

EduCienSis



MANUAL DEL PROGRAMADOR



ÍNDICE

	Pág.
1. Generalidades	2
2. Pantalla de Acceso al Sistema	3
3. Profesores	6
4. Secciones	15
5. Grupos	22
6. Alumnos	32
7. Unidades	48
8. Temas	54
9. Agregar Evaluaciones	61
10. Eliminar Evaluaciones	96
11. Ver/Modificar Evaluaciones	102
12. Textos	113
13. Imágenes	125
14. Vídeo/Sonido	129
15. Animación Flash	136
16. Selección de Unidades	143
17. Selección de Temas	145
18. Contenido	147
19. Ver Vídeo/Sonido	153
20. Ver Animaciones Flash	155
21. Evaluaciones	157

MANUAL DEL PROGRAMADOR

1. GENERALIDADES

El presente manual detalla la información técnica para que lo utilice el administrador, este manual presenta la información de diseño y desarrollo del sistema EduCienSis, el cual está organizado según se muestra en la figura 1.

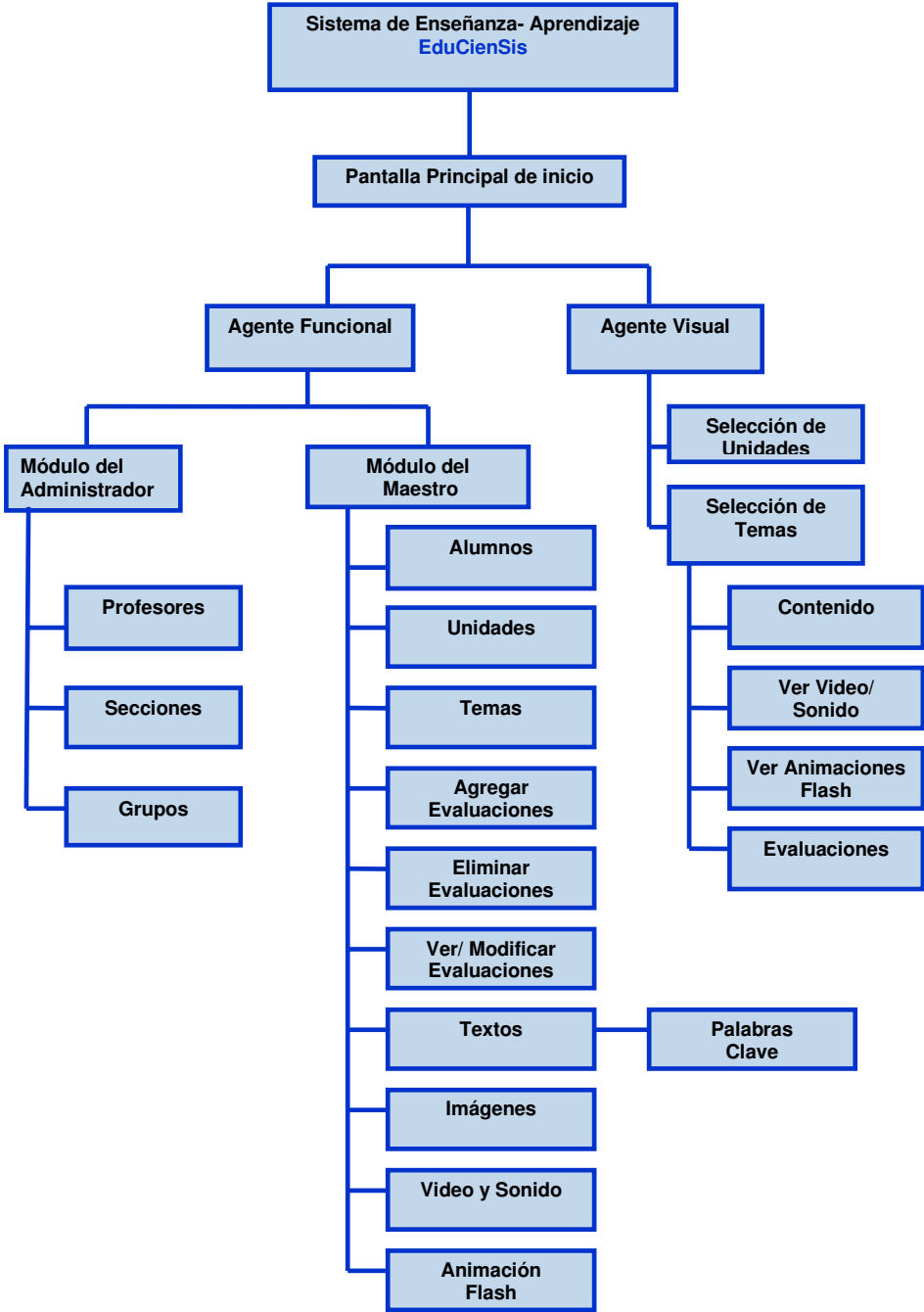


Figura 1: Diagrama Jerárquico de opciones.

A continuación se listan los elementos y codificación de cada una de las opciones anteriores, las cuales fueron elaboradas en Visual Basic .NET 2003, el cual viene integrado dentro de Visual Studio .NET 2003.

2. PANTALLA DE ACCESO AL SISTEMA

Nombre del Objeto: frmlogin

Código:

```
Imports System.Security.Cryptography
Imports System.Text
Imports System.IO
Imports System.Drawing.Drawing2D 'agregate
Public Class frmlogin
    Inherits System.Windows.Forms.Form

    Dim arrastrar As Boolean
    Dim pointMD, pointFM, pointNP As System.Drawing.Point
    Dim xDelta, yDelta As Integer

    Private Sub frmlogin_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        'Me.Refresh()
    End Sub
    Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox2.Click
        End
    End Sub
    Private Sub PictureBox1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox1.Click
        Dim My_Data As New DataSet
        Me.Enabled = False
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM usuarios WHERE login_us='" & txtlogin.Text & "'"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(My_Data, "MiTabla")
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            MessageBox.Show("Se ha producido la siguiente excepción: " & _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Me.Enabled = True
            Return
        End Try

        Dim Pwd As String
        Dim Tipo As Integer

        If My_Data.Tables("MiTabla").Rows.Count > 0 Then
            ID_Us_GLOBAL = My_Data.Tables("MiTabla").Rows(0).Item("id_usuario")
            ID_Nombre_Us_GLOBAL = Trim(My_Data.Tables("MiTabla").Rows(0).Item("nombre_us")) & _
                " " &
            Trim(My_Data.Tables("MiTabla").Rows(0).Item("apellido_us"))
            If ID_Us_GLOBAL > 1 Then
                '--DESENCRIPTAR
                Dim KEY() As Byte =
                Encoding.Default.GetBytes(Trim(My_Data.Tables(0).Rows(0).Item("p_key")))
```

```

        Dim IV() As Byte =
Encoding.Default.GetBytes(Trim(My_Data.Tables(0).Rows(0).Item("p_IV")))
        Dim textoEncriptado() As Byte =
Encoding.Default.GetBytes(Trim(My_Data.Tables(0).Rows(0).Item("pass_us")))

        Dim saDEnc As SymmetricAlgorithm = SymmetricAlgorithm.Create()
'Dim textoEncriptado() As Byte = Encoding.Default.GetBytes(txt_encrypt.Text)
Dim ms As New MemoryStream(textoEncriptado)
'Dim cto As ICryptoTransform = saDEnc.CreateDecryptor(saEnc.Key, saEnc.IV)
Dim cto As ICryptoTransform = saDEnc.CreateDecryptor(KEY, IV)
Dim mso As New MemoryStream
Dim cso As CryptoStream = New CryptoStream(mso, cto, CryptoStreamMode.Write)
cso.Write(ms.ToArray(), 0, ms.ToArray().Length)
cso.FlushFinalBlock()
Pwd = Encoding.Default.GetString(mso.ToArray())

'-- FIN DEENCRIPTAR
Else
Pwd = Trim(My_Data.Tables("MiTabla").Rows(0).Item("pass_us"))
End If

If Pwd = txtpwd.Text Then
'Comprobar si tiene permiso para entrar a esa area
Tipo = My_Data.Tables("MiTabla").Rows(0).Item("tipo_usuario")
'-- PERMISOS
If Tipo <> 1 Then
Definir_Permisos(My_Data.Tables("MiTabla").Rows(0).Item("id_grupo"))
End If

If Tipo = 1 Or Tipo = 2 Then
'Puede ir al administrador
Me.Cursor = Windows.Forms.Cursors.Default
Dim j As New frm_admin_panel
j.Show()
Me.Enabled = True
Me.Hide()
End If
If Tipo = 3 Then
'Puede ir a la aplicacion
Dim Sec_X As Integer
Sec_X = Trim(My_Data.Tables("MiTabla").Rows(0).Item("seccion"))

If Sec_X = 0 Then
MsgBox("Este alumno no ha sido asignado a ninguna sección" & vbCrLf & _
"Consulte con el administrador", MsgBoxStyle.Information, "EduCienSis")
Else
With Adapter.SelectCommand
.CommandText = "SELECT * FROM secciones WHERE id_seccion=" & Sec_X
.Connection = MyCon
End With

Try
MyCon.Open()
Adapter.Fill(My_Data, "Sec_XX")
MyCon.Close()
Catch ex As Exception
MyCon.Close()
MessageBox.Show("Se ha producido la siguiente excepción: " & _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Me.Enabled = True
Return
End Try

ID_Prof_GLOBAL = My_Data.Tables("Sec_XX").Rows(0).Item("id_maestro")

Me.Cursor = Windows.Forms.Cursors.Default
Dim j As New frm_app_inicio
j.Show()
Me.Enabled = True
Me.Hide()

```

```

        End If

        End If
    Else
        Me.Cursor = Windows.Forms.Cursors.Default
        MsgBox("password invalido " & txtlogin.Text, MsgBoxStyle.Exclamation,
"advertencia")
    End If

    Else
        Me.Enabled = True
        Me.Cursor = Windows.Forms.Cursors.Default
        MsgBox("No existe el usuario " & txtlogin.Text, MsgBoxStyle.Exclamation,
"advertencia")
    End If
    Me.Enabled = True
End Sub

Private Sub frmlogin_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles MyBase.Paint
End Sub

Private Sub frmlogin_MouseDown(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles MyBase.MouseDown
    arrastrar = True
    pointMD = MousePosition
    pointFM = Me.Location
    xDelta = pointMD.X - pointFM.X
    yDelta = pointMD.Y - pointFM.Y
End Sub
Private Sub frmlogin_MouseMove(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles MyBase.MouseMove
    If arrastrar Then
        pointNP.X = MousePosition.X - xDelta
        pointNP.Y = MousePosition.Y - yDelta
        Me.Location = pointNP
    End If
End Sub
Private Sub frmlogin_MouseUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles MyBase.MouseUp
    arrastrar = False
End Sub
Private Sub txtpwd_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles txtpwd.KeyUp
    If e.KeyCode = Keys.Enter Then
        Me.PictureBox1_Click(sender, e)
    End If
End Sub
Private Function Definir_Permisos(ByVal ID_Grp As Integer)
Dim My_Data As New DataSet
Me.Cursor = Windows.Forms.Cursors.WaitCursor
With Adapter.SelectCommand
    .CommandText = "SELECT * FROM permisos WHERE id_grupo=" & ID_Grp
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(My_Data, "perms")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción: " _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return Nothing
End Try
If My_Data.Tables(0).Rows(0).Item("agrega") = 1 Then
    PERM_ADD = True
Else
    PERM_ADD = False
End If

```

```

If My_Data.Tables(0).Rows(0).Item("actualiza") = 1 Then
    PERM_UPD = True
Else
    PERM_UPD = False
End If

If My_Data.Tables(0).Rows(0).Item("elimina") = 1 Then
    PERM_DEL = True
Else
    PERM_DEL = False
End If

If My_Data.Tables(0).Rows(0).Item("examen") = 1 Then
    PERM_TEST = True
Else
    PERM_TEST = False
End If

If My_Data.Tables(0).Rows(0).Item("nota_c") = 1 Then
    PERM_NOTA = True
Else
    PERM_NOTA = False
End If

    End Function
End Class

```

3. PROFESORES

Nombre del Objeto: frm_admin_usr_prof

Código

```

Imports System.Security.Cryptography
Imports System.Text
Imports System.IO
Public Class frm_admin_usr_prof
    Inherits System.Windows.Forms.Form
    Dim Ya_Upd_Del As Boolean
    Dim Ya_Del_Upd As Boolean
    Dim Ya_Insert_Upd As Boolean
    Dim Ya_Insert_Del As Boolean
    Dim Ini_Upd, Ini_Del As Boolean
    Dim inicio As Boolean
    '--- PARA EL PASSWORD
    Dim P_Key, P_IV As String

```

Windows Form Designer generated code

```

Private Function Cargar_Datos(ByVal id As Integer)
    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM usuarios WHERE id_usuario=" & id
        .Connection = MyCon
    End With
    Adapter.Fill(MyDataSet, "SelMaestros")
    txt_prof_nombre_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("nombre_us"))
    txt_prof_log_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("login_us"))

    Dim id_grp As Integer
    id_grp = MyDataSet.Tables(0).Rows(0).Item("id_grupo")

    Dim i, indexreal, pos As Integer
    Dim id_temp As String
    For i = 0 To (cmb_grp_upd.Items.Count() - 1)
        cmb_grp_upd.SelectedIndex = i
        pos = InStrRev(cmb_grp_upd.SelectedItem, " ")
        id_temp = Mid(cmb_grp_upd.SelectedItem, pos + 1, cmb_grp_upd.SelectedItem.Length)

```

```

        If id_temp = id_grp Then
            indexreal = i
        End If
    Next i
    cmb_grp_upd.SelectedIndex = indexreal

End Function
Private Sub Tab_Prof_Upd_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Prof_Upd.Paint
    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    If Ya_Del_Upd Or Ya_Insert_Upd Or Ini_Upd Then
        CB_prof_update.Items.Clear()
        txt_prof_nombre_upd.Text = ""
        txt_prof_log_upd.Text = ""
        Dim MyDataSet As New DataSet
        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM usuarios WHERE tipo_usuario=2"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "SelMaestros")
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        Dim indice, first As Integer
        Dim nombre As String

        If MyDataSet.Tables("SelMaestros").Rows.Count > 0 Then
            lbl_NoData_Upd.Text = ""
            Dim i As Integer
            inicio = True
            For i = 0 To MyDataSet.Tables("SelMaestros").Rows.Count - 1
                nombre = MyDataSet.Tables("SelMaestros").Rows(i).Item("nombre_us")
                indice = MyDataSet.Tables("SelMaestros").Rows(i).Item("id_usuario")
                CB_prof_update.Items.Add(nombre & SPACIOS & indice)
            Next

            CB_prof_update.SelectedIndex = 0

            Dim pos As Integer
            Dim cad As String

            pos = InStrRev(CB_prof_update.SelectedItem, " ")
            cad = Mid(CB_prof_update.SelectedItem, pos + 1,
                CB_prof_update.SelectedItem.Length)

            Cargar_Datos(cad)
            inicio = False

        Else
            lbl_NoData_Upd.Text = "NO HAY NINGUN REGISTRO QUE ACTUALIZAR"
        End If

        Ya_Del_Upd = False
        Ya_Insert_Upd = False
        Ini_Upd = False
    End If
    Me.Cursor = Windows.Forms.Cursors.Default
End Sub
Private Sub CB_prof_update_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles CB_prof_update.SelectedIndexChanged
    If inicio = False Then
        Dim pos As Integer
        Dim cad As String
    End If

```



```

pos = InStrRev(CB_prof_update.SelectedItem, " ")
cad = Mid(CB_prof_update.SelectedItem, pos + 1, CB_prof_update.SelectedItem.Length)

Cargar_Datos(cad)
End If
End Sub
Private Sub chk_us_upd_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_us_upd.CheckedChanged
If chk_us_upd.Checked = True Then
txt_prof_passn1_upd.Enabled = True
txt_prof_passn2_upd.Enabled = True
Else
txt_prof_passn1_upd.Enabled = False
txt_prof_passn2_upd.Enabled = False
End If
End Sub
Private Sub Tab_Prof_Del_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Prof_Del.Paint

If Ya_Upd_Del Or Ya_Insert_Del Or Ini_Del Then
Me.Cursor = Windows.Forms.Cursors.WaitCursor
cmb_prof_del.Items.Clear()

Dim MyDataSet As New DataSet

With Adapter.SelectCommand
.CommandText = "SELECT * FROM usuarios WHERE tipo_usuario=2"
.Connection = MyCon
End With

Try
MyCon.Open()
Adapter.Fill(MyDataSet, "Prof")
MyCon.Close()
Catch ex As Exception
MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

If MyDataSet.Tables("Prof").Rows.Count > 0 Then
lbl_NoData_Del.Text = ""
Dim indice, first As Integer
Dim nombre As String

Dim i As Integer
For i = 0 To MyDataSet.Tables("Prof").Rows.Count - 1
nombre = MyDataSet.Tables("Prof").Rows(i).Item("nombre_us")
indice = MyDataSet.Tables("Prof").Rows(i).Item("id_usuario")
cmb_prof_del.Items.Add(nombre & SPACIOS & indice)
Next
cmb_prof_del.SelectedIndex = cmb_prof_del.Items.Count - 1
Else
lbl_NoData_Del.Text = "NO HAY NINGUN REGISTRO QUE ELIMINAR"
End If

Ya_Upd_Del = False
Ya_Insert_Del = False
Ini_Del = False

Me.Cursor = Windows.Forms.Cursors.Default
End If
End Sub
Private Sub frm_admin_usr_prof_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
Dim z As System.Drawing.Point
z.X = Pos_X_admin_panel
z.Y = Pos_Y_admin_panel

Me.Location = z

```

```

Ya_Upd_Del = False
Ya_Del_Upd = False
Ya_Insert_Upd = False
Ya_Insert_Del = False
Ini_Upd = True
Ini_Del = True

Me.Cursor = Windows.Forms.Cursors.WaitCursor

With Adapter.SelectCommand
    .Connection = MyCon
    .CommandText = "SELECT G.id_grupo, G.nombre_grupo FROM " & _
        "grupos G, permisos P WHERE P.modulo = 0 AND P.id_grupo = G.id_grupo"
End With

cmb_grp_add.Items.Clear()
cmb_grp_upd.Items.Clear()

Dim MyDataSet As New DataSet

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Grupos")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    Me.Cursor = Windows.Forms.Cursors.Default
    MessageBox.Show("Se ha producido la siguiente excepción:" & _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error", MessageBoxButtons.OK)
    Return
End Try

If MyDataSet.Tables("Grupos").Rows.Count > 0 Then
    Dim i As Integer
    Dim Nom_Grp As String
    Dim ID_Grp As Integer

    For i = 0 To MyDataSet.Tables("Grupos").Rows.Count - 1
        ID_Grp = MyDataSet.Tables("Grupos").Rows(i).Item("id_grupo")
        Nom_Grp = Trim(MyDataSet.Tables("Grupos").Rows(i).Item("nombre_grupo"))
        cmb_grp_add.Items.Add(Nom_Grp & SPACIOS & ID_Grp)
        cmb_grp_upd.Items.Add(Nom_Grp & SPACIOS & ID_Grp)
    Next
    cmb_grp_add.SelectedIndex = 0
Else
    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("No hay grupos para asignar usuarios de tipo maestro" & vbCrLf & _
        "Consulte con el administrador", MsgBoxStyle.Critical, "EduCienSis")
    Me.Close()
End If

Me.Cursor = Windows.Forms.Cursors.Default
End Sub
Private Sub frm_admin_usr_prof_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed
    Panel_open = False
End Sub
Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click
    If Trim(txt_prof_nombre.Text) = "" Then
        MsgBox("Nombre del Maestro vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_prof_nombre.Focus()
        Return
    End If
    If Trim(txt_prof_login.Text) = "" Then
        MsgBox("Usuario del Maestro vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_prof_login.Focus()
        Return
    End If
    If Trim(txt_prof_pwd.Text) = "" Then
        MsgBox("contraseña del Maestro vacia", MsgBoxStyle.Exclamation, "Validación")
        txt_prof_pwd.Focus()
        Return
    End If

```

```

End If
If Trim(txt_prof_pwd2.Text) <> Trim(txt_prof_pwd.Text) Then
    MsgBox("Confirmación de contraseña: No coinciden las contraseñas",
MsgBoxStyle.Exclamation, "Validación")
    Return
End If
If Existe_Login(Trim(txt_prof_login.Text)) Then
    MsgBox("Ya existe un registro con el mismo usuario que ud ha elegido" & _
vbCrLf & "Por favor digite uno distinto", MsgBoxStyle.Exclamation,
"Validación")
    Return
End If
'---Fin Validar---
Me.Cursor = Windows.Forms.Cursors.WaitCursor
Dim name, login, pass As String
name = Trim(txt_prof_nombre.Text)
login = Trim(txt_prof_login.Text)
pass = Trim(txt_prof_pwd.Text)

Dim id_grp, Pos_grp As Integer

Pos_grp = InStrRev(cmb_grp_add.SelectedItem, " ")
id_grp = Mid(cmb_grp_add.SelectedItem, Pos_grp + 1, cmb_grp_add.SelectedItem.Length)

Dim pass_us As String
pass_us = Encriptar(pass)

With Adapter.InsertCommand
    .Connection = MyCon
    .CommandText = "INSERT INTO usuarios (tipo_usuario, nombre_us, " & _
"apellido_us, login_us, pass_us, seccion, id_grupo, p_key, p_IV) VALUES (2,'" &
name & _
"'," & login & "','" & pass_us & "', 0, " & id_grp & "', '" & P_Key & "','" &
P_IV & "')"
End With

Try
    MyCon.Open()
    Adapter.InsertCommand.ExecuteReader()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" & _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

With Adapter.SelectCommand
    .Connection = MyCon
    .CommandText = "SELECT MAX(id_usuario) AS XMAXX FROM usuarios"
End With

Dim MyDataSet As New DataSet

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Ult")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" & _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error", MessageBoxButtons.OK)
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

Dim max_id_us As Integer
max_id_us = MyDataSet.Tables("Ult").Rows(0).Item("XMAXX")

Dim N_U1, N_U2, N_U3 As String
N_U1 = "Así somos los seres vivos"
N_U2 = "Vivamos sanos y felices"

```

```

N_U3 = "Los seres vivos y su medio ambiente"

With Adapter.InsertCommand
    .Connection = MyCon
    .CommandText = "INSERT INTO unidad (nombre_unidad, orden, id_usuario) VALUES ('" &
N_U1 & "', 1, " & max_id_us & ")"
End With

Try
    MyCon.Open()
    Adapter.InsertCommand.ExecuteReader()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

With Adapter.InsertCommand
    .Connection = MyCon
    .CommandText = "INSERT INTO unidad (nombre_unidad, orden, id_usuario) VALUES ('" &
N_U2 & "', 2, " & max_id_us & ")"
End With

Try
    MyCon.Open()
    Adapter.InsertCommand.ExecuteReader()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

With Adapter.InsertCommand
    .Connection = MyCon
    .CommandText = "INSERT INTO unidad (nombre_unidad, orden, id_usuario) VALUES ('" &
N_U3 & "', 3, " & max_id_us & ")"
End With

Try
    MyCon.Open()
    Adapter.InsertCommand.ExecuteReader()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

Me.Cursor = Windows.Forms.Cursors.Default
MsgBox("Sus datos han sido introducidos Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")
txt_prof_nombre.Text = ""
txt_prof_login.Text = ""
txt_prof_pwd.Text = ""
txt_prof_pwd2.Text = ""

Ya_Insert_Upd = True
Ya_Insert_Del = True

End Sub
Private Sub B_Actualizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Actualizar.Click
    If CB_prof_update.Items.Count > 0 Then
        txt_prof_nombre_upd.Text = Trim(txt_prof_nombre_upd.Text)

```

```

txt_prof_log_upd.Text = Trim(txt_prof_log_upd.Text)
txt_prof_passn1_upd.Text = Trim(txt_prof_passn1_upd.Text)
txt_prof_passn2_upd.Text = Trim(txt_prof_passn2_upd.Text)

If txt_prof_nombre_upd.Text = "" Then
    MsgBox("Nombre del Maestro vacio", MsgBoxStyle.Exclamation, "Validación")
    txt_prof_nombre_upd.Focus()
    Return
End If
If txt_prof_log_upd.Text = "" Then
    MsgBox("Login del Maestro vacio", MsgBoxStyle.Exclamation, "Validación")
    txt_prof_log_upd.Focus()
    Return
End If
If chk_us_upd.Checked = True Then
    If txt_prof_passn1_upd.Text = "" Then
        MsgBox("No se permiten password vacios", MsgBoxStyle.Exclamation,
"Validación")
        txt_prof_passn1_upd.Focus()
        Return
    End If
    If txt_prof_passn1_upd.Text <> txt_prof_passn2_upd.Text Then
        MsgBox("No coinciden el Nuevo Password con la Confirmación del Nuevo
Password", MsgBoxStyle.Exclamation, "Validación")
        Return
    End If
End If
'---Fin Validar---

Me.Cursor = Windows.Forms.Cursors.WaitCursor
Dim id_us, id_grp As String
Dim pos As Integer

pos = InStrRev(CB_prof_update.SelectedItem, " ")
id_us = Mid(CB_prof_update.SelectedItem, pos + 1,
CB_prof_update.SelectedItem.Length)

pos = InStrRev(cmb_grp_upd.SelectedItem, " ")
id_grp = Mid(cmb_grp_upd.SelectedItem, pos + 1, cmb_grp_upd.SelectedItem.Length)

Dim nombre, login, pass As String
nombre = txt_prof_nombre_upd.Text
login = txt_prof_log_upd.Text
pass = txt_prof_passn1_upd.Text
Dim cad As String
If chk_us_upd.Checked = True Then
    pass = Encriptar(pass)
    cad = "UPDATE usuarios SET nombre_us='" & nombre & "', login_us='" & login &
"', pass_us='" & pass & "', id_grupo='" & id_grp & "', p_key='" & P_Key & "', p_IV='" & P_IV & "'
WHERE id_usuario=" & id_us
Else
    cad = "UPDATE usuarios SET nombre_us='" & nombre & "', login_us='" & login &
"', id_grupo=" & id_grp & " WHERE id_usuario=" & id_us
End If

With Adapter.UpdateCommand
    .CommandText = cad
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.UpdateCommand.ExecuteReader()
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

Me.Cursor = Windows.Forms.Cursors.Default

```

```

        Cargar_Datos(id_us)
        txt_prof_passn1_upd.Text = ""
        txt_prof_passn2_upd.Text = ""
        CB_prof_update.Items.Item(CB_prof_update.SelectedIndex) = nombre & SPACIOS & id_us
        MsgBox("Sus datos han sido Actualizados Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")
        '----variable de entorno
        Ya_Upd_Del = True
    End If

    End Sub
    Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
        If cmb_prof_del.Items.Count > 0 Then
            Dim resp
            'resp = MsgBox("¿Realmente desea Elimar este registro?", MsgBoxStyle.YesNo,
"Elimación de Registros")
            resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
            If resp = 6 Then
                Dim id_us As String
                Dim pos As Integer

                pos = InStrRev(cmb_prof_del.SelectedItem, " ")
                id_us = Mid(cmb_prof_del.SelectedItem, pos + 1,
cmb_prof_del.SelectedItem.Length)

                With Adapter.SelectCommand
                    .Connection = MyCon
                    .CommandText = "SELECT T.id_tema FROM temas T, unidad Un WHERE " & _
"T.id_unidad = Un.id_unidad AND Un.id_usuario=" & id_us
                End With

                Dim MyDataSet As New DataSet

                Try
                    MyCon.Open()
                    Adapter.Fill(MyDataSet, "temas")
                    MyCon.Close()
                Catch ex As Exception
                    MyCon.Close()
                    MessageBox.Show("Función Existe_Login: Se ha producido la siguiente
excepción:" _
                        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error",
MessageBoxButtons.OK)
                    Me.Cursor = Windows.Forms.Cursors.Default
                    Return
                End Try

                If MyDataSet.Tables("temas").Rows.Count > 0 Then
                    MsgBox("No se puede eliminar este maestro debido a que tiene temas
asociados" _
                        , MsgBoxStyle.Exclamation, "EduCienSis")
                    Return
                End If

                With Adapter.SelectCommand
                    .Connection = MyCon
                    .CommandText = "SELECT S.id_seccion FROM secciones S, usuarios U WHERE " &
_
                    "s.id_maestro = U.id_usuario AND U.id_usuario =" & id_us
                End With

                Try
                    MyCon.Open()
                    Adapter.Fill(MyDataSet, "secX")
                    MyCon.Close()
                Catch ex As Exception
                    MyCon.Close()
                    MessageBox.Show("Función Existe_Login: Se ha producido la siguiente
excepción:" _
                        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error",
MessageBoxButtons.OK)

```

```

        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    If MyDataSet.Tables("secX").Rows.Count > 0 Then
        MsgBox("No se puede eliminar este maestro debido a que tiene secciones
asociadas" _
        , MsgBoxStyle.Exclamation, "EduCienSis")
        Return
    End If

    With Adapter.DeleteCommand
        .CommandText = "DELETE FROM unidad WHERE id_usuario=" & id_us
        .Connection = MyCon
    End With
    Try
        MyCon.Open()
        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    With Adapter.DeleteCommand
        .CommandText = "DELETE FROM usuarios WHERE id_usuario=" & id_us
        .Connection = MyCon
    End With
    Try
        MyCon.Open()
        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    cmb_prof_del.Items.Remove(cmb_prof_del.SelectedItem)
    cmb_prof_del.SelectedIndex = cmb_prof_del.Items.Count - 1

    '----Variables de entorno
    Ya_Del_Upd = True
End If

End Sub
Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox2.Click
    Panel_open = False
    Me.Close()
End Sub
Private Sub Tab_Prof_Upd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Tab_Prof_Upd.Click

End Sub
Private Sub Tab_Prof_Del_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Tab_Prof_Del.Click

End Sub
Private Sub cmb_prof_del_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_prof_del.SelectedIndexChanged

End Sub
Private Function Existe_Login(ByVal Login As String)

    With Adapter.SelectCommand
        .Connection = MyCon

```

```

        .CommandText = "SELECT * FROM usuarios WHERE login_us='" & Login & "'"
    End With

    Dim MyDataSet As New DataSet

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "Login")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Función Existe_Login: Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error", MessageBoxButtons.OK)
        Me.Cursor = Windows.Forms.Cursors.Default
        Return True
    End Try
    If MyDataSet.Tables("Login").Rows.Count > 0 Then
        Return True
    Else
        Return False
    End If
End Function
Private Function Encriptar(ByVal txt_pass As String)
    Dim saEnc As SymmetricAlgorithm
    Dim dataorg() As Byte

    dataorg = Encoding.Default.GetBytes(txt_pass)

    saEnc = SymmetricAlgorithm.Create()
    Dim ct As ICryptoTransform

    ct = saEnc.CreateEncryptor()

    'System.Security.Cryptography.
    Dim ms As MemoryStream = New MemoryStream
    Dim cs As CryptoStream = New CryptoStream(ms, ct, CryptoStreamMode.Write)
    cs.Write(dataorg, 0, dataorg.Length)
    cs.FlushFinalBlock()

    Dim cripto As String
    cripto = Encoding.Default.GetString(ms.ToArray()).Replace("'", "'")
    P_Key = Encoding.Default.GetString((saEnc.Key)).Replace("'", "'")
    P_IV = Encoding.Default.GetString((saEnc.IV)).Replace("'", "'")

    Return cripto
End Function
End Class

```

4. SECCIONES

Nombre del objeto: frm_admin_secciones

Código:

```

Public Class frm_admin_usr_secciones
    Inherits System.Windows.Forms.Form
    Dim Ya_Insert_Upd As Boolean
    Dim Ya_Insert_Del As Boolean
    Dim Ya_Del_Upd As Boolean
    'Dim Ya_Update_Ins As Boolean
    Dim Ya_Update_Del As Boolean
    Dim Ya_Insert_View As Boolean
    Dim Ya_Update_View As Boolean
    Dim Ya_Del_View As Boolean
    Dim Ini_Ins, Ini_Upd, Ini_Del, Ini_View As Boolean
    Dim Inicio As Boolean
    Dim Inicio_View As Boolean

```

Windows Form Designer generated code


```

Private Sub frm_admin_usr_secciones_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    Dim z As System.Drawing.Point
    z.X = Pos_X_admin_panel
    z.Y = Pos_Y_admin_panel

    Me.Location = z
    Ya_Insert_Upd = False
    Ya_Insert_Del = False
    Ya_Del_Upd = False
    'Ya_Update_Ins = False
    Ya_Update_Del = False

    Ya_Insert_View = False
    Ya_Update_View = False
    Ya_Del_View = False

    Ini_Ins = True
    Ini_Upd = True
    Ini_Del = True
    Ini_View = True
End Sub
Private Sub frm_admin_usr_secciones_Closed(ByVal sender As Object, ByVal e As
System.EventArgs) Handles MyBase.Closed
    Panel_open = False
End Sub
Private Sub Tab_Secciones_Actualizar_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Secciones_Actualizar.Paint

If Ya_Insert_Upd Or Ya_Del_Upd Or Ini_Upd Then
    Inicio = True
    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim MyDataset As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM secciones WHERE id_seccion > 0"
        .Connection = MyCon
    End With

    Adapter.Fill(MyDataset, "Secciones")

    Dim i As Integer
    Dim indice As Integer
    Dim nombre As String
    Cmb_Secc_Upd.Items.Clear()
    Cmb_Secc_Maestro_Upd.Items.Clear()
    txt_secc_nombre_upd.Text = ""
    If MyDataset.Tables(0).Rows.Count > 0 Then
        lbl_nosecc2.Text = ""
        For i = 0 To MyDataset.Tables(0).Rows.Count - 1
            nombre = MyDataset.Tables(0).Rows(i).Item("nombre_secc")
            indice = MyDataset.Tables(0).Rows(i).Item("id_seccion")
            Cmb_Secc_Upd.Items.Add(nombre & SPACIOS & indice)
        Next

        Cmb_Secc_Upd.SelectedIndex = 0

        '-----Los Maestros
        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM usuarios WHERE tipo_usuario=2"
            .Connection = MyCon
        End With
        Adapter.Fill(MyDataset, "Maestros")

        Inicio = True
        For i = 0 To MyDataset.Tables("Maestros").Rows.Count - 1
            nombre = MyDataset.Tables("Maestros").Rows(i).Item("nombre_us")
            indice = MyDataset.Tables("Maestros").Rows(i).Item("id_usuario")
            Cmb_Secc_Maestro_Upd.Items.Add(nombre & SPACIOS & indice)
        Next
        Cmb_Secc_Maestro_Upd.SelectedIndex = Cmb_Secc_Maestro_Upd.Items.Count - 1
        Cargar_Datos_Secc()

```

```

        Me.Cursor = Windows.Forms.Cursors.Default
        Ini_Upd = False
        Inicio = False
        Ya_Insert_Upd = False
        Ya_Del_Upd = False
    Else
        lbl_nosecc2.Text = "NO HAY SECCIONES QUE ACTUALIZAR"
    End If
End If
End Sub
Private Function Cargar_Datos_Secc()
    Dim MyDataset As New DataSet
    Dim pos_sec As String
    Dim id_sec As Integer

    pos_sec = InStrRev(Cmb_Secc_Upd.SelectedItem, " ")
    id_sec = Mid(Cmb_Secc_Upd.SelectedItem, pos_sec + 1, Cmb_Secc_Upd.SelectedItem.Length)

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM secciones WHERE id_seccion = " & id_sec.ToString
        .Connection = MyCon
    End With
    Adapter.Fill(MyDataset)
    txt_secc_nombre_upd.Text = Trim(MyDataset.Tables(0).Rows(0).Item("nombre_secc"))
    Dim id_maestro As Integer
    id_maestro = MyDataset.Tables(0).Rows(0).Item("id_maestro")

    If id_maestro.ToString = "" Or id_maestro = 0 Then
        Cmb_Secc_Maestro_Upd.SelectedIndex = (Cmb_Secc_Maestro_Upd.Items.Count() - 1)
    Else
        Dim i, indexreal, pos As Integer
        Dim id As String
        indexreal = Cmb_Secc_Maestro_Upd.Items.Count - 1
        For i = 0 To (Cmb_Secc_Maestro_Upd.Items.Count() - 1)
            Cmb_Secc_Maestro_Upd.SelectedIndex = i

            pos = InStrRev(Cmb_Secc_Maestro_Upd.SelectedItem, " ")
            id = Mid(Cmb_Secc_Maestro_Upd.SelectedItem, pos + 1,
                Cmb_Secc_Maestro_Upd.SelectedItem.Length)

            If id = id_maestro Then
                indexreal = i
            End If
        Next i
        Cmb_Secc_Maestro_Upd.SelectedIndex = indexreal
    End If
End Function
Private Sub Cmb_Secc_Upd_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_Secc_Upd.SelectedIndexChanged
    If Inicio = False Then
        Me.Cursor = System.Windows.Forms.Cursors.WaitCursor
        Cargar_Datos_Secc()
        Me.Cursor = System.Windows.Forms.Cursors.Default
    End If
End Sub
Private Sub Tab_Secciones_Eliminar_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Secciones_Eliminar.Paint

    If Ya_Update_Del Or Ya_Insert_Del Or Ini_Del Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim MyDataset As New DataSet
        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM secciones WHERE id_seccion > 0"
            .Connection = MyCon
        End With
        Adapter.Fill(MyDataset, "Secciones")
        Dim i As Integer
        Dim indice As Integer
        Dim nombre As String
        cmb_secc_del.Items.Clear()
        If MyDataset.Tables(0).Rows.Count > 0 Then
            lbl_nosecc.Text = ""

```

```

For i = 0 To MyDataset.Tables(0).Rows.Count - 1
    nombre = MyDataset.Tables(0).Rows(i).Item("nombre_secc")
    indice = MyDataset.Tables(0).Rows(i).Item("id_seccion")
    cmb_secc_del.Items.Add(nombre & SPACIOS & indice)
Next

cmb_secc_del.SelectedIndex = cmb_secc_del.Items.Count - 1

Ini_Del = False
Ya_Update_Del = False
Ya_Insert_Del = False
Else
    lbl_nosecc.Text = "NO HAY SECCIONES QUE ELIMINAR"
End If

Me.Cursor = Windows.Forms.Cursors.Default
End If
End Sub

Private Sub Tab_Secciones_Agregar_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Secciones_Agregar.Paint
    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    If Ini_Ins Then
        Dim MyDataSet As New DataSet
        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM usuarios WHERE tipo_usuario=2"
            .Connection = MyCon
        End With
        Adapter.Fill(MyDataSet, "SelMaestros")

        Dim indice As Integer
        Dim nombre As String
        cmb_secc_maestro.Items.Clear()
        Dim i As Integer
        For i = 0 To MyDataSet.Tables("SelMaestros").Rows.Count - 1
            nombre = MyDataSet.Tables("SelMaestros").Rows(i).Item("nombre_us")
            indice = MyDataSet.Tables("SelMaestros").Rows(i).Item("id_usuario")
            cmb_secc_maestro.Items.Add(nombre & SPACIOS & indice)
        Next i
        cmb_secc_maestro.SelectedIndex = cmb_secc_maestro.Items.Count - 1
        Ini_Ins = False
    End If
    Me.Cursor = Windows.Forms.Cursors.Default

End Sub

Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Panel_open = False
    Me.Close()
End Sub

Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click

    If txt_secc_add.Text = "" Then
        MsgBox("Nombre de la Sección Vacía", MsgBoxStyle.OKOnly, "Validación")
        txt_secc_add.Focus()
        Return
    End If

    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    Dim SecName As String
    Dim ID_Master As String
    SecName = Trim(txt_secc_add.Text)
    Dim pos As Integer

    pos = InStrRev(cmb_secc_maestro.SelectedItem, " ")
    ID_Master = Mid(cmb_secc_maestro.SelectedItem, pos + 1,
cmb_secc_maestro.SelectedItem.Length)

```

```

        With Adapter.InsertCommand
            .CommandText = "INSERT INTO secciones (nombre_secc, id_maestro) VALUES('" & SecName
& "'", " & ID_Master & ")"
            .Connection = MyCon
        End With

    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    txt_secc_add.Text = ""

    Ya_Insert_Upd = True
    Ya_Insert_Del = True
    Ya_Insert_View = True

    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("Sus datos han sido introducidos Exitosamente", MsgBoxStyle.OKOnly,
"Confirmación de Datos")

End Sub
Private Sub B_Actualizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Actualizar.Click
    If Cmb_Secc_Upd.Items.Count > 0 Then
        If txt_secc_nombre_upd.Text = "" Then
            MsgBox("Nombre de la Sección vacío", MsgBoxStyle.OKOnly, "Validación")
            txt_secc_nombre_upd.Focus()
            Return
        End If

        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim pos_sec, name_sec As String
        Dim id_sec, id_maestro As Integer

        pos_sec = InStrRev(Cmb_Secc_Upd.SelectedItem, " ")
        id_sec = Mid(Cmb_Secc_Upd.SelectedItem, pos_sec + 1,
Cmb_Secc_Upd.SelectedItem.Length)

        pos_sec = InStrRev(Cmb_Secc_Maestro_Upd.SelectedItem, " ")
        id_maestro = Mid(Cmb_Secc_Maestro_Upd.SelectedItem, pos_sec + 1,
Cmb_Secc_Maestro_Upd.SelectedItem.Length)

        name_sec = txt_secc_nombre_upd.Text
        Dim cad As String
        cad = "UPDATE secciones SET nombre_secc='" & name_sec & "'", id_maestro=" &
id_maestro & " WHERE id_seccion=" & id_sec
        With Adapter.UpdateCommand
            .CommandText = cad
            .Connection = MyCon
        End With
    Try
        MyCon.Open()
        Adapter.UpdateCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try
    Cmb_Secc_Upd.SelectedText = name_sec & SPACIOS & id_sec

    Dim Index As Integer

```

```

Index = Cmb_Secc_Upd.SelectedIndex
Cmb_Secc_Upd.Items.RemoveAt (Index)
Cmb_Secc_Upd.Items.Insert (Index, name_secc & SPACIOS & id_sec)
Cmb_Secc_Upd.SelectedIndex = Index

'Ya_Update_Ins = True
Ya_Update_Del = True
Ya_Update_View = True
Me.Cursor = Windows.Forms.Cursors.Default
MsgBox("Datos actualizados exitosamente", MsgBoxStyle.OKOnly, "Actualización de
datos")
Me.Enabled = True
End If
End Sub
Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
If cmb_secc_del.Items.Count > 0 Then
Dim resp
resp = MsgBox("¿Realmente desea Eliminar este registro?", MsgBoxStyle.YesNo,
"Eliminación de Registros")

If resp = 6 Then
Dim id_us As String
Dim pos As Integer

pos = InStrRev(cmb_secc_del.SelectedItem, " ")
id_us = Mid(cmb_secc_del.SelectedItem, pos + 1,
cmb_secc_del.SelectedItem.Length)

Dim MyDataset As New DataSet

With Adapter.SelectCommand
.CommandText = "SELECT COUNT(*) as cuenta FROM usuarios WHERE seccion=" &
id_us
.Connection = MyCon
End With

Try
MyCon.Open()
Adapter.Fill(MyDataset, "XCuentaX")
MyCon.Close()
Catch ex As Exception
MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

If MyDataset.Tables("XCuentaX").Rows(0).Item("cuenta") > 0 Then
MessageBox("No se puede eliminar la sección, Hay alumnos inscritos en dicha
sección", MsgBoxStyle.Information, "EduCienSys")
Return
End If

With Adapter.DeleteCommand
.CommandText = "DELETE FROM secciones WHERE id_seccion=" & id_us
.Connection = MyCon
End With
Try
MyCon.Open()
Adapter.DeleteCommand.ExecuteNonQuery()
MyCon.Close()
Catch ex As Exception
MyCon.Close()
MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

cmb_secc_del.Items.Remove(cmb_secc_del.SelectedItem)
cmb_secc_del.SelectedIndex = 0
'----Variables de entorno

```

```

        Ya_Del_Upd = True
        Ya_Del_View = True
    End If

End If

End Sub

Private Sub Tab_Secciones_Ver_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Secciones_Ver.Paint
    If Ya_Insert_View Or Ya_Update_View Or Ya_Del_View Or Ini_View Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        cmb_alum_del.Items.Clear()

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM secciones WHERE id_seccion > 0"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "Secciones")
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        Dim indice, first As Integer
        Dim nombre As String
        Inicio_View = True
        Dim i As Integer
        For i = 0 To MyDataSet.Tables("Secciones").Rows.Count - 1
            nombre = MyDataSet.Tables("Secciones").Rows(i).Item("nombre_secc")
            indice = MyDataSet.Tables("Secciones").Rows(i).Item("id_seccion")
            cmb_alum_del.Items.Add(nombre & SPACIOS & indice)
        Next
        cmb_alum_del.SelectedIndex = 0

        cargar_datos_view()
        Inicio_View = False

        Ya_Insert_View = False
        Ya_Update_View = False
        Ya_Del_View = False
        Ini_View = False
        Me.Cursor = Windows.Forms.Cursors.Default
    End If
End Sub

Private Sub cmb_alum_del_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_alum_del.SelectedIndexChanged

    If Inicio_View = False Then
        cargar_datos_view()
    End If

End Sub

Private Function cargar_datos_view()
    Dim pos_x As Integer
    Dim id_seccion As String

    pos_x = InStrRev(cmb_alum_del.SelectedItem, " ")
    id_seccion = Mid(cmb_alum_del.SelectedItem, pos_x + 1,
cmb_alum_del.SelectedItem.Length)

    pos_x = InStrRev(cmb_alum_del.SelectedItem, " ")
    id_seccion = Mid(cmb_alum_del.SelectedItem, pos_x + 1,
cmb_alum_del.SelectedItem.Length)

```

```

        Dim MyDataSet As New DataSet
        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM usuarios WHERE tipo_usuario=3 and seccion=" &
id_seccion
            .Connection = MyCon
        End With
        Adapter.Fill(MyDataSet)
        Dim i As Integer
        Dim id_al As Integer
        Dim nombre_al, apellido_al As String

        Lst_al.Items.Clear()

        For i = 0 To MyDataSet.Tables(0).Rows.Count - 1
            nombre_al = Trim(MyDataSet.Tables(0).Rows(i).Item("nombre_us"))
            apellido_al = Trim(MyDataSet.Tables(0).Rows(i).Item("apellido_us"))
            id_al = MyDataSet.Tables(0).Rows(i).Item("id_usuario")
            Lst_al.Items.Add(apellido_al & " " & nombre_al & SPACIOS & id_al)
        Next i
    End Function

```

5. GRUPOS

Nombre del Objeto: frm_admin_grupos

Código:

```

Public Class frm_admin_grupos
    Inherits System.Windows.Forms.Form
    Dim Ya_Insert_Upd As Boolean
    Dim Ya_Insert_Del As Boolean
    Dim Ya_Insert_View As Boolean
    Dim Ya_Update_Del As Boolean
    Dim Ya_Update_View As Boolean
    Dim Ya_Del_Upd As Boolean
    Dim Ya_Del_View As Boolean

    Dim Ini_Upd, Ini_Del, Ini_View As Boolean
    Dim Inicio_C_Upd, Inicio_C_View As Boolean

```

Windows Form Designer generated code

```

Private Sub frm_admin_grupos_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
    SPACIOS = Space(200)
    Ya_Insert_Upd = False
    Ya_Insert_Del = False
    Ya_Insert_View = False
    Ya_Update_Del = False
    Ya_Update_View = False
    Ya_Del_Upd = False
    Ya_Del_View = False

    Ini_Upd = True
    Ini_Del = True
    Ini_View = True
    cmb_mod.SelectedIndex = 0
    chk_nota.Enabled = False
    chk_nota_upd.Enabled = False

End Sub
Private Sub cmb_mod_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_mod.SelectedIndexChanged
    If cmb_mod.SelectedIndex = 0 Then
        'Agente Funcional
        chk_add.Enabled = True
        chk_del.Enabled = True
        chk_upd.Enabled = True
    End If
End Sub

```

```

        chk_test.Enabled = False
        chk_nota.Enabled = False
    Else
        'Agente Visual
        chk_add.Enabled = False
        chk_del.Enabled = False
        chk_upd.Enabled = False
        chk_test.Enabled = True
        If chk_test.CheckState = CheckState.Checked Then
            chk_nota.Enabled = True
        Else
            chk_nota.Enabled = False
        End If
    End If
End Sub
Private Sub chk_test_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_test.CheckedChanged
    If chk_test.CheckState = CheckState.Checked Then
        'Hace examenes
        chk_nota.Enabled = True
    Else
        chk_nota.Enabled = False
    End If
End Sub
Private Sub cmb_mod_upd_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_mod_upd.SelectedIndexChanged
    If cmb_mod_upd.SelectedIndex = 0 Then
        'Agente Funcional
        chk_add_upd.Enabled = True
        chk_del_upd.Enabled = True
        chk_upd_upd.Enabled = True
        chk_test_upd.Enabled = False
        chk_nota_upd.Enabled = False
    Else
        'Agente Visual
        chk_add_upd.Enabled = False
        chk_del_upd.Enabled = False
        chk_upd_upd.Enabled = False
        chk_test_upd.Enabled = True
        If chk_test_upd.CheckState = CheckState.Checked Then
            chk_nota_upd.Enabled = True
        Else
            chk_nota_upd.Enabled = False
        End If
    End If
End Sub
Private Sub chk_test_upd_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_test_upd.CheckedChanged
    If chk_test_upd.CheckState = CheckState.Checked Then
        'Hace Examene
        chk_nota_upd.Enabled = True
    Else
        chk_nota_upd.Enabled = False
    End If
End Sub
Private Sub pb_add_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles pb_add.Click

    If txt_nom_grp.Text = "" Then
        MsgBox("Nombre del Grupo", MsgBoxStyle.Exclamation, "Validación")
        txt_nom_grp.Focus()
        Return
    End If

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim Nom_Grp As String
    Nom_Grp = Trim(txt_nom_grp.Text)

    With Adapter.InsertCommand
        .CommandText = "INSERT INTO grupos (nombre_grupo) VALUES ('" & Nom_Grp & "'"
        .Connection = MyCon
    End With

```



```

End With

Try
    MyCon.Open()
    Adapter.InsertCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

Dim Per_Add, Per_Upd, Per_Del As Integer
Dim Per_Test, Per_Nota As Integer
Dim Modulo As Integer

If cmb_mod.SelectedIndex = 0 Then
    'Agente Funcional
    Modulo = 0
    If chk_add.CheckState = CheckState.Checked Then
        Per_Add = 1
    Else
        Per_Add = 0
    End If
    If chk_upd.CheckState = CheckState.Checked Then
        Per_Upd = 1
    Else
        Per_Upd = 0
    End If
    If chk_del.CheckState = CheckState.Checked Then
        Per_Del = 1
    Else
        Per_Del = 0
    End If
    Per_Test = 0
    Per_Nota = 0
Else
    'Agente Visual
    Modulo = 1
    If chk_test.CheckState = CheckState.Checked Then
        Per_Test = 1
        If chk_nota.CheckState = CheckState.Checked Then
            Per_Nota = 1
        Else
            Per_Nota = 0
        End If
    Else
        Per_Test = 0
        Per_Nota = 0
    End If
    Per_Add = 0
    Per_Upd = 0
    Per_Del = 0
End If

Dim MyDataset As New DataSet

With Adapter.SelectCommand
    .CommandText = "SELECT MAX(id_grupo) as ult FROM grupos"
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataset, "Max_Grp")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default

```

```

        Return
    End Try

    Dim id_grp As Integer

    id_grp = MyDataset.Tables("Max_Grp").Rows(0).Item("ult")

    With Adapter.InsertCommand
        .CommandText = "INSERT INTO permisos (id_grupo, modulo, agrega, elimina, actualiza"
& _
        ", examen, nota_c) VALUES(" & id_grp & ", " & Modulo & ", " & Per_Add & ", " &
Per_Del & _
        ", " & Per_Upd & ", " & Per_Test & ", " & Per_Nota & " )"
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
    Return
    End Try

    txt_nom_grp.Text = ""

    chk_add.CheckState = CheckState.Unchecked
    chk_del.CheckState = CheckState.Unchecked
    chk_upd.CheckState = CheckState.Unchecked
    chk_test.CheckState = CheckState.Unchecked
    chk_nota.CheckState = CheckState.Unchecked

    Ya_Insert_Upd = True
    Ya_Insert_Del = True
    Ya_Insert_View = True

    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("Sus datos han sido introducidos Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")

    End Sub
    Private Sub Tab_Upd_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Upd.Paint
        If Ya_Insert_Upd Or Ya_Del_Upd Or Ini_Upd Then
            Me.Cursor = Windows.Forms.Cursors.WaitCursor

            Dim MyDataset As New DataSet
            With Adapter.SelectCommand
                .CommandText = "SELECT * FROM grupos WHERE id_grupo > 0"
                .Connection = MyCon
            End With

            Try
                MyCon.Open()
                Adapter.Fill(MyDataset, "grps")
                MyCon.Close()
            Catch ex As Exception
                MyCon.Close()
                MessageBox.Show("Se ha producido la siguiente excepción:" _
                    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
                Me.Cursor = Windows.Forms.Cursors.Default
            Return
            End Try

            Dim i As Integer
            Dim indice As Integer
            Dim nombre As String
            cmb_grp_upd.Items.Clear()
            txt_nom_grp_upd.Text = ""

```

```

    If MyDataset.Tables("grps").Rows.Count > 0 Then
        Inicio_C_Upd = True
        For i = 0 To MyDataset.Tables("grps").Rows.Count - 1
            nombre = MyDataset.Tables("grps").Rows(i).Item("nombre_grupo")
            indice = MyDataset.Tables("grps").Rows(i).Item("id_grupo")
            cmb_grp_upd.Items.Add(nombre & SPACIOS & indice)
        Next
        Inicio_C_Upd = False

        cmb_grp_upd.SelectedIndex = 0

        Ya_Insert_Upd = False
        Ya_Del_Upd = False
        Ini_Upd = False
    End If
    Me.Cursor = Windows.Forms.Cursors.Default
End If
End Sub
Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Me.Close()
End Sub
Private Function Cargar_Datos_Upd()

    Dim pos_grp As Integer
    Dim id_grp As Integer
    Dim Nom_Grp As String

    pos_grp = InStrRev(cmb_grp_upd.SelectedItem, " ")
    id_grp = Mid(cmb_grp_upd.SelectedItem, pos_grp + 1, cmb_grp_upd.SelectedItem.Length)
    Nom_Grp = Trim(Mid(cmb_grp_upd.SelectedItem, 1, cmb_grp_upd.SelectedItem.Length -
SPACIOS.Length))

    txt_nom_grp_upd.Text = Nom_Grp

    Dim MyDataset As New DataSet
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM permisos WHERE id_grupo=" & id_grp
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataset, "grp")
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    If MyDataset.Tables("grp").Rows(0).Item("modulo") = 0 Then
        cmb_mod_upd.SelectedIndex = 0
    Else
        cmb_mod_upd.SelectedIndex = 1
    End If

    If MyDataset.Tables("grp").Rows(0).Item("agrega") = 0 Then
        chk_add_upd.CheckState = CheckState.Unchecked
    Else
        chk_add_upd.CheckState = CheckState.Checked
    End If

    If MyDataset.Tables("grp").Rows(0).Item("elimina") = 0 Then
        chk_del_upd.CheckState = CheckState.Unchecked
    Else
        chk_del_upd.CheckState = CheckState.Checked
    End If

    If MyDataset.Tables("grp").Rows(0).Item("actualiza") = 0 Then
        chk_upd_upd.CheckState = CheckState.Unchecked
    End If
End Function

```

```

Else
    chk_upd_upd.CheckState = CheckState.Checked
End If

If MyDataset.Tables("grp").Rows(0).Item("examen") = 0 Then
    chk_test_upd.CheckState = CheckState.Unchecked
Else
    chk_test_upd.CheckState = CheckState.Checked
End If

If MyDataset.Tables("grp").Rows(0).Item("nota_c") = 0 Then
    chk_nota_upd.CheckState = CheckState.Unchecked
Else
    chk_nota_upd.CheckState = CheckState.Checked
End If

Me.Cursor = Windows.Forms.Cursors.Default
End Function
Private Sub cmb_grp_upd_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_grp_upd.SelectedIndexChanged
    If Inicio_C_Updater = False Then
        Cargar_Datos_Updater()
    End If
End Sub
Private Sub pb_upd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles pb_upd.Click

    If txt_nom_grp_upd.Text = "" Then
        MsgBox("Nombre del Grupo Vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_nom_grp_upd.Focus()
        Return
    End If

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim pos_grp As Integer
    Dim id_grp As Integer

    pos_grp = InStrRev(cmb_grp_upd.SelectedItem, " ")
    id_grp = Mid(cmb_grp_upd.SelectedItem, pos_grp + 1, cmb_grp_upd.SelectedItem.Length)

    Dim Nom_Grp As String
    Nom_Grp = Trim(txt_nom_grp_upd.Text)

    With Adapter.UpdateCommand
        .CommandText = "UPDATE grupos SET nombre_grupo = '" & Nom_Grp & "' WHERE id_grupo="
& id_grp
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.UpdateCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Dim Per_Add, Per_Updater, Per_Del As Integer
    Dim Per_Test, Per_Nota As Integer
    Dim Modulo As Integer

    If cmb_mod_upd.SelectedIndex = 0 Then
        'Agente Funcional
        Modulo = 0
        If chk_add_upd.CheckState = CheckState.Checked Then
            Per_Add = 1
        Else
            Per_Add = 0
        End If
    End If

```

```

End If
If chk_upd_upd.CheckState = CheckState.Checked Then
    Per_Upd = 1
Else
    Per_Upd = 0
End If
If chk_del_upd.CheckState = CheckState.Checked Then
    Per_Del = 1
Else
    Per_Del = 0
End If
Per_Test = 0
Per_Nota = 0
Else
    'Agente Visual
    Modulo = 1
    If chk_test_upd.CheckState = CheckState.Checked Then
        Per_Test = 1
        If chk_nota_upd.CheckState = CheckState.Checked Then
            Per_Nota = 1
        Else
            Per_Nota = 0
        End If
    Else
        Per_Test = 0
        Per_Nota = 0
    End If
    Per_Add = 0
    Per_Upd = 0
    Per_Del = 0
End If

With Adapter.UpdateCommand
    .CommandText = "UPDATE permisos SET modulo = " & Modulo & ", agrega=" & Per_Add & _
    ", elimina=" & Per_Del & ", actualiza=" & Per_Upd & ", examen=" & Per_Test & _
    ", nota_c=" & Per_Nota & " WHERE id_grupo=" & id_grp
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.UpdateCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" & _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try
cmb_grp_upd.Items.Item(cmb_grp_upd.SelectedIndex) = Nom_Grp & SPACIOS & id_grp

Ya_Update_Del = True
Ya_Update_View = True

Cargar_Datos_Updated()

MsgBox("Datos actualizados correctamente", MsgBoxStyle.Information, "EduCienSis")
Me.Cursor = Windows.Forms.Cursors.Default
End Sub
Private Sub Tab_Del_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Del.Paint
    If Ya_Insert_Del Or Ya_Update_Del Or Ini_Del Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim MyDataset As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM grupos WHERE id_grupo > 0"
            .Connection = MyCon
        End With
    End If

```

```

Try
    MyCon.Open()
    Adapter.Fill(MyDataset, "grps")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

Dim i As Integer
Dim indice As Integer
Dim nombre As String

cmb_grp_del.Items.Clear()

If MyDataset.Tables("grps").Rows.Count > 0 Then
    For i = 0 To MyDataset.Tables("grps").Rows.Count - 1
        nombre = MyDataset.Tables("grps").Rows(i).Item("nombre_grupo")
        indice = MyDataset.Tables("grps").Rows(i).Item("id_grupo")
        cmb_grp_del.Items.Add(nombre & SPACIOS & indice)
    Next
    cmb_grp_del.SelectedIndex = 0
End If

Me.Cursor = Windows.Forms.Cursors.Default
Ya_Insert_Del = False
Ya_Update_Del = False
Ini_Del = False
End If
End Sub
Private Sub pb_del_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles pb_del.Click
    Dim resp
    'resp = MsgBox("¿Realmente desea eliminar este Grupo?", MsgBoxStyle.YesNo,
"EduCienSis")
    resp = MessageBox.Show("¿Realmente desea Elimar este Grupo?", "Elimación de Registros",
MessageBoxButtons.YesNo, MessageBoxIcon.Question)
    If resp = 6 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim id_grp As Integer
        Dim Pos_Grp As String

        Pos_Grp = InStrRev(cmb_grp_del.SelectedItem, " ")
        id_grp = Mid(cmb_grp_del.SelectedItem, Pos_Grp + 1,
cmb_grp_del.SelectedItem.Length)

        Dim MyDataset As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT COUNT(*) AS Cuenta FROM usuarios WHERE id_grupo=" &
id_grp
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataset, "grp_c")
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        If MyDataset.Tables("grp_c").Rows(0).Item("Cuenta") > 0 Then
            Me.Cursor = Windows.Forms.Cursors.Default
            MsgBox("Hay alumnos que están asignados a este grupo" & vbCrLf & _

```

```

        "No puede ser eliminado mientras existan alumnos que pertenezcan a este grupo",
MsgBoxStyle.Exclamation, "EduCienSis")
    Return
End If

With Adapter.DeleteCommand
    .CommandText = "DELETE FROM permisos WHERE id_grupo=" & id_grp
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.DeleteCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

With Adapter.DeleteCommand
    .CommandText = "DELETE FROM grupos WHERE id_grupo=" & id_grp
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.DeleteCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

cmb_grp_del.Items.Remove(cmb_grp_del.SelectedItem)
cmb_grp_del.SelectedIndex = 0

Me.Cursor = Windows.Forms.Cursors.Default
MsgBox("Grupo eliminado correctamente", MsgBoxStyle.Information, "EduCienSis")
Ya_Del_Upd = True
Ya_Del_View = True
End If

End Sub

Private Sub Tab_View_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_View.Paint
    If Ya_Insert_View Or Ya_Update_View Or Ya_Del_View Or Ini_View Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim MyDataset As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM grupos WHERE id_grupo > 0"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataset, "grps")
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try
    End If
End Sub

```

```

Dim i As Integer
Dim indice As Integer
Dim nombre As String

Inicio_C_View = True
cmb_grp_view.Items.Clear()

If MyDataset.Tables("grps").Rows.Count > 0 Then
    For i = 0 To MyDataset.Tables("grps").Rows.Count - 1
        nombre = MyDataset.Tables("grps").Rows(i).Item("nombre_grupo")
        indice = MyDataset.Tables("grps").Rows(i).Item("id_grupo")
        cmb_grp_view.Items.Add(nombre & SPACIOS & indice)
    Next
    cmb_grp_view.SelectedIndex = 0
    Cargar_Datos_View()
End If
Inicio_C_View = False
Me.Cursor = Windows.Forms.Cursors.Default

Ya_Insert_View = False
Ya_Update_View = False
Ya_Del_View = False
Ini_View = False
End If
End Sub
Private Function Cargar_Datos_View()

Dim pos_x As Integer
Dim id_grp As String

pos_x = InStrRev(cmb_grp_view.SelectedItem, " ")
id_grp = Mid(cmb_grp_view.SelectedItem, pos_x + 1, cmb_grp_view.SelectedItem.Length)

Dim MyDataSet As New DataSet
With Adapter.SelectCommand
    .CommandText = "SELECT * FROM usuarios WHERE id_grupo=" & id_grp
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet)
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return Nothing
End Try

Dim i As Integer
Dim nombre_al, apellido_al As String
Lst_al.Items.Clear()

If MyDataSet.Tables(0).Rows.Count > 0 Then
    For i = 0 To MyDataSet.Tables(0).Rows.Count - 1
        nombre_al = Trim(MyDataSet.Tables(0).Rows(i).Item("nombre_us"))
        apellido_al = Trim(MyDataSet.Tables(0).Rows(i).Item("apellido_us"))
        Lst_al.Items.Add(apellido_al & " " & nombre_al)
    Next i
End If

End Function
Private Sub cmb_grp_view_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles cmb_grp_view.SelectedIndexChanged
    If Inicio_C_View = False Then
        Cargar_Datos_View()
    End If
End Sub

Private Sub frm_admin_grupos_Closing(ByVal sender As Object, ByVal e As System.ComponentModel.CancelEventArgs) Handles MyBase.Closing

```



```

        Panel_open = False
    End Sub
End Class

```

6. ALUMNOS

Nombre del Objeto: frm_admin_usr_alumnos

Código:

```

Imports System.Security.Cryptography
Imports System.Text
Imports System.IO
Public Class frm_admin_usr_alumnos
    Inherits System.Windows.Forms.Form
    Dim Ini_Ins, Ini_Upd, Ini_Del, Ini_Imp, Ini_Rep As Boolean
    Dim Ya_Ins_Upd As Boolean
    Dim Ya_Ins_Del As Boolean
    Dim Ya_Upd_Del As Boolean
    Dim Ya_Del_Upd As Boolean
    Dim Ya_Importo_Upd As Boolean
    Dim Ya_Importo_Del As Boolean
    Dim Inicio, Inicio2 As Boolean
    '--- PARA EL PASSWORD
    Dim P_Key, P_IV As String

```

Windows Form Designer generated code

```

Private Sub frm_admin_usr_alumnos_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    '--- PERMISOS ---
    If PERM_ADD = False Then
        B_Agregar.Visible = False
        PB_Imp.Visible = False
    End If
    If PERM_UPD = False Then
        B_Actualizar.Visible = False
    End If
    If PERM_DEL = False Then
        B_Eliminar.Visible = False
    End If
    '--- ---- -- -- --
    Ini_Ins = True
    Ini_Upd = True
    Ini_Del = True
    Ini_Imp = True
    Ini_Rep = True

    Ya_Ins_Upd = False
    Ya_Ins_Del = False
    Ya_Upd_Del = False
    Ya_Del_Upd = False
    Ya_Importo_Upd = False
    Ya_Importo_Del = False
    Inicio = True
    Inicio2 = True

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT G.id_grupo, G.nombre_grupo FROM " & _
            "grupos G, permisos P WHERE P.modulo = 1 AND P.id_grupo = G.id_grupo"
    End With

```

```

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Grupos")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    Me.Cursor = Windows.Forms.Cursors.Default
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error", MessageBoxButtons.OK)
    Return
End Try

cmb_grp_add.Items.Clear()
cmb_grp_upd.Items.Clear()
cmb_grp_imp.Items.Clear()

If MyDataSet.Tables("Grupos").Rows.Count > 0 Then
    Dim Nom_Grp As String
    Dim i, ID_Grp As Integer

    For i = 0 To MyDataSet.Tables("Grupos").Rows.Count - 1
        ID_Grp = MyDataSet.Tables("Grupos").Rows(i).Item("id_grupo")
        Nom_Grp = Trim(MyDataSet.Tables("Grupos").Rows(i).Item("nombre_grupo"))
        cmb_grp_add.Items.Add(Nom_Grp & SPACIOS & ID_Grp)
        cmb_grp_upd.Items.Add(Nom_Grp & SPACIOS & ID_Grp)
        cmb_grp_imp.Items.Add(Nom_Grp & SPACIOS & ID_Grp)
    Next
    cmb_grp_add.SelectedIndex = 0
    cmb_grp_imp.SelectedIndex = 0
Else
    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("No hay grupos de usuarios asignados para el tipo de usuario alumno" & _
        vbCrLf & "Consulte con el administrador", MsgBoxStyle.Exclamation,
"EduCienSis")
    Me.Close()
End If

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM secciones WHERE id_maestro =" & ID_Us_GLOBAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Secciones")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Me.Close()
End Try

If MyDataSet.Tables("Secciones").Rows.Count = 0 Then
    Panel_open = False
    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("No hay secciones asignadas a este maestro consulte con el administrador",
MsgBoxStyle.Exclamation, "EduCienSis")
    Me.Close()
    Return
End If

End Sub
Private Sub frm_admin_usr_alumnos_Closed(ByVal sender As Object, ByVal e As
System.EventArgs) Handles MyBase.Closed
    Panel_open = False
End Sub
Private Sub Tab_Alum_add_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Alum_add.Paint
    If Ini_Ins Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
    End If

```

```

cmb_alum_add.Items.Clear()

Dim MyDataSet As New DataSet

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM secciones WHERE id_maestro =" & ID_Us_GLOBAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Secciones")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

Dim indice, first As Integer
Dim nombre As String

Dim i As Integer
For i = 0 To MyDataSet.Tables("Secciones").Rows.Count - 1
    nombre = MyDataSet.Tables("Secciones").Rows(i).Item("nombre_secc")
    indice = MyDataSet.Tables("Secciones").Rows(i).Item("id_seccion")
    cmb_alum_add.Items.Add(nombre & SPACIOS & indice)
Next
cmb_alum_add.SelectedIndex = cmb_alum_add.Items.Count - 1
Me.Cursor = Windows.Forms.Cursors.Default

Ini_Ins = False
End If
End Sub
Private Sub Tab_Alum_Upd_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Alum_Upd.Paint
    If Ini_Upd Or Ya_Ins_Upd Or Ya_Del_Upd Or Ya_Importo_Upd Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim MyDataSet As New DataSet

        lbl_alactu.Text = ""

        cmb_alum_upd.Items.Clear()
        cmb_alum_secc_upd.Items.Clear()
        txt_alum_name_upd.Text = ""
        txt_alum_ape_upd.Text = ""
        txt_alum_log_upd.Text = ""

        With Adapter.SelectCommand
            .CommandText = "SELECT u.id_usuario, u.nombre_us, u.apellido_us " & _
                "FROM usuarios u, secciones s WHERE u.seccion=s.id_seccion AND" & _
                " s.id_maestro =" & ID_Us_GLOBAL & " ORDER by u.apellido_us"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "Alumnos")
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        If MyDataSet.Tables("Alumnos").Rows.Count > 0 Then
            Dim indice As Integer
            Dim nombre, apell As String

```

```

Dim i As Integer

Inicio = True
For i = 0 To MyDataSet.Tables("Alumnos").Rows.Count - 1
    nombre = Trim(MyDataSet.Tables("Alumnos").Rows(i).Item("nombre_us"))
    apell = Trim(MyDataSet.Tables("Alumnos").Rows(i).Item("apellido_us"))
    indice = MyDataSet.Tables("Alumnos").Rows(i).Item("id_usuario")
    cmb_alum_upd.Items.Add(apell & " - " & nombre & SPACIOS & indice)
Next
cmb_alum_upd.SelectedIndex = 0
Inicio = False

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM secciones WHERE id_maestro=" & ID_Us_GLOBAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Secciones")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

For i = 0 To MyDataSet.Tables("Secciones").Rows.Count - 1
    nombre = MyDataSet.Tables("Secciones").Rows(i).Item("nombre_secc")
    indice = MyDataSet.Tables("Secciones").Rows(i).Item("id_seccion")
    cmb_alum_secc_upd.Items.Add(nombre & SPACIOS & indice)
Next
cmb_alum_secc_upd.SelectedIndex = 0

cargar_datos()
Else
    lbl_alactu.Text = "NO HAY REGISTROS DE ALUMNOS PARA ACTUALIZAR"
End If
Me.Cursor = Windows.Forms.Cursors.Default
Ya_Ins_Upd = False
Ya_Del_Upd = False
Ini_Upd = False
Ya_Importo_Upd = False

End If
End Sub
Private Function cargar_datos()

Dim pos_x As Integer
Dim id_alumno As String

pos_x = InStrRev(cmb_alum_upd.SelectedItem, " ")
id_alumno = Mid(cmb_alum_upd.SelectedItem, pos_x + 1, cmb_alum_upd.SelectedItem.Length)

Dim MyDataSet As New DataSet
With Adapter.SelectCommand
    .CommandText = "SELECT * FROM usuarios WHERE id_usuario=" & id_alumno
    .Connection = MyCon
End With
Adapter.Fill(MyDataSet)

txt_alum_name_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("nombre_us"))
txt_alum_log_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("login_us"))
txt_alum_ape_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("apellido_us"))
chk_us_upd.CheckState = CheckState.Unchecked
txt_alum_passn1_upd.Text = ""
'txt_alum_passn1_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("pass_us"))
Dim id_seccion As Integer
id_seccion = MyDataSet.Tables(0).Rows(0).Item("seccion")

If id_seccion.ToString = "" Or id_seccion = 0 Then

```

```

        cmb_alum_secc_upd.SelectedIndex = 0
    Else
        Dim i, indexreal, pos As Integer
        Dim id As String
        For i = 0 To (cmb_alum_secc_upd.Items.Count() - 1)
            cmb_alum_secc_upd.SelectedIndex = i
            pos = InStrRev(cmb_alum_secc_upd.SelectedItem, " ")
            id = Mid(cmb_alum_secc_upd.SelectedItem, pos + 1,
cmb_alum_secc_upd.SelectedItem.Length)

            If id = id_seccion Then
                indexreal = i
            End If
        Next i
        cmb_alum_secc_upd.SelectedIndex = indexreal
    End If

    Dim id_grp As Integer
    id_grp = MyDataSet.Tables(0).Rows(0).Item("id_grupo")

    Dim j, indexrealj, posj As Integer
    Dim id_temp As String
    For j = 0 To (cmb_grp_upd.Items.Count() - 1)
        cmb_grp_upd.SelectedIndex = j
        posj = InStrRev(cmb_grp_upd.SelectedItem, " ")
        id_temp = Mid(cmb_grp_upd.SelectedItem, posj + 1, cmb_grp_upd.SelectedItem.Length)

        If id_temp = id_grp Then
            indexrealj = j
        End If
    Next j
    cmb_grp_upd.SelectedIndex = indexrealj

End Function
Private Sub cmb_alum_upd_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_alum_upd.SelectedIndexChanged
    If Inicio = False Then
        cargar_datos()
    End If
End Sub
Private Sub chk_us_upd_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_us_upd.CheckedChanged
    If chk_us_upd.Checked = True Then
        txt_alum_passn1_upd.Enabled = True
    Else
        txt_alum_passn1_upd.Enabled = False
    End If
End Sub
Private Sub Tab_Alum_Del_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Alum_Del.Paint

    If Ini_Del Or Ya_Ins_Del Or Ya_Upd_Del Or Ya_Importo_Del Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        cmb_alum_del.Items.Clear()

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM secciones WHERE id_maestro = " & ID_Us_GLOBAL
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "Secciones")
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Sub

```

```

End Try

Dim indice, first As Integer
Dim nombre As String

Inicio2 = True
Dim i As Integer
For i = 0 To MyDataSet.Tables("Secciones").Rows.Count - 1
    nombre = MyDataSet.Tables("Secciones").Rows(i).Item("nombre_secc")
    indice = MyDataSet.Tables("Secciones").Rows(i).Item("id_seccion")
    cmb_alum_del.Items.Add(nombre & SPACIOS & indice)
Next
cmb_alum_del.SelectedIndex = 0
Me.Cursor = Windows.Forms.Cursors.Default
Inicio2 = False

cargar_datos_del()
Ini_Del = False
Ya_Ins_Del = False
Ya_Upd_Del = False
Ya_Importo_Del = False
End If
End Sub
Private Function cargar_datos_del()
    Dim pos_x As Integer
    Dim id_seccion As String

    pos_x = InStrRev(cmb_alum_del.SelectedItem, " ")
    id_seccion = Mid(cmb_alum_del.SelectedItem, pos_x + 1,
cmb_alum_del.SelectedItem.Length)

    Dim MyDataSet As New DataSet
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM usuarios WHERE tipo_usuario=3 and seccion=" &
id_seccion
    .Connection = MyCon
    End With
    Adapter.Fill(MyDataSet)
    Dim i As Integer
    Dim id_al As Integer
    Dim nombre_al, apellido_al As String

    chk_alum_del.Items.Clear()

    For i = 0 To MyDataSet.Tables(0).Rows.Count - 1
        nombre_al = Trim(MyDataSet.Tables(0).Rows(i).Item("nombre_us"))
        apellido_al = Trim(MyDataSet.Tables(0).Rows(i).Item("apellido_us"))
        id_al = MyDataSet.Tables(0).Rows(i).Item("id_usuario")
        chk_alum_del.Items.Add(apellido_al & " " & nombre_al & SPACIOS & id_al)
    Next i
End Function
Private Sub cmb_alum_del_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_alum_del.SelectedIndexChanged
    If Inicio2 = False Then
        cargar_datos_del()
    End If
End Sub
Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click
    Dim Auto_User As Boolean

    If Trim(txt_alum_name_add.Text) = "" Then
        MsgBox("Nombre del Alumno vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_alum_name_add.Focus()
        Return
    End If
    If Trim(txt_alum_ape_add.Text) = "" Then
        MsgBox("Apellido del Alumno vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_alum_ape_add.Focus()
        Return
    End If
End If

```

```

    If Trim(txt_alum_login_add.Text) = "" And Trim(txt_alum_add_pwd1.Text) = "" And
Trim(txt_alum_add_pwd2.Text) = "" Then
        Auto_User = True
    Else
        Auto_User = False
    End If

    If Trim(txt_alum_login_add.Text) = "" And Not Auto_User Then
        MsgBox("Campo de Usuario vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_alum_login_add.Focus()
        Return
    End If
    If Trim(txt_alum_add_pwd1.Text) = "" And Not Auto_User Then
        MsgBox("Campo de Contraseña vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_alum_add_pwd1.Focus()
        Return
    End If
    If txt_alum_add_pwd1.Text <> txt_alum_add_pwd2.Text And Not Auto_User Then
        MsgBox("Confirmación de Contraseña: No coinciden las Contraseñas",
MsgBoxStyle.Exclamation, "Validación")
        Return
    End If

    Dim pos As Integer
    Dim id_sec, id_grp As String

    pos = InStrRev(cmb_alum_add.SelectedItem, " ")
    id_sec = Mid(cmb_alum_add.SelectedItem, pos + 1, cmb_alum_add.SelectedItem.Length)

    pos = InStrRev(cmb_grp_add.SelectedItem, " ")
    id_grp = Mid(cmb_grp_add.SelectedItem, pos + 1, cmb_grp_add.SelectedItem.Length)

    '---Fin Validar---
    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    Dim name, apellido, login, pass As String
    If Auto_User = False Then
        name = Trim(txt_alum_name_add.Text)
        apellido = Trim(txt_alum_ape_add.Text)
        login = Trim(txt_alum_login_add.Text)
        pass = Trim(txt_alum_add_pwd1.Text)
        pass = Encriptar(pass)

        If Existe_Login(login) Then
            MsgBox("Confirmación de Usuarios del Sistema: Ya existe el usuario "" & login
& _
                vbCrLf & "Pruebe con un usuario diferente", MsgBoxStyle.Exclamation,
"Validación")
            Return
        Else
            With Adapter.InsertCommand
                .Connection = MyCon
                .CommandText = "INSERT INTO usuarios (tipo_usuario, nombre_us, apellido_us,
" & _
                    "login_us, pass_us, seccion, id_grupo, p_key, p_IV) VALUES (3,'" & name &
"', '" & apellido & _
                    "', '" & login & "', '" & pass & "', " & id_sec & "', " & id_grp & "', '" &
P_Key & "', '" & P_IV & "')"
            End With

            Try
                MyCon.Open()
                Adapter.InsertCommand.ExecuteReader()
                MyCon.Close()
            Catch ex As Exception
                MyCon.Close()
                MessageBox.Show("Se ha producido la siguiente excepción:" _
                    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
                Me.Cursor = Windows.Forms.Cursors.Default
                Return
            End Try
        End If
    Else

```



```

vbCrLf & "Pruebe con un usuario diferente", MsgBoxStyle.Exclamation,
"Validación")
    Return
Else
    Dim pas_sin As String
    pas_sin = Pass_User
    Pass_User = Encriptar(Pass_User)

    With Adapter.UpdateCommand
        .CommandText = "UPDATE usuarios SET login_us='" & Log_User & "', pass_us='"
& _
        Pass_User & "', p_key='" & P_Key & "', p_IV='" & P_IV & "' WHERE
id_usuario=" & Corr
    .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.UpdateCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    MsgBox("Autogeneración de datos Para: " & name & " " & apellido & vbCrLf & _
        "Usuario: " & Log_User & vbCrLf & "Contraseña: " & pas_sin,
MsgBoxStyle.Exclamation, "Autogeneración de Datos - EduCienSys")

    End If

End If

Me.Cursor = Windows.Forms.Cursors.Default
MsgBox("Sus datos han sido introducidos Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")

txt_alum_name_add.Text = ""
txt_alum_ape_add.Text = ""
txt_alum_login_add.Text = ""
txt_alum_add_pwd1.Text = ""
txt_alum_add_pwd2.Text = ""

Ya_Ins_Upd = True
Ya_Ins_Del = True
End Sub
Private Sub B_Actualizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Actualizar.Click
    If cmb_alum_upd.Items.Count > 0 Then
        If Trim(txt_alum_name_upd.Text) = "" Then
            MsgBox("Nombre del Alumno vacio", MsgBoxStyle.Exclamation, "Validación")
            txt_alum_name_upd.Focus()
            Return
        End If

        If Trim(txt_alum_log_upd.Text) = "" Then
            MsgBox("login del Alumno vacio", MsgBoxStyle.Exclamation, "Validación")
            txt_alum_log_upd.Focus()
            Return
        End If

        If chk_us_upd.Checked = True Then
            If Trim(txt_alum_passn1_upd.Text) = "" Then
                MsgBox("No se permiten contraseña vacía", MsgBoxStyle.Exclamation,
"Validación")
                txt_alum_passn1_upd.Focus()
                Return
            End If
        End If
    End If
End Sub

```

```

'---Fin Validar---

Me.Cursor = Windows.Forms.Cursors.WaitCursor

Dim pos As Integer
Dim id_al, id_secc, id_grp As String

pos = InStrRev(cmb_alum_upd.SelectedItem, " ")
id_al = Mid(cmb_alum_upd.SelectedItem, pos + 1, cmb_alum_upd.SelectedItem.Length)

pos = InStrRev(cmb_grp_upd.SelectedItem, " ")
id_grp = Mid(cmb_grp_upd.SelectedItem, pos + 1, cmb_grp_upd.SelectedItem.Length)

pos = InStrRev(cmb_alum_secc_upd.SelectedItem, " ")
id_secc = Mid(cmb_alum_secc_upd.SelectedItem, pos + 1,
cmb_alum_secc_upd.SelectedItem.Length)

Dim nombre, apell, login, pass As String

nombre = Trim(txt_alum_name_upd.Text)
apell = Trim(txt_alum_ape_upd.Text)
login = Trim(txt_alum_log_upd.Text)
pass = Trim(txt_alum_passn1_upd.Text)

Dim cad As String
If chk_us_upd.Checked = True Then
    pass = Encriptar(pass)
    cad = "UPDATE usuarios SET nombre_us='" & nombre & "', apellido_us='" & apell &
    "', login_us='" & login & "', pass_us='" & pass & "', seccion='" & id_secc & "', id_grupo='" &
    id_grp & "', p_key='" & P_Key & "', p_IV='" & P_IV & "' WHERE id_usuario=" & id_al
Else
    cad = "UPDATE usuarios SET nombre_us='" & nombre & "', apellido_us='" & apell &
    "', login_us='" & login & "', seccion='" & id_secc & "', id_grupo='" & id_grp & "' WHERE
    id_usuario=" & id_al
End If

With Adapter.UpdateCommand
    .CommandText = cad
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.UpdateCommand.ExecuteReader()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

Me.Cursor = Windows.Forms.Cursors.Default

chk_us_upd.Checked = False
txt_alum_passn1_upd.Text = ""
cmb_alum_upd.Items.Item(cmb_alum_upd.SelectedIndex) = apell & " - " & nombre &
SPACIOS & id_al
MessageBox("Sus datos han sido Actualizados Exitosamente", MsgBoxStyle.Exclamation,
"Confirmación de Datos")

Ya_Upd_Del = True
End If

End Sub
Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
    Dim j As Integer
    Dim Checkeado As Boolean
    Checkeado = False
    For j = 0 To chk_alum_del.Items.Count - 1
        If chk_alum_del.GetItemChecked(j) Then

```

```

        Checkeado = True
    End If
Next

If Checkeado = False Then
    MsgBox("No se ha seleccionado ningún elemento", MsgBoxStyle.Exclamation,
"Validación de Datos")
    Return
End If

Dim resp
'resp = MsgBox("¿Realmente desea Elimar este registro?", MsgBoxStyle.YesNo, "Elimación
de Registros")
resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "EduCienSis",
MessageBoxButtons.YesNo, MessageBoxIcon.Question)

If resp = 6 Then
    Dim id_us, cad, Cad_Where As String

    cad = "DELETE FROM USUARIOS WHERE "
    Cad_Where = ""
    Dim i, pos As Integer
    For i = 0 To chk_alum_del.Items.Count - 1
        If chk_alum_del.GetItemChecked(i) Then
            chk_alum_del.SelectedIndex = i
            pos = InStrRev(chk_alum_del.SelectedItem, " ")
            id_us = Mid(chk_alum_del.SelectedItem, pos + 1,
chk_alum_del.SelectedItem.Length)

            If Cad_Where = "" Then
                Cad_Where = "id_usuario=" & id_us
            Else
                Cad_Where = Cad_Where & " OR id_usuario=" & id_us
            End If
        End If
    Next
    cad = cad & Cad_Where

    With Adapter.DeleteCommand
        .CommandText = cad
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    cargar_datos_del()

    '----Variables de entorno
    Ya_Del_Upd = True
    MsgBox("Datos eliminados exitosamente", MsgBoxStyle.Exclamation, "Elimación de
Registros")
End If
End Sub
Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Me.Close()
End Sub
Private Function Existe_Login(ByVal Login As String)

    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT * FROM usuarios WHERE login_us='" & Login & "' "
    End With

```

```

Dim MyDataSet As New DataSet

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Login")
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Función Existe_Login: Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error", MessageBoxButtons.OK)
    Me.Cursor = Windows.Forms.Cursors.Default
    Return True
End Try
If MyDataSet.Tables("Login").Rows.Count > 0 Then
    Return True
Else
    Return False
End If
End Function
Private Sub Tab_Alum_Del_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Tab_Alum_Del.Click

    End Sub
Private Sub Tab_Alum_Upd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Tab_Alum_Upd.Click

    End Sub
Private Sub Tab_Alum_Imp_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Alum_Imp.Paint
    If Ini_Imp Then

        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Cmb_Secc_Imp.Items.Clear()

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM secciones WHERE id_maestro = " & ID_Us_GLOBAL
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "Secciones_Imp")
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        Dim indice, first As Integer
        Dim nombre As String

        Dim i As Integer
        For i = 0 To MyDataSet.Tables("Secciones_Imp").Rows.Count - 1
            nombre = MyDataSet.Tables("Secciones_Imp").Rows(i).Item("nombre_secc")
            indice = MyDataSet.Tables("Secciones_Imp").Rows(i).Item("id_seccion")
            Cmb_Secc_Imp.Items.Add(nombre & SPACIOS & indice)
        Next

        Cmb_Secc_Imp.SelectedIndex = 0
        Me.Cursor = Windows.Forms.Cursors.Default

        Ini_Imp = False

    End If
End Sub

```

```

Private Sub PB_Imp_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Imp.Click
    OpenFileDialog1.Multiselect = False

    OpenFileDialog1 = New OpenFileDialog
    OpenFileDialog1.Filter = "Archivos de Hojas de Cálculo de MS Excel (*.xls)|*.xls"
    OpenFileDialog1.Title = "Archivos de Hojas de Cálculo"

    If OpenFileDialog1.ShowDialog() = DialogResult.OK Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        Dim pos As Integer
        Dim ext As String
        pos = InStrRev(OpenFileDialog1.FileName, ".")
        ext = Mid(OpenFileDialog1.FileName, pos + 1, OpenFileDialog1.FileName.Length)
        ext = ext.ToLower
        If ext = "xls" Then

            Dim objDataSet As System.Data.DataSet
            Dim objDataAdapter As System.Data.OleDb.OleDbDataAdapter
            Dim objOleDbConnection As System.Data.OleDb.OleDbConnection

            'Creamos un objeto OLEDBConnection con el nombre del archivo seleccionado
            ' como Data Source
            objOleDbConnection = New System.Data.OleDb.OleDbConnection( _
                "provider=Microsoft.Jet.OLEDB.4.0; " & _
                "data source=" & OpenFileDialog1.FileName & "; Extended Properties=Excel
8.0;")

            '* Si queremos seleccionar toda la hoja solo especificamos [Sheet1$]
            objDataAdapter = New System.Data.OleDb.OleDbDataAdapter( _
                "select * from [Sheet1$] ", objOleDbConnection)
            'where [Sheet1$A4] = 'Aruba'

            objDataSet = New System.Data.DataSet
            Try
                objDataAdapter.Fill(objDataSet)
            Catch ex As Exception
                objOleDbConnection.Close()
                MessageBox.Show("Se ha producido la siguiente excepción:" _
                    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
                Me.Cursor = Windows.Forms.Cursors.Default
                Return
            End Try

            Dim i As Integer
            Dim Nom_al, Ape_al, Log_Al, Pass_Al As String
            Dim Errores As Boolean = False
            Dim Errores_Esta As Boolean = False
            Dim fich As File

            If fich.Exists(Application.StartupPath & "\Errores_Insert.html") Then
                fich.Delete(Application.StartupPath & "\Errores_Insert.html")
            End If
            Dim j As System.IO.StreamWriter
            j = fich.CreateText(Application.StartupPath & "\Errores_Insert.html")

            If objDataSet.Tables(0).Rows.Count > 0 Then
                Dim ID_SECTION, ID_Grp, Pos_Sec As Integer

                Pos_Sec = InStrRev(Cmb_Secc_Imp.SelectedItem, " ")
                ID_SECTION = Mid(Cmb_Secc_Imp.SelectedItem, Pos_Sec + 1,
Cmb_Secc_Imp.SelectedItem.Length)

                Pos_Sec = InStrRev(cmb_grp_imp.SelectedItem, " ")
                ID_Grp = Mid(cmb_grp_imp.SelectedItem, Pos_Sec + 1,
cmb_grp_imp.SelectedItem.Length)
                Dim cad_tbl As String
                Dim alt As Integer = 0
                j.WriteLine("<table width='100%' border='1'>")
                j.WriteLine("<tr align='center'><td>REGISTRO</td><td>FALTA
NOMBRE</td><td>FALTA APELLIDO</td><td>FALTA USUARIO</td><td>FALTA CONTRASEÑA</td><td>LOGIN
EXISTE</td></tr>")

```

```

For i = 0 To objDataSet.Tables(0).Rows.Count - 1
    If alt = 0 Then
        cad_tbl = "<tr bgcolor='#999999' align='center'><td>" & i & "</td>"
        alt = 1
    Else
        cad_tbl = "<tr align='center'><td>" & i & "</td>"
        alt = 0
    End If

    Errores_Esta = False
    'j.WriteLine("</br>")
    Nom_al = Trim(objDataSet.Tables(0).Rows(i).Item(0).ToString).ToUpper
    Ape_al = Trim(objDataSet.Tables(0).Rows(i).Item(1).ToString).ToUpper
    Log_Al = Trim(objDataSet.Tables(0).Rows(i).Item(2).ToString)
    Pass_Al = Trim(objDataSet.Tables(0).Rows(i).Item(3).ToString)
    If Nom_al = "" Then
        Errores = True
        Errores_Esta = True
        cad_tbl &= "<td><input type='checkbox' name='checkbox'
checked='checked' /></td>"
    Else
        cad_tbl &= "<td><input type='checkbox' name='checkbox' /></td>"
    End If

    If Ape_al = "" Then
        Errores = True
        Errores_Esta = True
        cad_tbl &= "<td><input type='checkbox' name='checkbox'
checked='checked' /></td>"
    Else
        cad_tbl &= "<td><input type='checkbox' name='checkbox' /></td>"
    End If

    If Log_Al = "" Then
        Errores = True
        Errores_Esta = True
        cad_tbl &= "<td><input type='checkbox' name='checkbox'
checked='checked' /></td>"
    Else
        cad_tbl &= "<td><input type='checkbox' name='checkbox' /></td>"
    End If

    If Pass_Al = "" Then
        Errores = True
        Errores_Esta = True
        cad_tbl &= "<td><input type='checkbox' name='checkbox'
checked='checked' /></td>"
    Else
        cad_tbl &= "<td><input type='checkbox' name='checkbox' /></td>"
    End If

    If Existe_Login(Log_Al) Then
        Errores = True
        Errores_Esta = True
        cad_tbl &= "<td><input type='checkbox' name='checkbox'
checked='checked' /></td>"
    Else
        cad_tbl &= "<td><input type='checkbox' name='checkbox' /></td>"
    End If

    If Not Errores_Esta Then

        Pass_Al = Encriptar(Pass_Al)
        With Adapter.InsertCommand
            .Connection = MyCon
            .CommandText = "INSERT INTO usuarios (tipo_usuario, nombre_us,
apellido_us, login_us, pass_us, seccion, id_grupo, p_key, p_IV) VALUES (3,'" & Nom_al & "', '"
& Ape_al & "', '" & Log_Al & "', '" & Pass_Al & "', " & ID_SECTION & ", " & ID_Grp & ", '" &
P_Key & "', '" & P_IV & "')"
        End With

    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception

```

```

        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" & _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Ya_Importo_Del = True
        Ya_Importo_Upd = True
        Return
    End Try
Else
    j.WriteLine(cad_tbl & "</tr>")
End If
Next
j.WriteLine("</table>")
j.Close()
Me.Cursor = Windows.Forms.Cursors.Default
If Errores Then
    Dim resp
    'resp = MsgBox("Ocurrieron errores al importar desde el archivo" & _
    'vbCrLf & "¿Desea ver el informe de errores?", MsgBoxStyle.Exclamation
= MsgBoxStyle.OKOnly, "Elimación de Registros")
    resp = MessageBox.Show("Ocurrieron errores al importar desde el
archivo" & _
vbCrLf & "¿Desea ver el informe de errores?", "EduCienSis",
MessageBoxButtons.YesNo, MessageBoxIcon.Question)
    If resp = 6 Then
        Dim IE As New SHDocVw.InternetExplorer
        IE.Visible = True
        Dim Dummy As Object = System.Type.Missing
        IE.Navigate(Application.StartupPath & "\Errores_Insert.html",
Dummy, Dummy, Dummy)
    End If
Else
    MsgBox("Se introdujeron los datos correctamente",
MsgBoxStyle.Information, "EduCienSis")
End If
Ya_Importo_Del = True
Ya_Importo_Upd = True

Else
    MsgBox("No existen registros que importar", MsgBoxStyle.Exclamation,
"EduCienSis")
End If

Else
    MsgBox("El archivo: " & vbCrLf & OpenFileDialog1.FileName & " no es del formato
admitido", MsgBoxStyle.Exclamation, "EduCienSys")
End If
End If
End Sub
Private Sub PB_Rep_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Rep.Click
    Dim fich As File
    Dim Pos_Sec, ID_SECTION As Integer

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Pos_Sec = InStrRev(Cmb_Secc_Imp.SelectedItem, " ")
    ID_SECTION = Mid(Cmb_Secc_Imp.SelectedItem, Pos_Sec + 1,
Cmb_Secc_Imp.SelectedItem.Length)

    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT * FROM usuarios WHERE seccion=" & ID_SECTION
    End With

    Dim MyDataSet As New DataSet

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "USERS")
        MyCon.Close()
    Catch ex As Exception

```

```

MyCon.Close()
MessageBox.Show("Función Existe_Login: Se ha producido la siguiente excepción:" _
    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error", MessageBoxButtons.OK)
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try
Dim i As Integer
Dim Nomb_Al, Ap_Al, Log_Al, Pwd_Al As String
If MyDataSet.Tables("USERS").Rows.Count > 0 Then
    If fich.Exists(Application.StartupPath & "\Rep_Alumnos.html") Then
        fich.Delete(Application.StartupPath & "\Rep_Alumnos.html")
    End If
    Dim j As System.IO.StreamWriter
    j = fich.CreateText(Application.StartupPath & "\Rep_Alumnos.html")
    Dim alt As Integer = 0
    j.WriteLine("<table width='100%' border='1'>")
    j.WriteLine("<tr align='center'>")
    j.WriteLine("<td><b>NOMBRES</b></td><td><b>APELLIDOS</b></td><td><b>LOGIN</b></td>")
    j.WriteLine("</tr>")
    For i = 0 To MyDataSet.Tables("USERS").Rows.Count - 1
        Nomb_Al = Trim(MyDataSet.Tables("USERS").Rows(i).Item("nombre_us"))
        Ap_Al = Trim(MyDataSet.Tables("USERS").Rows(i).Item("apellido_us"))
        Log_Al = Trim(MyDataSet.Tables("USERS").Rows(i).Item("login_us"))
        If alt = 0 Then
            j.WriteLine("<tr bgcolor='#999999'>")
            alt = 1
        Else
            j.WriteLine("<tr>")
            alt = 0
        End If
        j.WriteLine("<td>" & Nomb_Al & "</td><td>" & Ap_Al & "</td><td>" & Log_Al &
"</td>")
        j.WriteLine("</tr>")
    Next
    j.WriteLine("</table>")
    j.Close()
    Dim IE As New SHDocVw.InternetExplorer
    IE.Visible = True

    Dim Dummy As Object = System.Type.Missing
    IE.Navigate(Application.StartupPath & "\Rep_Alumnos.html", Dummy, Dummy, Dummy)

    Me.Cursor = Windows.Forms.Cursors.Default
Else
    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("No hay alumnos en la sección Seleccionada", MsgBoxStyle.Information,
"EduCienSys")
End If
End Sub
Private Sub frm_admin_usr_alumnos_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Panel_open = False
End Sub
Private Function Encriptar(ByVal txt_pass As String)
    Dim saEnc As SymmetricAlgorithm
    Dim dataorg() As Byte

    dataorg = Encoding.Default.GetBytes(txt_pass)

    saEnc = SymmetricAlgorithm.Create()
    Dim ct As ICryptoTransform

    ct = saEnc.CreateEncryptor()

    'System.Security.Cryptography.
    Dim ms As MemoryStream = New MemoryStream
    Dim cs As CryptoStream = New CryptoStream(ms, ct, CryptoStreamMode.Write)
    cs.Write(dataorg, 0, dataorg.Length)
    cs.FlushFinalBlock()

    Dim cripto As String
    cripto = Encoding.Default.GetString(ms.ToArray()).Replace("'", "'")
    P_Key = Encoding.Default.GetString((saEnc.Key)).Replace("'", "'")

```



```

        P_IV = Encoding.Default.GetString((saEnc.IV)).Replace("'", "'")
    Return cripto
End Function
End Class

```

7. UNIDADES

Nombre del Objeto: frm_admin_unidades

Código:

```

Imports System.IO
Public Class frm_admin_unidades
    Inherits System.Windows.Forms.Form
    Dim Ya_Ins_Upd As Boolean
    Dim Ya_Ins_Del As Boolean
    Dim Ya_Upd_Del As Boolean
    Dim Ya_Del_Upd As Boolean
    Dim Ruta_Img As String
    Dim Inicio As Boolean
    Dim Uni_1, Uni_2, Uni_3 As String

```

Windows Form Designer generated code

```

    Private Sub frm_admin_unidades_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

```

```

        '-- PERMISOS --
        If PERM_ADD = False Then
            B_Agregar.Visible = False
        End If
        If PERM_UPD = False Then
            B_Actualizar.Visible = False
        End If
        If PERM_DEL = False Then
            B_Eliminar.Visible = False
        End If
        '-- -- --

        'Dim z As System.Drawing.Point
        'z.X = Pos_X_admin_panel
        'z.Y = Pos_Y_admin_panel - 20

        'Me.Location = z

        cmb_uni_add.SelectedIndex = 0
        cmb_uni_orden_upd.SelectedIndex = 0

        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        Conseguir_Primeros()
        Me.Cursor = Windows.Forms.Cursors.Default

        Ya_Ins_Upd = True
        Ya_Del_Upd = True
        Ya_Ins_Del = True
        Ya_Upd_Del = True
        Inicio = True
    End Sub
    Private Sub Tab_Uni_Actualizar_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Uni_Actualizar.Paint

        If Ya_Ins_Upd Or Ya_Del_Upd Then

            Me.Cursor = Windows.Forms.Cursors.WaitCursor

            Cmb_uni_Upd.Items.Clear()

```

```

Dim MyDataSet As New DataSet

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM unidad WHERE id_usuario=" & ID_Us_GLOBAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "unidad")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

Dim indice, first As Integer
Dim nombre As String
Inicio = True

Dim i As Integer
Dim MyPath As String

For i = 0 To MyDataSet.Tables("unidad").Rows.Count - 1
    indice = MyDataSet.Tables("unidad").Rows(i).Item("id_unidad")
    nombre = Trim(MyDataSet.Tables("unidad").Rows(i).Item("nombre_unidad"))
    Cmb_uni_Upd.Items.Add(nombre & SPACIOS & indice)
Next
If MyDataSet.Tables(0).Rows(i - 1).Item("fondo") Is System.DBNull.Value Then
    MyPath = Application.StartupPath & "\defaults\None_Icon.png"
Else
    MyPath = Application.StartupPath & "\imgs\unidades\" &
Trim(MyDataSet.Tables(0).Rows(i - 1).Item("fondo"))
End If
Ruta_Img = MyPath
Cargar_Img(MyPath)

Cmb_uni_Upd.SelectedIndex = Cmb_uni_Upd.Items.Count - 1
cargar_datos()

Inicio = False
Me.Cursor = Windows.Forms.Cursors.Default

Ya_Del_Upd = False
Ya_Ins_Upd = False
End If
End Sub
Private Function cargar_datos()
    Dim pos_x As Integer
    Dim id_uni As String

    pos_x = InStrRev(Cmb_uni_Upd.SelectedItem, " ")
    id_uni = Mid(Cmb_uni_Upd.SelectedItem, pos_x + 1, Cmb_uni_Upd.SelectedItem.Length)

    Dim MyDataSet As New DataSet
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM unidad WHERE id_unidad=" & id_uni
        .Connection = MyCon
    End With
    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "unidad")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return 0
    End Try

```

```

Dim orden As Integer
orden = MyDataSet.Tables("unidad").Rows(0).Item("orden")
cmb_uni_orden_upd.SelectedIndex = orden - 1
txt_uni_nombre_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("nombre_unidad"))

Dim MyPath As String

If MyDataSet.Tables(0).Rows(0).Item("fondo") Is System.DBNull.Value Then
    MyPath = Application.StartupPath & "\defaults\None_Icon.png"
Else
    MyPath = Application.StartupPath & "\imgs\unidades\" &
Trim(MyDataSet.Tables(0).Rows(0).Item("fondo"))
End If
Cargar_Img(MyPath)
End Function
Private Function Cargar_Img(ByVal ruta As String)
Dim MyImage As New Bitmap(ruta)
Dim MyThumbNail As Image
Dim Tama As System.Drawing.Size
Tama = PB_Img.Size

MyThumbNail = MyImage.GetThumbnailImage(Tama.Width, Tama.Height, AddressOf
ThumbNailAbort, Nothing)
PB_Img.Image = MyThumbNail
End Function
Private Function ThumbNailAbort() As Boolean
'Do Nothing Here
End Function
Private Sub Cmb_uni_Upd_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_uni_Upd.SelectedIndexChanged
If Inicio = False Then
Ruta_Img = ""
cargar_datos()
End If
End Sub
Private Sub Tab_Uni_Eliminar_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Tab_Uni_Eliminar.Click

End Sub
Private Sub Tab_Uni_Eliminar_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Uni_Eliminar.Paint

If Ya_Ins_Del Or Ya_Upd_Del Then

Me.Cursor = Windows.Forms.Cursors.WaitCursor

Cmb_uni_del.Items.Clear()

Dim MyDataSet As New DataSet

With Adapter.SelectCommand
.CommandText = "SELECT * FROM unidad WHERE id_usuario=" & ID_Us_GLOBAL
.Connection = MyCon
End With

Try
MyCon.Open()
Adapter.Fill(MyDataSet, "unidad")
MyCon.Close()
Catch ex As Exception
MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

Dim indice, first As Integer
Dim nombre As String

Dim i As Integer
For i = 0 To MyDataSet.Tables("unidad").Rows.Count - 1
indice = MyDataSet.Tables("unidad").Rows(i).Item("id_unidad")
nombre = Trim(MyDataSet.Tables("unidad").Rows(i).Item("nombre_unidad"))

```

```

        Cmb_uni_del.Items.Add(nombre & SPACIOS & indice)
    Next
    Cmb_uni_del.SelectedIndex = Cmb_uni_del.Items.Count - 1

    Me.Cursor = Windows.Forms.Cursors.Default
    Ya_Upd_Del = False
    Ya_Ins_Del = False
End If
End Sub
Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Panel_open = False
    Me.Close()
End Sub
Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click
    If Trim(txt_uni_add_nombre.Text) = "" Then
        MsgBox("Nombre de la unidad vacia", MsgBoxStyle.Exclamation, "Validación")
        txt_uni_add_nombre.Focus()
        Return
    End If
    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    Dim name_u, orden As String

    name_u = Trim(txt_uni_add_nombre.Text)
    orden = cmb_uni_add.SelectedItem

    With Adapter.InsertCommand
        .Connection = MyCon
        .CommandText = "INSERT INTO unidad (nombre_unidad, orden, id_usuario) VALUES(' &
name_u & "', " & orden & ", " & ID_Us_GLOBAL & ")"
    End With

    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("Sus datos han sido introducidos Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")

    txt_uni_add_nombre.Text = ""

    Ya_Ins_Upd = True
    Ya_Ins_Del = True

End Sub
Private Sub B_Actualizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Actualizar.Click
    If Trim(txt_uni_nombre_upd.Text) = "" Then
        MsgBox("Nombre de la unidad vacia", MsgBoxStyle.Exclamation, "Validación")
        txt_uni_nombre_upd.Focus()
        Return
    End If

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim pos, orden As Integer
    Dim id_al, id_secc, cad, nombre As String

    pos = InStrRev(Cmb_uni_Upd.SelectedItem, " ")
    id_al = Mid(Cmb_uni_Upd.SelectedItem, pos + 1, Cmb_uni_Upd.SelectedItem.Length)

    nombre = txt_uni_nombre_upd.Text
    orden = cmb_uni_orden_upd.SelectedItem

```

```

'---Img
Dim Cut As Integer
Dim NImg, MyPath As String
Dim Fich As File
Cut = InStrRev(Ruta_Img, "\")
If Cut = 0 Then
    NImg = ""
Else
    NImg = Mid(Ruta_Img, Cut + 1, Ruta_Img.Length)
End If

MyPath = Application.StartupPath & "\imgs\unidades\" & NImg
If NImg <> "None_Icon.png" And NImg <> "" Then
    Fich.Copy(NImg, MyPath)
End If

If NImg = "None_Icon.png" Or NImg = "" Then
    cad = "UPDATE unidad SET nombre_unidad='" & nombre & "', orden=" & orden & " WHERE
id_unidad=" & id_al
Else
    cad = "UPDATE unidad SET nombre_unidad='" & nombre & "', orden=" & orden & ",
fondo='" & NImg & "' WHERE id_unidad=" & id_al
End If

With Adapter.UpdateCommand
    .CommandText = cad
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.UpdateCommand.ExecuteReader()
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

cargar_datos()

Me.Cursor = Windows.Forms.Cursors.Default

Cmb_uni_Upd.Items.Item(Cmb_uni_Upd.SelectedIndex) = nombre & SPACIOS & id_al
MsgBox("Sus datos han sido Actualizados Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")

Ya_Upd_Del = True
End Sub
Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
    Dim resp
    'resp = MsgBox("¿Realmente desea Elimar este registro?", MsgBoxStyle.YesNo, "Elimación
de Registros")
    resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
    If resp = 6 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        Dim pos As Integer
        Dim id_uni As String

        pos = InStrRev(Cmb_uni_del.SelectedItem, " ")
        id_uni = Mid(Cmb_uni_del.SelectedItem, pos + 1, Cmb_uni_del.SelectedItem.Length)

        If id_uni = Uni_1 Or id_uni = Uni_2 Or id_uni = Uni_3 Then
            MsgBox("No se puede eliminar La Unidad " & id_uni & _
                " debido a que es una de las unidades predeterminadas",
MsgBoxStyle.Exclamation, "EduCienSys")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End If
    End If

```

```

        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM unidad WHERE id_unidad=" & id_uni
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try
        'Dim Fich As File
        'Fich.Delete()

        Cmb_uni_del.Items.Remove(Cmb_uni_del.SelectedItem)

        If Cmb_uni_del.Items.Count > 0 Then
            Cmb_uni_del.SelectedIndex = Cmb_uni_del.Items.Count - 1
        Else
            B_Eliminar.Enabled = False
        End If

        Me.Cursor = Windows.Forms.Cursors.Default
        Ya_Del_Upd = True
        MsgBox("Registros Eliminados exitosamente", MsgBoxStyle.Information, "Eliminación de
Registros")
    End If
End Sub
Private Sub Tab_Uni_Actualizar_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Tab_Uni_Actualizar.Click

    End Sub

    Private Sub cmd_img_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles cmd_img.Click
        OpenFileDialog.Multiselect = False
        Dim ext As String
        Dim pos As Integer
        'Dim Fich As File
        OpenFileDialog = New OpenFileDialog
        OpenFileDialog.Filter = "Todos los archivos de Imágenes
(*.jpg;*.jpeg;*.gif;*.bmp;*.png)|*.jpg;*.jpeg;*.gif;*.bmp;*.png"
        OpenFileDialog.Title = "Archivos de Imágenes"

        If OpenFileDialog.ShowDialog() = DialogResult.OK Then
            pos = InStrRev(OpenFileDialog.FileName, ".")
            ext = Mid(OpenFileDialog.FileName, pos + 1, OpenFileDialog.FileName.Length)
            ext = ext.ToLower
            If ext = "jpeg" Or ext = "jpg" Or ext = "gif" Or ext = "bmp" Or ext = "png" Then
                Ruta_Img = OpenFileDialog.FileName
                Cargar_Img(Ruta_Img)
            Else
                MsgBox("El archivo: " & vbCrLf & OpenFileDialog.FileName & " no es uno de los
formatos de imagenes admitidos ", MsgBoxStyle.Exclamation, "EduCienSys")
            End If
        End If
    End Sub
End Sub
Private Sub frm_admin_unidades_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
        Panel_open = False
    End Sub
Private Function Conseguir_Primeros()

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT TOP 3 id_unidad FROM unidad WHERE id_usuario=" &
ID_Us_GLOBAL

```

```

        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "unidad")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    Uni_1 = MyDataSet.Tables("unidad").Rows(0).Item("id_unidad")
    Uni_2 = MyDataSet.Tables("unidad").Rows(1).Item("id_unidad")
    Uni_3 = MyDataSet.Tables("unidad").Rows(2).Item("id_unidad")

End Function
End Class

```

8. TEMAS

Nombre del Objeto: frm_admin_temas

Código:

```

Public Class frm_admin_temas
    Inherits System.Windows.Forms.Form
    Dim Ini_Ins, Ini_Upd, Ini_Del As Boolean
    Dim Ya_Ins_Upd As Boolean
    Dim Ya_Ins_Del As Boolean
    Dim Ya_Upd_Del As Boolean
    Dim Ya_Del_Upd As Boolean
    Dim Inicio, Inicio2 As boolean

```

Windows Form Designer generated code

```

Private Function cargar_datos()
    Dim pos_x As Integer
    Dim id_x As String

    pos_x = InStrRev(cmb_tema_upd_tema.SelectedItem, " ")
    id_x = Mid(cmb_tema_upd_tema.SelectedItem, pos_x + 1,
cmb_tema_upd_tema.SelectedItem.Length)

    Dim MyDataSet As New DataSet
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM temas WHERE id_tema=" & id_x
        .Connection = MyCon
    End With
    Adapter.Fill(MyDataSet)

    txt_tema_titulo_upd.Text = Trim(MyDataSet.Tables(0).Rows(0).Item("nombre_tema"))

    Dim id_uni, orden As Integer
    id_uni = MyDataSet.Tables(0).Rows(0).Item("id_unidad")
    orden = MyDataSet.Tables(0).Rows(0).Item("orden_tema")
    txt_orden.Text = orden

    If id_uni.ToString = "" Or id_uni = 0 Then
        cmb_tema_uni_upd.SelectedIndex = (cmb_tema_uni_upd.Items.Count() - 1)
    Else
        Dim i, indexreal, pos As Integer
        Dim id As String

```

```

        For i = 0 To (cmb_tema_uni_upd.Items.Count() - 1)
            cmb_tema_uni_upd.SelectedIndex = i

            pos = InStrRev(cmb_tema_uni_upd.SelectedItem, " ")
            id = Mid(cmb_tema_uni_upd.SelectedItem, pos + 1,
cmb_tema_uni_upd.SelectedItem.Length)

            If id = id_uni Then
                indexreal = i
            End If
        Next i
        cmb_tema_uni_upd.SelectedIndex = indexreal
    End If

End Function
Private Function cargar_datos_del()
    Dim pos_x As Integer
    Dim id_uni As String

    pos_x = InStrRev(cmb_tema_del_uni.SelectedItem, " ")
    id_uni = Mid(cmb_tema_del_uni.SelectedItem, pos_x + 1,
cmb_tema_del_uni.SelectedItem.Length)

    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM temas WHERE id_unidad=" & id_uni
        .Connection = MyCon
    End With

    Adapter.Fill(MyDataSet)

    Dim i As Integer
    Dim id_tem As Integer
    Dim nombre_tem As String

    chk_tema_del.Items.Clear()

    For i = 0 To MyDataSet.Tables(0).Rows.Count - 1
        nombre_tem = MyDataSet.Tables(0).Rows(i).Item("nombre_tema")
        id_tem = MyDataSet.Tables(0).Rows(i).Item("id_tema")
        chk_tema_del.Items.Add(nombre_tem & SPACIOS & id_tem)
    Next i
End Function
Private Sub frm_admin_temas_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    '-- PERMISOS --
    If PERM_ADD = False Then
        B_Agregar.Visible = False
    End If
    If PERM_UPD = False Then
        B_Actualizar.Visible = False
    End If
    If PERM_DEL = False Then
        B_Eliminar.Visible = False
    End If
    '--
    Ini_Ins = True
    Ini_Upd = True
    Ini_Del = True

    Ya_Ins_Upd = False
    Ya_Ins_Del = False
    Ya_Upd_Del = False
    Ya_Del_Upd = False
    Inicio = True
    Inicio2 = True

    cmb_tema_add_orden.SelectedIndex = 0

End Sub
Private Sub frm_admin_temas_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed

```



```

        Panel_open = False
    End Sub
    Private Sub Tab_Tema_Add_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Tema_Add.Paint

        If Ini_Ins Then

            Me.Cursor = Windows.Forms.Cursors.WaitCursor
            cmb_tema_uni_add.Items.Clear()

            Dim MyDataSet As New DataSet
            With Adapter.SelectCommand
                .CommandText = "SELECT * FROM unidad WHERE id_usuario=" & ID_Us_GLOBAL
                .Connection = MyCon
            End With
            Try
                MyCon.Open()
                Adapter.Fill(MyDataSet, "unidad")
                MyCon.Close()
            Catch ex As Exception
                MessageBox.Show("Se ha producido la siguiente excepción:" _
                    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
                Me.Cursor = Windows.Forms.Cursors.Default
                Return
            End Try

            Dim indice, first As Integer
            Dim nombre As String
            Dim i As Integer

            For i = 0 To MyDataSet.Tables("unidad").Rows.Count - 1
                nombre = MyDataSet.Tables("unidad").Rows(i).Item("nombre_unidad")
                indice = MyDataSet.Tables("unidad").Rows(i).Item("id_unidad")
                cmb_tema_uni_add.Items.Add(nombre & SPACIOS & indice)
            Next

            cmb_tema_uni_add.SelectedIndex = cmb_tema_uni_add.Items.Count - 1
            Me.Cursor = Windows.Forms.Cursors.Default

            Ini_Ins = False
        End If
    End Sub
    Private Sub Tab_Tema_Upd_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Tema_Upd.Paint
        If Ini_Upd Or Ya_Ins_Upd Or Ya_Del_Upd Then
            Me.Cursor = Windows.Forms.Cursors.WaitCursor

            cmb_tema_upd_tema.Items.Clear()
            cmb_tema_uni_upd.Items.Clear()

            Dim MyDataSet As New DataSet

            With Adapter.SelectCommand
                .CommandText = "SELECT * FROM unidad WHERE id_usuario=" & ID_Us_GLOBAL & "
ORDER BY orden "
                .Connection = MyCon
            End With

            Try
                MyCon.Open()
                Adapter.Fill(MyDataSet, "unidades")
                MyCon.Close()
            Catch ex As Exception
                MessageBox.Show("Se ha producido la siguiente excepción:" _
                    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
                Me.Cursor = Windows.Forms.Cursors.Default
                Return
            End Try

            Dim indice As Integer
            Dim nombre As String

            Dim i As Integer

```

```

For i = 0 To MyDataSet.Tables("unidades").Rows.Count - 1
    nombre = Trim(MyDataSet.Tables("unidades").Rows(i).Item("nombre_unidad"))
    indice = MyDataSet.Tables("unidades").Rows(i).Item("id_unidad")
    cmb_tema_uni_upd.Items.Add(nombre & SPACIOS & indice)
Next
cmb_tema_uni_upd.SelectedIndex = cmb_tema_uni_upd.Items.Count - 1

With Adapter.SelectCommand
    .CommandText = "SELECT DISTINCT T.id_tema, T.id_unidad, T.nombre_tema,
T.orden_tema " & _
    "FROM temas T, unidad U, usuarios Us WHERE T.id_unidad = U.id_unidad " & _
    "AND U.id_usuario = " & ID_Us_GLOBAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "temas")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" & _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try
If MyDataSet.Tables("temas").Rows.Count > 0 Then
    For i = 0 To MyDataSet.Tables("temas").Rows.Count - 1
        nombre = Trim(MyDataSet.Tables("temas").Rows(i).Item("nombre_tema"))
        indice = MyDataSet.Tables("temas").Rows(i).Item("id_tema")
        cmb_tema_upd_tema.Items.Add(nombre & SPACIOS & indice)
    Next
    cmb_tema_upd_tema.SelectedIndex = 0
    cargar_datos()
    Inicio = False
    If cmb_tema_upd_tema.Items.Count > 0 Then
        cmb_tema_upd_tema.SelectedIndex = cmb_tema_upd_tema.Items.Count - 1
    End If
Else
    Me.Cursor = Windows.Forms.Cursors.Default
    Ya_Ins_Upd = False
    Ya_Del_Upd = False
    Ini_Upd = False
    MsgBox("No hay temas introducidos para este usuario", MsgBoxStyle.Exclamation,
"Confirmación de Datos")
    Return
End If

Me.Cursor = Windows.Forms.Cursors.Default
Ya_Ins_Upd = False
Ya_Del_Upd = False
Ini_Upd = False

End If
End Sub
Private Sub cmb_tema_upd_tema_SelectedIndexChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles cmb_tema_upd_tema.SelectedIndexChanged
    If Inicio = False Then
        cargar_datos()
    End If
End Sub
Private Sub Tab_Tema_Del_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles Tab_Tema_Del.Paint
    If Ini_Del Or Ya_Ins_Del Or Ya_Upd_Del Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        cmb_tema_del_uni.Items.Clear()

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM unidad WHERE id_usuario=" & ID_Us_GLOBAL & "ORDER
BY orden ASC"
            .Connection = MyCon

```

```

End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "Unidades")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

Dim indice As Integer
Dim nombre As String

Dim i As Integer
For i = 0 To MyDataSet.Tables("Unidades").Rows.Count - 1
    nombre = MyDataSet.Tables("Unidades").Rows(i).Item("nombre_unidad")
    indice = MyDataSet.Tables("Unidades").Rows(i).Item("id_unidad")
    cmb_tema_del_uni.Items.Add(nombre & SPACIOS & indice)
Next
cmb_tema_del_uni.SelectedIndex = cmb_tema_del_uni.Items.Count - 1

Me.Cursor = Windows.Forms.Cursors.Default
Inicio2 = False
'cargar_datos_del()
Ya_Ins_Del = False
Ya_Upd_Del = False
Ini_Del = False
End If
End Sub
Private Sub cmb_tema_del_uni_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_tema_del_uni.SelectedIndexChanged
    If Inicio2 = False Then
        cargar_datos_del()
    End If
End Sub
Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Me.Close()
End Sub
Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click
    If Trim(txt_tema_name_add.Text) = "" Then
        MsgBox("Nombre del tema vacio", MsgBoxStyle.Exclamation, "Validación")
        txt_tema_name_add.Focus()
        Return
    End If

    '---Fin Validar---
    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim pos As Integer
    Dim id_uni As String

    pos = InStrRev(cmb_tema_uni_add.SelectedItem, " ")
    id_uni = Mid(cmb_tema_uni_add.SelectedItem, pos + 1,
cmb_tema_uni_add.SelectedItem.Length)

    Dim name, orden As String

    name = txt_tema_name_add.Text
    orden = cmb_tema_add_orden.SelectedItem

    With Adapter.InsertCommand
        .Connection = MyCon
        .CommandText = "INSERT INTO temas (id_unidad, nombre_tema, orden_tema) VALUES (" &
id_uni & ", '" & name & "', " & orden & ")"
    End With

    Try

```

```

        MyCon.Open()
        Adapter.InsertCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("Sus datos han sido introducidos Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")
    txt_tema_name_add.Text = ""

    Ya_Ins_Upd = True
    Ya_Ins_Del = True
End Sub
Private Sub B_Actualizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Actualizar.Click
    If Trim(txt_tema_titulo_upd.Text) = "" Then
        MsgBox("Título del tema vacío", MsgBoxStyle.Exclamation, "Validación")
        txt_tema_titulo_upd.Focus()
        Return
    End If
    If Val(txt_orden.Text) <= 0 Then
        MsgBox("Introduzca un orden válido del tema", MsgBoxStyle.Exclamation,
"Validación")
        txt_orden.Focus()
        Return
    End If

    '---Fin Validar---

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim pos As Integer
    Dim id_tema, id_uni As String

    pos = InStrRev(cmb_tema_upd_tema.SelectedItem, " ")
    id_tema = Mid(cmb_tema_upd_tema.SelectedItem, pos + 1,
cmb_tema_upd_tema.SelectedItem.Length)

    pos = InStrRev(cmb_tema_uni_upd.SelectedItem, " ")
    id_uni = Mid(cmb_tema_uni_upd.SelectedItem, pos + 1,
cmb_tema_uni_upd.SelectedItem.Length)

    Dim nombre As String
    Dim orden As Integer

    nombre = txt_tema_titulo_upd.Text
    orden = Val(txt_orden.Text)

    With Adapter.UpdateCommand
        .CommandText = "UPDATE temas SET id_unidad=" & id_uni & ", nombre_tema=" & nombre
& "", orden_tema=" & orden.ToString & " WHERE id_tema=" & id_tema
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.UpdateCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Me.Cursor = Windows.Forms.Cursors.Default

    txt_tema_titulo_upd.Text = ""

```

```

        cmb_tema_upd_tema.Items.Item(cmb_tema_upd_tema.SelectedIndex) = nombre & SPACIOS &
id_tema
        MsgBox("Sus datos han sido Actualizados Exitosamente", MsgBoxStyle.Information,
"Confirmación de Datos")

        Ya_Upd_Del = True
    End Sub
    Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
        Dim j As Integer
        Dim Checkeado As Boolean
        Checkeado = False
        For j = 0 To chk_tema_del.Items.Count - 1
            If chk_tema_del.GetItemChecked(j) Then
                Checkeado = True
            End If
        Next

        If Checkeado = False Then
            MsgBox("No se ha seleccionado ningún elemento", MsgBoxStyle.Exclamation,
"Validación de Datos")
            Return
        End If

        Dim resp
        'resp = MsgBox("¿Realmente desea Elimar este registro?", MsgBoxStyle.YesNo, "Elimación
de Registros")
        resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
        If resp = 6 Then
            Dim id_tem, cad, Cad_Where As String

            cad = "DELETE FROM temas WHERE "
            Cad_Where = ""
            Dim i, pos As Integer
            For i = 0 To chk_tema_del.Items.Count - 1
                If chk_tema_del.GetItemChecked(i) Then
                    chk_tema_del.SelectedIndex = i

                    pos = InStrRev(chk_tema_del.SelectedItem, " ")
                    id_tem = Mid(chk_tema_del.SelectedItem, pos + 1,
chk_tema_del.SelectedItem.Length)

                    If Cad_Where = "" Then
                        Cad_Where = "id_tema=" & id_tem
                    Else
                        Cad_Where = Cad_Where & " OR id_tema=" & id_tem
                    End If
                End If
            Next
            cad = cad & Cad_Where

            With Adapter.DeleteCommand
                .CommandText = cad
                .Connection = MyCon
            End With

            Try
                MyCon.Open()
                Adapter.DeleteCommand.ExecuteNonQuery()
                MyCon.Close()
            Catch ex As Exception
                MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
                Me.Cursor = Windows.Forms.Cursors.Default
            Return
            End Try

            cargar_datos_del()

            '----Variables de entorno
            Ya_Del_Upd = True

```

```

        MsgBox("Datos eliminados exitosamente", MsgBoxStyle.Information, "Elimación de
Registros")
    End If
End Sub
End Class

```

9. AGREGAR EVALUACIONES

Nombre del Objeto: frm_admin_eval_add

Código:

```

Public Class frm_admin_eval_add0
    Inherits System.Windows.Forms.Form
    '---Num Preguntas
    Dim num_q_opc, num_q_fv, num_q_par As Integer

    '---Para los indices en los combos
    Dim i_q1, i_q2, i_q3, i_q4, i_q5 As Integer
    Dim i_q21, i_q22, i_q23, i_q24, i_q25 As Integer

    '---Valores del inicio
    Dim Ini_cmb_uni As Boolean

    '--- Global del tema
    Dim id_tema_g As Integer

```

Windows Form Designer generated code

```

    Private Sub frm_admin_eval_add0_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        Dim x As System.Drawing.Size
        Dim Tam_Pan As System.Drawing.Size
        Dim z As System.Drawing.Point

        z.X = 0
        z.Y = 0
        Tam_Pan.Width = 440
        Tam_Pan.Height = 462
        '--Tamaño paneles
        panel_opc.Size = Tam_Pan
        panel_opc2.Size = Tam_Pan
        panel_fv.Size = Tam_Pan
        panel_fv2.Size = Tam_Pan
        panel_par.Size = Tam_Pan
        panel_par2.Size = Tam_Pan

        '--Pos Paneles
        panel_opc.Location = z
        panel_opc2.Location = z
        panel_fv.Location = z
        panel_fv2.Location = z
        panel_par.Location = z
        panel_par2.Location = z

        x.Width = 440
        x.Height = 482

        Me.Size = x
        'Me.Location = z
        panel_add.Visible = True

        '----variables del form
        num_q_opc = 0
        num_q_fv = 0
        num_q_par = 0

```

```

'---Iniciamos primer form
cmb_opc_add.SelectedIndex = 0
cmb_vf_add.SelectedIndex = 0
cmb_par_add.SelectedIndex = 0

'--- Indices de los combos
i_q1 = 0
i_q2 = 0
i_q3 = 0
i_q4 = 0
i_q5 = 0
i_q21 = 0
i_q22 = 0
i_q23 = 0
i_q24 = 0
i_q25 = 0

Cmb_opc_1.SelectedIndex = 0
Cmb_opc_2.SelectedIndex = 0
Cmb_opc_3.SelectedIndex = 0
Cmb_opc_4.SelectedIndex = 0
Cmb_opc_5.SelectedIndex = 0
Cmb_opc_21.SelectedIndex = 0
Cmb_opc_22.SelectedIndex = 0
Cmb_opc_23.SelectedIndex = 0
Cmb_opc_24.SelectedIndex = 0
Cmb_opc_25.SelectedIndex = 0
cmb_par_resp1.SelectedIndex = 0
cmb_par_resp2.SelectedIndex = 0
cmb_par_resp3.SelectedIndex = 0
cmb_par_resp4.SelectedIndex = 0
cmb_par_resp5.SelectedIndex = 0
cmb_par_respX.SelectedIndex = 0
cmb_par_resp21.SelectedIndex = 0
cmb_par_resp22.SelectedIndex = 0
cmb_par_resp23.SelectedIndex = 0
cmb_par_resp24.SelectedIndex = 0
cmb_par_resp25.SelectedIndex = 0
Cmb_Opc_Resp1.SelectedIndex = 0
Cmb_Opc_Resp2.SelectedIndex = 0
Cmb_Opc_Resp3.SelectedIndex = 0
Cmb_Opc_Resp4.SelectedIndex = 0
Cmb_Opc_Resp5.SelectedIndex = 0
Cmb_Opc_Resp21.SelectedIndex = 0
Cmb_Opc_Resp22.SelectedIndex = 0
Cmb_Opc_Resp23.SelectedIndex = 0
Cmb_Opc_Resp24.SelectedIndex = 0
Cmb_Opc_Resp25.SelectedIndex = 0

'--- Combos 1
cmb_opc_add.SelectedIndex = 0
cmb_vf_add.SelectedIndex = 0
cmb_par_add.SelectedIndex = 0
Cmb_T_maximo.SelectedIndex = 0

'--- Paneles
Hide_all_panels()
panel_add.Visible = True
z.X = 0
z.Y = 0
panel_add.Location = z

'----- Cargar la info
Ini_cmb_uni = True
Me.Cursor = Windows.Forms.Cursors.WaitCursor

cmb_uni_add.Items.Clear()

Dim MyDataSet As New DataSet

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM unidad WHERE id_usuario=" & ID_Us_GLOBAL

```

```

        .Connection = MyCon
    End With
    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "unidad")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try
    Dim indice As Integer
    Dim nombre As String

    Dim i As Integer
    For i = 0 To MyDataSet.Tables("unidad").Rows.Count - 1
        nombre = MyDataSet.Tables("unidad").Rows(i).Item("nombre_unidad")
        indice = MyDataSet.Tables("unidad").Rows(i).Item("id_unidad")
        cmb_uni_add.Items.Add(nombre & SPACIOS & indice)
    Next
    cmb_uni_add.SelectedIndex = cmb_uni_add.Items.Count - 1

    cargar_datos()
    Ini_cmb_uni = False

    Me.Cursor = Windows.Forms.Cursors.Default

    '---- INICIAR EL ID GENERAL DEL TEMA
    id_tema_g = 0

End Sub
Private Function Hide_all_panels()
    panel_add.Visible = False
    panel_opc.Visible = False
    panel_fv.Visible = False
    panel_par.Visible = False

    panel_opc2.Visible = False
    panel_fv2.Visible = False
    panel_par2.Visible = False
End Function
Private Function cargar_datos()
    Dim pos_x As Integer
    Dim id_uni As String

    pos_x = InStrRev(cmb_uni_add.SelectedItem, " ")
    id_uni = Mid(cmb_uni_add.SelectedItem, pos_x + 1, cmb_uni_add.SelectedItem.Length)

    Dim MyDataSet As New DataSet
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM temas WHERE id_unidad=" & id_uni
        .Connection = MyCon
    End With
    Adapter.Fill(MyDataSet)
    Dim i As Integer
    Dim id_al As Integer
    Dim nombre_al As String

    chk_tema_add.Items.Clear()

    For i = 0 To MyDataSet.Tables(0).Rows.Count - 1
        nombre_al = MyDataSet.Tables(0).Rows(i).Item("nombre_tema")
        id_al = MyDataSet.Tables(0).Rows(i).Item("id_tema")
        chk_tema_add.Items.Add(nombre_al & SPACIOS & id_al)
    Next i
End Function
Private Sub cmb_uni_add_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_uni_add.SelectedIndexChanged
    If Ini_cmb_uni = False Then
        cargar_datos()
    End If
End Sub

```



```

    End If
End Sub
Private Sub chk_tema_add_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_tema_add.SelectedIndexChanged
    Dim index As Integer
    index = chk_tema_add.SelectedIndex
    Dim i As Integer

    For i = 0 To chk_tema_add.Items.Count - 1

        If i = index Then
            chk_tema_add.SetItemCheckState(i, CheckState.Checked)
        Else
            chk_tema_add.SetItemCheckState(i, CheckState.Unchecked)
        End If

    Next

End Sub
Private Function Mostrar_Panel_opc()
    If num_q_opc >= 1 Then
        txt_opc_p1.Visible = True
        Cmb_opc_1.Visible = True
        lbl_opc_1.Visible = True
        lbl_opc_opc1.Visible = True
        cmb_par_resp1.Visible = True
        Cmb_Opc_Resp1.Visible = True
    Else
        txt_opc_p1.Visible = False
        Cmb_opc_1.Visible = False
        lbl_opc_1.Visible = False
        lbl_opc_opc1.Visible = False
        cmb_par_resp1.Visible = False
        Cmb_Opc_Resp1.Visible = False
    End If

    If num_q_opc >= 2 Then
        txt_opc_p2.Visible = True
        Cmb_opc_2.Visible = True
        lbl_opc_2.Visible = True
        lbl_opc_opc2.Visible = True
        cmb_par_resp2.Visible = True
        Cmb_Opc_Resp2.Visible = True
    Else
        txt_opc_p2.Visible = False
        Cmb_opc_2.Visible = False
        lbl_opc_2.Visible = False
        lbl_opc_opc2.Visible = False
        cmb_par_resp2.Visible = False
        Cmb_Opc_Resp2.Visible = False
    End If

    If num_q_opc >= 3 Then
        txt_opc_p3.Visible = True
        Cmb_opc_3.Visible = True
        lbl_opc_3.Visible = True
        lbl_opc_opc3.Visible = True
        cmb_par_resp3.Visible = True
        Cmb_Opc_Resp3.Visible = True
    Else
        txt_opc_p3.Visible = False
        Cmb_opc_3.Visible = False
        lbl_opc_3.Visible = False
        lbl_opc_opc3.Visible = False
        cmb_par_resp3.Visible = False
        Cmb_Opc_Resp3.Visible = False
    End If

    If num_q_opc >= 4 Then
        txt_opc_p4.Visible = True
        Cmb_opc_4.Visible = True
        lbl_opc_4.Visible = True
        lbl_opc_opc4.Visible = True
    End If

```

```

        cmb_par_resp4.Visible = True
        Cmb_Opc_Resp4.Visible = True
Else
    txt_opc_p4.Visible = False
    Cmb_opc_4.Visible = False
    lbl_opc_4.Visible = False
    lbl_opc_opc4.Visible = False
    cmb_par_resp4.Visible = False
    Cmb_Opc_Resp4.Visible = False
End If

If num_q_opc >= 5 Then
    txt_opc_p5.Visible = True
    Cmb_opc_5.Visible = True
    lbl_opc_5.Visible = True
    lbl_opc_opc5.Visible = True
    cmb_par_resp5.Visible = True
    Cmb_Opc_Resp5.Visible = True
Else
    txt_opc_p5.Visible = False
    Cmb_opc_5.Visible = False
    lbl_opc_5.Visible = False
    lbl_opc_opc5.Visible = False
    cmb_par_resp5.Visible = False
    Cmb_Opc_Resp5.Visible = False
End If

End Function
Private Function Mostrar_Panel_opc2()
    If num_q_opc >= 1 Then
        txt_opc_p21.Visible = True
        Cmb_opc_21.Visible = True
        lbl_opc_21.Visible = True
        lbl_opc_opc21.Visible = True
        cmb_par_resp21.Visible = True
        Cmb_Opc_Resp21.Visible = True
    Else
        txt_opc_p21.Visible = False
        Cmb_opc_21.Visible = False
        lbl_opc_21.Visible = False
        lbl_opc_opc21.Visible = False
        cmb_par_resp21.Visible = False
        Cmb_Opc_Resp21.Visible = False
    End If

    If num_q_opc >= 2 Then
        txt_opc_p22.Visible = True
        Cmb_opc_22.Visible = True
        lbl_opc_22.Visible = True
        lbl_opc_opc22.Visible = True
        cmb_par_resp22.Visible = True
        Cmb_Opc_Resp22.Visible = True
    Else
        txt_opc_p22.Visible = False
        Cmb_opc_22.Visible = False
        lbl_opc_22.Visible = False
        lbl_opc_opc22.Visible = False
        cmb_par_resp22.Visible = False
        Cmb_Opc_Resp22.Visible = False
    End If

    If num_q_opc >= 3 Then
        txt_opc_p23.Visible = True
        Cmb_opc_23.Visible = True
        lbl_opc_23.Visible = True
        lbl_opc_opc23.Visible = True
        cmb_par_resp23.Visible = True
        Cmb_Opc_Resp23.Visible = True
    Else
        txt_opc_p23.Visible = False
        Cmb_opc_23.Visible = False
        lbl_opc_23.Visible = False
        lbl_opc_opc23.Visible = False
    End If

```

```

        cmb_par_resp23.Visible = False
        Cmb_Opc_Resp23.Visible = False
    End If

    If num_q_opc >= 4 Then
        txt_opc_p24.Visible = True
        Cmb_opc_24.Visible = True
        lbl_opc_24.Visible = True
        lbl_opc_opc24.Visible = True
        cmb_par_resp24.Visible = True
        Cmb_Opc_Resp24.Visible = True
    Else
        txt_opc_p24.Visible = False
        Cmb_opc_24.Visible = False
        lbl_opc_24.Visible = False
        lbl_opc_opc24.Visible = False
        cmb_par_resp24.Visible = False
        Cmb_Opc_Resp24.Visible = False
    End If

    If num_q_opc >= 5 Then
        txt_opc_p25.Visible = True
        Cmb_opc_25.Visible = True
        lbl_opc_25.Visible = True
        lbl_opc_opc25.Visible = True
        cmb_par_resp25.Visible = True
        Cmb_Opc_Resp25.Visible = True
    Else
        txt_opc_p25.Visible = False
        Cmb_opc_25.Visible = False
        lbl_opc_25.Visible = False
        lbl_opc_opc25.Visible = False
        cmb_par_resp25.Visible = False
        Cmb_Opc_Resp25.Visible = False
    End If

End Function
Private Function Mostrar_Panel_vf()
    If num_q_fv >= 1 Then
        lbl_fv_1.Visible = True
        txt_fv_p1.Visible = True
        chk_fv_1.Visible = True
    Else
        lbl_fv_1.Visible = False
        txt_fv_p1.Visible = False
        chk_fv_1.Visible = False
    End If

    If num_q_fv >= 2 Then
        lbl_fv_2.Visible = True
        txt_fv_p2.Visible = True
        chk_fv_2.Visible = True
    Else
        lbl_fv_2.Visible = False
        txt_fv_p2.Visible = False
        chk_fv_2.Visible = False
    End If

    If num_q_fv >= 3 Then
        lbl_fv_3.Visible = True
        txt_fv_p3.Visible = True
        chk_fv_3.Visible = True
    Else
        lbl_fv_3.Visible = False
        txt_fv_p3.Visible = False
        chk_fv_3.Visible = False
    End If

    If num_q_fv >= 4 Then
        lbl_fv_4.Visible = True
        txt_fv_p4.Visible = True
        chk_fv_4.Visible = True
    Else

```

```

        lbl_fv_4.Visible = False
        txt_fv_p4.Visible = False
        chk_fv_4.Visible = False
    End If

    If num_q_fv >= 5 Then
        lbl_fv_5.Visible = True
        txt_fv_p5.Visible = True
        chk_fv_5.Visible = True
    Else
        lbl_fv_5.Visible = False
        txt_fv_p5.Visible = False
        chk_fv_5.Visible = False
    End If

End Function
Private Function Mostrar_Panel_vf2()

    If num_q_fv >= 1 Then
        lbl_fv_21.Visible = True
        txt_fv_p21.Visible = True
        chk_fv_21.Visible = True
    Else
        lbl_fv_21.Visible = False
        txt_fv_p21.Visible = False
        chk_fv_21.Visible = False
    End If

    If num_q_fv >= 2 Then
        lbl_fv_22.Visible = True
        txt_fv_p22.Visible = True
        chk_fv_22.Visible = True
    Else
        lbl_fv_22.Visible = False
        txt_fv_p22.Visible = False
        chk_fv_22.Visible = False
    End If

    If num_q_fv >= 3 Then
        lbl_fv_23.Visible = True
        txt_fv_p23.Visible = True
        chk_fv_23.Visible = True
    Else
        lbl_fv_23.Visible = False
        txt_fv_p23.Visible = False
        chk_fv_23.Visible = False
    End If

    If num_q_fv >= 4 Then
        lbl_fv_24.Visible = True
        txt_fv_p24.Visible = True
        chk_fv_24.Visible = True
    Else
        lbl_fv_24.Visible = False
        txt_fv_p24.Visible = False
        chk_fv_24.Visible = False
    End If

    If num_q_fv >= 5 Then
        lbl_fv_25.Visible = True
        txt_fv_p25.Visible = True
        chk_fv_25.Visible = True
    Else
        lbl_fv_25.Visible = False
        txt_fv_p25.Visible = False
        chk_fv_25.Visible = False
    End If

End Function
Private Function Mostrar_Panel_par()
    cmb_par_resp1.Items.Clear()
    cmb_par_resp2.Items.Clear()
    cmb_par_resp3.Items.Clear()
    cmb_par_resp4.Items.Clear()

```

```

cmb_par_resp5.Items.Clear()
cmb_par_respX.Items.Clear()
Dim i As Integer
For i = 1 To num_q_par
    If i = 1 Then
        cmb_par_resp1.Items.Add("A")
        cmb_par_resp2.Items.Add("A")
        cmb_par_resp3.Items.Add("A")
        cmb_par_resp4.Items.Add("A")
        cmb_par_resp5.Items.Add("A")
        cmb_par_respX.Items.Add("A")
    End If
    If i = 2 Then
        cmb_par_resp1.Items.Add("B")
        cmb_par_resp2.Items.Add("B")
        cmb_par_resp3.Items.Add("B")
        cmb_par_resp4.Items.Add("B")
        cmb_par_resp5.Items.Add("B")
        cmb_par_respX.Items.Add("B")
    End If
    If i = 3 Then
        cmb_par_resp1.Items.Add("C")
        cmb_par_resp2.Items.Add("C")
        cmb_par_resp3.Items.Add("C")
        cmb_par_resp4.Items.Add("C")
        cmb_par_resp5.Items.Add("C")
        cmb_par_respX.Items.Add("C")
    End If
    If i = 4 Then
        cmb_par_resp1.Items.Add("D")
        cmb_par_resp2.Items.Add("D")
        cmb_par_resp3.Items.Add("D")
        cmb_par_resp4.Items.Add("D")
        cmb_par_resp5.Items.Add("D")
        cmb_par_respX.Items.Add("D")
    End If
    If i = 5 Then
        cmb_par_resp1.Items.Add("E")
        cmb_par_resp2.Items.Add("E")
        cmb_par_resp3.Items.Add("E")
        cmb_par_resp4.Items.Add("E")
        cmb_par_resp5.Items.Add("E")
        cmb_par_respX.Items.Add("E")
    End If
Next
cmb_par_resp1.Items.Add("VACIO")
cmb_par_resp2.Items.Add("VACIO")
cmb_par_resp3.Items.Add("VACIO")
cmb_par_resp4.Items.Add("VACIO")
cmb_par_resp5.Items.Add("VACIO")
cmb_par_respX.Items.Add("VACIO")

cmb_par_resp1.SelectedIndex = 0
cmb_par_resp2.SelectedIndex = 0
cmb_par_resp3.SelectedIndex = 0
cmb_par_resp4.SelectedIndex = 0
cmb_par_resp5.SelectedIndex = 0
cmb_par_respX.SelectedIndex = 0

If num_q_par >= 1 Then
    lbl_par_q1.Visible = True
    txt_par_q1.Visible = True
    lbl_par_1.Visible = True
    txt_par_r1.Visible = True
    cmb_par_resp1.Visible = True
Else
    lbl_par_q1.Visible = False
    txt_par_q1.Visible = False
    lbl_par_1.Visible = False
    txt_par_r1.Visible = False
    cmb_par_resp1.Visible = False
End If

```

```

If num_q_par >= 2 Then
    lbl_par_q2.Visible = True
    txt_par_q2.Visible = True
    lbl_par_2.Visible = True
    txt_par_r2.Visible = True
    cmb_par_resp2.Visible = True
Else
    lbl_par_q2.Visible = False
    txt_par_q2.Visible = False
    lbl_par_2.Visible = False
    txt_par_r2.Visible = False
    cmb_par_resp2.Visible = False
End If

If num_q_par >= 3 Then
    lbl_par_q3.Visible = True
    txt_par_q3.Visible = True
    lbl_par_3.Visible = True
    txt_par_r3.Visible = True
    cmb_par_resp3.Visible = True
Else
    lbl_par_q3.Visible = False
    txt_par_q3.Visible = False
    lbl_par_3.Visible = False
    txt_par_r3.Visible = False
    cmb_par_resp3.Visible = False
End If

If num_q_par >= 4 Then
    lbl_par_q4.Visible = True
    txt_par_q4.Visible = True
    lbl_par_4.Visible = True
    txt_par_r4.Visible = True
    cmb_par_resp4.Visible = True
Else
    lbl_par_q4.Visible = False
    txt_par_q4.Visible = False
    lbl_par_4.Visible = False
    txt_par_r4.Visible = False
    cmb_par_resp4.Visible = False
End If

If num_q_par >= 5 Then
    lbl_par_q5.Visible = True
    txt_par_q5.Visible = True
    lbl_par_5.Visible = True
    txt_par_r5.Visible = True
    cmb_par_resp5.Visible = True
Else
    lbl_par_q5.Visible = False
    txt_par_q5.Visible = False
    lbl_par_5.Visible = False
    txt_par_r5.Visible = False
    cmb_par_resp5.Visible = False
End If

End Function
Private Function Mostrar_Panel_par2()

    cmb_par_resp21.Items.Clear()
    cmb_par_resp22.Items.Clear()
    cmb_par_resp23.Items.Clear()
    cmb_par_resp24.Items.Clear()
    cmb_par_resp25.Items.Clear()
    Dim i As Integer
    For i = 1 To num_q_par
        If i = 1 Then
            cmb_par_resp21.Items.Add("A")
            cmb_par_resp22.Items.Add("A")
            cmb_par_resp23.Items.Add("A")
            cmb_par_resp24.Items.Add("A")
            cmb_par_resp25.Items.Add("A")
        End If
    End For
End Function

```

```

If i = 2 Then
    cmb_par_resp21.Items.Add("B")
    cmb_par_resp22.Items.Add("B")
    cmb_par_resp23.Items.Add("B")
    cmb_par_resp24.Items.Add("B")
    cmb_par_resp25.Items.Add("B")
End If
If i = 3 Then
    cmb_par_resp21.Items.Add("C")
    cmb_par_resp22.Items.Add("C")
    cmb_par_resp23.Items.Add("C")
    cmb_par_resp24.Items.Add("C")
    cmb_par_resp25.Items.Add("C")
End If
If i = 4 Then
    cmb_par_resp21.Items.Add("D")
    cmb_par_resp22.Items.Add("D")
    cmb_par_resp23.Items.Add("D")
    cmb_par_resp24.Items.Add("D")
    cmb_par_resp25.Items.Add("D")
End If
If i = 5 Then
    cmb_par_resp21.Items.Add("E")
    cmb_par_resp22.Items.Add("E")
    cmb_par_resp23.Items.Add("E")
    cmb_par_resp24.Items.Add("E")
    cmb_par_resp25.Items.Add("E")
End If
Next
cmb_par_resp21.Items.Add("VACIO")
cmb_par_resp22.Items.Add("VACIO")
cmb_par_resp23.Items.Add("VACIO")
cmb_par_resp24.Items.Add("VACIO")
cmb_par_resp25.Items.Add("VACIO")

cmb_par_resp21.SelectedIndex = 0
cmb_par_resp22.SelectedIndex = 0
cmb_par_resp23.SelectedIndex = 0
cmb_par_resp24.SelectedIndex = 0
cmb_par_resp25.SelectedIndex = 0

If num_q_par >= 1 Then
    lbl_par_q21.Visible = True
    txt_par_q21.Visible = True
    lbl_par_21.Visible = True
    txt_par_r21.Visible = True
    cmb_par_resp21.Visible = True
Else
    lbl_par_q21.Visible = False
    txt_par_q21.Visible = False
    lbl_par_21.Visible = False
    txt_par_r21.Visible = False
    cmb_par_resp21.Visible = False
End If

If num_q_par >= 2 Then
    lbl_par_q22.Visible = True
    txt_par_q22.Visible = True
    lbl_par_22.Visible = True
    txt_par_r22.Visible = True
    cmb_par_resp22.Visible = True
Else
    lbl_par_q22.Visible = False
    txt_par_q22.Visible = False
    lbl_par_22.Visible = False
    txt_par_r22.Visible = False
    cmb_par_resp22.Visible = False
End If

If num_q_par >= 3 Then
    lbl_par_q23.Visible = True
    txt_par_q23.Visible = True
    lbl_par_23.Visible = True

```

```

        txt_par_r23.Visible = True
        cmb_par_resp23.Visible = True
    Else
        lbl_par_q23.Visible = False
        txt_par_q23.Visible = False
        lbl_par_23.Visible = False
        txt_par_r23.Visible = False
        cmb_par_resp23.Visible = False
    End If

    If num_q_par >= 4 Then
        lbl_par_q24.Visible = True
        txt_par_q24.Visible = True
        lbl_par_24.Visible = True
        txt_par_r24.Visible = True
        cmb_par_resp24.Visible = True
    Else
        lbl_par_q24.Visible = False
        txt_par_q24.Visible = False
        lbl_par_24.Visible = False
        txt_par_r24.Visible = False
        cmb_par_resp24.Visible = False
    End If

    If num_q_par >= 5 Then
        lbl_par_q25.Visible = True
        txt_par_q25.Visible = True
        lbl_par_25.Visible = True
        txt_par_r25.Visible = True
        cmb_par_resp25.Visible = True
    Else
        lbl_par_q25.Visible = False
        txt_par_q25.Visible = False
        lbl_par_25.Visible = False
        txt_par_r25.Visible = False
        cmb_par_resp25.Visible = False
    End If

End Function

Private Sub Cmb_opc_1_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_1.SelectedIndexChanged
    i_q1 = Cmb_opc_1.SelectedIndex
End Sub

Private Sub Cmb_opc_1_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_1.KeyUp
    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_1.Text
        Cmb_opc_1.Items.RemoveAt(i_q1)
        Cmb_opc_1.Items.Insert(i_q1, text)
    End If
End Sub

Private Sub Cmb_opc_2_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_2.SelectedIndexChanged
    i_q2 = Cmb_opc_2.SelectedIndex
End Sub

Private Sub Cmb_opc_2_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_2.KeyUp

    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_2.Text
        Cmb_opc_2.Items.RemoveAt(i_q2)
        Cmb_opc_2.Items.Insert(i_q2, text)
    End If

End Sub

Private Sub Cmb_opc_3_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_3.SelectedIndexChanged
    i_q3 = Cmb_opc_3.SelectedIndex
End Sub

Private Sub Cmb_opc_3_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_3.KeyUp

```



```

    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_3.Text
        Cmb_opc_3.Items.RemoveAt(i_q3)
        Cmb_opc_3.Items.Insert(i_q3, text)
    End If
End Sub
Private Sub Cmb_opc_4_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_4.SelectedIndexChanged
    i_q4 = Cmb_opc_4.SelectedIndex
End Sub
Private Sub Cmb_opc_4_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_4.KeyUp
    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_4.Text
        Cmb_opc_4.Items.RemoveAt(i_q4)
        Cmb_opc_4.Items.Insert(i_q4, text)
    End If
End Sub
Private Sub Cmb_opc_5_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_5.SelectedIndexChanged
    i_q5 = Cmb_opc_5.SelectedIndex
End Sub
Private Sub Cmb_opc_5_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_5.KeyUp
    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_5.Text
        Cmb_opc_5.Items.RemoveAt(i_q5)
        Cmb_opc_5.Items.Insert(i_q5, text)
    End If
End Sub
Private Function Guardar_datos()
    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    'Decidir el tipo de eval
    Dim tipo_eval, num_preg As Integer
    tipo_eval = 0
    num_preg = num_q_opc + num_q_fv + num_q_par

    If num_q_opc > 0 And num_q_fv = 0 And num_q_par = 0 Then
        tipo_eval = 1
    End If
    If num_q_opc = 0 And num_q_fv > 0 And num_q_par = 0 Then
        tipo_eval = 2
    End If
    If num_q_opc = 0 And num_q_fv = 0 And num_q_par > 0 Then
        tipo_eval = 3
    End If
    If num_q_opc > 0 And num_q_fv > 0 And num_q_par = 0 Then
        tipo_eval = 4
    End If
    If num_q_opc > 0 And num_q_fv = 0 And num_q_par > 0 Then
        tipo_eval = 5
    End If
    If num_q_opc > 0 And num_q_fv > 0 And num_q_par > 0 Then
        tipo_eval = 6
    End If
    If num_q_opc = 0 And num_q_fv > 0 And num_q_par > 0 Then
        tipo_eval = 7
    End If
    Dim T_Max As String
    T_Max = Cmb_T_maximo.SelectedItem
    Dim Active As Integer

    If chk_activo.CheckState = CheckState.Checked Then
        Active = 1
    Else
        Active = 0
    End If

    With Adapter.InsertCommand

```

```

        .Connection = MyCon
        .CommandText = "INSERT INTO evaluaciones (id_tema, tipo_evaluacion, num_preguntas,
num_opc, num_fv, num_par, t_maximo, activado)" & _
        " VALUES(" & id_tema_g & ", " & tipo_eval & ", " & num_preg & ", " & num_q_opc &
        ", " & num_q_fv & ", " & num_q_par & ", " & T_Max & ", " & Active & ")"
    End With
    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    Dim MyDataset As New DataSet

    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT MAX(id_evaluacion) AS Maxi FROM evaluaciones"
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataset)
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    Dim id_eval As Integer

    id_eval = MyDataset.Tables(0).Rows(0).Item("Maxi")

    Dim i As Integer

    '-- DATOS DE LAS OPCIONES -----
    '-- PARTE 1

    If num_q_opc > 0 Then
        'Capturar los datos de las preguntas
        Dim texto_preg(num_q_opc - 1) As String
        Dim texto_resp(num_q_opc - 1, 2) As String
        Dim resp_corr(num_q_opc - 1) As String
        If num_q_opc >= 1 Then
            texto_preg(0) = txt_opc_p1.Text
            texto_resp(0, 0) = Cmb_opc_1.Items.Item(0)
            texto_resp(0, 1) = Cmb_opc_1.Items.Item(1)
            texto_resp(0, 2) = Cmb_opc_1.Items.Item(2)
            resp_corr(0) = Cmb_Opc_Resp1.SelectedItem
        End If
        If num_q_opc >= 2 Then
            texto_preg(1) = txt_opc_p2.Text
            texto_resp(1, 0) = Cmb_opc_2.Items.Item(0)
            texto_resp(1, 1) = Cmb_opc_2.Items.Item(1)
            texto_resp(1, 2) = Cmb_opc_2.Items.Item(2)
            resp_corr(1) = Cmb_Opc_Resp2.SelectedItem
        End If
        If num_q_opc >= 3 Then
            texto_preg(2) = txt_opc_p3.Text
            texto_resp(2, 0) = Cmb_opc_3.Items.Item(0)
            texto_resp(2, 1) = Cmb_opc_3.Items.Item(1)
            texto_resp(2, 2) = Cmb_opc_3.Items.Item(2)
            resp_corr(2) = Cmb_Opc_Resp3.SelectedItem
        End If
        If num_q_opc >= 4 Then

```

```

        texto_preg(3) = txt_opc_p4.Text
        texto_resp(3, 0) = Cmb_opc_4.Items.Item(0)
        texto_resp(3, 1) = Cmb_opc_4.Items.Item(1)
        texto_resp(3, 2) = Cmb_opc_4.Items.Item(2)
        resp_corr(3) = Cmb_Opc_Resp4.SelectedItem
    End If
    If num_q_opc >= 5 Then
        texto_preg(4) = txt_opc_p5.Text
        texto_resp(4, 0) = Cmb_opc_5.Items.Item(0)
        texto_resp(4, 1) = Cmb_opc_5.Items.Item(1)
        texto_resp(4, 2) = Cmb_opc_5.Items.Item(2)
        resp_corr(4) = Cmb_Opc_Resp5.SelectedItem
    End If

    For i = 1 To num_q_opc
        With Adapter.InsertCommand
            .Connection = MyCon
            .CommandText = "INSERT INTO preguntas_sm (id_evaluacion, texto_pregunta,
num_pregunta, a, b, c, correcta) VALUES(" & id_eval.ToString & ", '" & texto_preg(i - 1) & "',
" & i.ToString & ", '" & texto_resp(i - 1, 0) & "', '" & texto_resp(i - 1, 1) & "', '" &
texto_resp(i - 1, 2) & "', '" & resp_corr(i - 1) & "')"
        End With
        Try
            MyCon.Open()
            Adapter.InsertCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    Next
End If
'-- PARTE 2 OPC
If num_q_opc > 0 Then
    'Capturar los datos de las preguntas
    Dim texto_preg(num_q_opc - 1) As String
    Dim texto_resp(num_q_opc - 1, 2) As String
    Dim resp_corr(num_q_opc - 1) As String
    If num_q_opc >= 1 Then
        texto_preg(0) = txt_opc_p21.Text
        texto_resp(0, 0) = Cmb_opc_21.Items.Item(0)
        texto_resp(0, 1) = Cmb_opc_21.Items.Item(1)
        texto_resp(0, 2) = Cmb_opc_21.Items.Item(2)
        resp_corr(0) = Cmb_Opc_Resp21.SelectedItem
    End If
    If num_q_opc >= 2 Then
        texto_preg(1) = txt_opc_p22.Text
        texto_resp(1, 0) = Cmb_opc_22.Items.Item(0)
        texto_resp(1, 1) = Cmb_opc_22.Items.Item(1)
        texto_resp(1, 2) = Cmb_opc_22.Items.Item(2)
        resp_corr(1) = Cmb_Opc_Resp22.SelectedItem
    End If
    If num_q_opc >= 3 Then
        texto_preg(2) = txt_opc_p23.Text
        texto_resp(2, 0) = Cmb_opc_23.Items.Item(0)
        texto_resp(2, 1) = Cmb_opc_23.Items.Item(1)
        texto_resp(2, 2) = Cmb_opc_23.Items.Item(2)
        resp_corr(2) = Cmb_Opc_Resp23.SelectedItem
    End If
    If num_q_opc >= 4 Then
        texto_preg(3) = txt_opc_p24.Text
        texto_resp(3, 0) = Cmb_opc_24.Items.Item(0)
        texto_resp(3, 1) = Cmb_opc_24.Items.Item(1)
        texto_resp(3, 2) = Cmb_opc_24.Items.Item(2)
        resp_corr(3) = Cmb_Opc_Resp24.SelectedItem
    End If
    If num_q_opc >= 5 Then
        texto_preg(4) = txt_opc_p25.Text
        texto_resp(4, 0) = Cmb_opc_25.Items.Item(0)

```

```

        texto_resp(4, 1) = Cmb_opc_25.Items.Item(1)
        texto_resp(4, 2) = Cmb_opc_25.Items.Item(2)
        resp_corr(4) = Cmb_Opc_Resp25.SelectedItem
    End If

    For i = 1 To num_q_opc
        With Adapter.InsertCommand
            .Connection = MyCon
            .CommandText = "INSERT INTO preguntas_sm (id_evaluacion, texto_pregunta,
num_pregunta, a, b, c, correcta) VALUES(" & id_eval.ToString & ", '" & texto_preg(i - 1) & "',
" & i.ToString & ", '" & texto_resp(i - 1, 0) & "', '" & texto_resp(i - 1, 1) & "', '" &
texto_resp(i - 1, 2) & "', '" & resp_corr(i - 1) & "')"
        End With
        Try
            MyCon.Open()
            Adapter.InsertCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return Nothing
        End Try
    Next
End If

'--- DATOS DE FALSO Y VERDADERO ---
'--- PARTE 1

If num_q_fv > 0 Then
    'Capturar los datos de las preguntas
    Dim text_preg_vf(num_q_fv - 1) As String
    Dim text_resp_vf(num_q_fv - 1) As String

    If num_q_fv >= 1 Then
        text_preg_vf(0) = txt_fv_p1.Text
        If chk_fv_1.Checked Then
            text_resp_vf(0) = "V"
        Else
            text_resp_vf(0) = "F"
        End If
    End If

    If num_q_fv >= 2 Then
        text_preg_vf(1) = txt_fv_p2.Text
        If chk_fv_2.Checked Then
            text_resp_vf(1) = "V"
        Else
            text_resp_vf(1) = "F"
        End If
    End If

    If num_q_fv >= 3 Then
        text_preg_vf(2) = txt_fv_p3.Text
        If chk_fv_3.Checked Then
            text_resp_vf(2) = "V"
        Else
            text_resp_vf(2) = "F"
        End If
    End If

    If num_q_fv >= 4 Then
        text_preg_vf(3) = txt_fv_p4.Text
        If chk_fv_4.Checked Then
            text_resp_vf(3) = "V"
        Else
            text_resp_vf(3) = "F"
        End If
    End If

    If num_q_fv >= 5 Then
        text_preg_vf(4) = txt_fv_p5.Text
        If chk_fv_5.Checked Then

```

```

        text_resp_vf(4) = "V"
    Else
        text_resp_vf(4) = "F"
    End If
End If

For i = 1 To num_q_fv
    With Adapter.InsertCommand
        .Connection = MyCon
        .CommandText = "INSERT INTO preguntas_fv (id_evaluacion, texto_pregunta,
num_pregunta, respuesta) VALUES(" & id_eval.ToString & ", '" & text_preg_vf(i - 1) & "', '" &
i.ToString & ", '" & text_resp_vf(i - 1) & "'" )"
    End With
    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

Next
End If

'-- DATOS DE FALSO Y VERDADERO ---
'-- PARTE 2

If num_q_fv > 0 Then
    'Capturar los datos de las preguntas
    Dim text_preg_vf(num_q_fv - 1) As String
    Dim text_resp_vf(num_q_fv - 1) As String

    If num_q_fv >= 1 Then
        text_preg_vf(0) = txt_fv_p21.Text
        If chk_fv_21.Checked Then
            text_resp_vf(0) = "V"
        Else
            text_resp_vf(0) = "F"
        End If
    End If

    If num_q_fv >= 2 Then
        text_preg_vf(1) = txt_fv_p22.Text
        If chk_fv_22.Checked Then
            text_resp_vf(1) = "V"
        Else
            text_resp_vf(1) = "F"
        End If
    End If

    If num_q_fv >= 3 Then
        text_preg_vf(2) = txt_fv_p23.Text
        If chk_fv_23.Checked Then
            text_resp_vf(2) = "V"
        Else
            text_resp_vf(2) = "F"
        End If
    End If

    If num_q_fv >= 4 Then
        text_preg_vf(3) = txt_fv_p24.Text
        If chk_fv_24.Checked Then
            text_resp_vf(3) = "V"
        Else
            text_resp_vf(3) = "F"
        End If
    End If

    If num_q_fv >= 5 Then
        text_preg_vf(4) = txt_fv_p25.Text
    End If
End If

```

```

        If chk_fv_25.Checked Then
            text_resp_vf(4) = "V"
        Else
            text_resp_vf(4) = "F"
        End If
    End If
End If

For i = 1 To num_q_fv
    With Adapter.InsertCommand
        .Connection = MyCon
        .CommandText = "INSERT INTO preguntas_fv (id_evaluacion, texto_pregunta,
num_pregunta, respuesta) VALUES(" & id_eval.ToString & ", '" & text_preg_vf(i - 1) & "', " &
i.ToString & ", '" & text_resp_vf(i - 1) & "'" )"
    End With
    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

Next
End If

'--- DATOS DE PARENTESIS -- PARTE 1

If num_q_par > 0 Then
    'Capturar los datos de las preguntas
    Dim text_preg_par(num_q_par - 1) As String
    Dim text_resp_par(num_q_par, 1) As String

    If num_q_par >= 1 Then
        text_preg_par(0) = txt_par_q1.Text
        text_resp_par(0, 0) = txt_par_r1.Text
        text_resp_par(0, 1) = cmb_par_resp1.SelectedItem
    End If

    If num_q_par >= 2 Then
        text_preg_par(1) = txt_par_q2.Text
        text_resp_par(1, 0) = txt_par_r2.Text
        text_resp_par(1, 1) = cmb_par_resp2.SelectedItem
    End If

    If num_q_par >= 3 Then
        text_preg_par(2) = txt_par_q3.Text
        text_resp_par(2, 0) = txt_par_r3.Text
        text_resp_par(2, 1) = cmb_par_resp3.SelectedItem
    End If

    If num_q_par >= 4 Then
        text_preg_par(3) = txt_par_q4.Text
        text_resp_par(3, 0) = txt_par_r4.Text
        text_resp_par(3, 1) = cmb_par_resp4.SelectedItem
    End If

    If num_q_par >= 5 Then
        text_preg_par(4) = txt_par_q5.Text
        text_resp_par(4, 0) = txt_par_r5.Text
        text_resp_par(4, 1) = cmb_par_resp5.SelectedItem
    End If

    text_resp_par(num_q_par, 0) = txt_par_rx.Text
    text_resp_par(num_q_par, 1) = cmb_par_respX.SelectedItem

    '-----PREGUNTAS
    For i = 1 To num_q_par
        With Adapter.InsertCommand
            .Connection = MyCon

```

```

        .CommandText = "INSERT INTO preguntas_parentesis (id_evaluacion,
texto_pregunta, orden) VALUES(" & id_eval.ToString & ", '" & text_preg_par(i - 1) & "', " &
i.ToString & ")"
    End With
    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try
Next
'-----RESPUESTAS
Dim id_preg As Integer
Dim LETRA As String
For i = 1 To num_q_par
    If text_resp_par(i - 1, 1) <> "VACIO" Then
        If text_resp_par(i - 1, 1) = "A" Then
            LETRA = "1"
        End If
        If text_resp_par(i - 1, 1) = "B" Then
            LETRA = "2"
        End If
        If text_resp_par(i - 1, 1) = "C" Then
            LETRA = "3"
        End If
        If text_resp_par(i - 1, 1) = "D" Then
            LETRA = "4"
        End If
        If text_resp_par(i - 1, 1) = "E" Then
            LETRA = "5"
        End If

        With Adapter.SelectCommand
            .CommandText = "SELECT MIN(id_pregunta) AS MINI FROM
preguntas_parentesis " & _
"WHERE id_evaluacion = " & id_eval & " AND orden = " & LETRA
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataset, 1 & i)
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return Nothing
        End Try

        If MyDataset.Tables(1 & i).Rows.Count > 0 Then
            id_preg = MyDataset.Tables(1 & i).Rows(0).Item("MINI")
        Else
            id_preg = 0
        End If
    Else
        id_preg = 0
    End If

    With Adapter.InsertCommand
        .Connection = MyCon
        .CommandText = "INSERT INTO respuestas_parentesis (id_evaluacion,
texto_resp, id_pregunta, correcta) VALUES(" & id_eval.ToString & ", '" & text_resp_par(i - 1,
0) & "', " & id_preg & "', '" & text_resp_par(i - 1, 1) & "'"
    End With
    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()

```

```

Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return Nothing
End Try

Next
'-----RESPUESTAS EXTRA
If text_resp_par(num_q_par, 1) <> "VACIO" Then
    If text_resp_par(num_q_par, 1) = "A" Then
        LETRA = "1"
    End If
    If text_resp_par(num_q_par, 1) = "B" Then
        LETRA = "2"
    End If
    If text_resp_par(num_q_par, 1) = "C" Then
        LETRA = "3"
    End If
    If text_resp_par(num_q_par, 1) = "D" Then
        LETRA = "4"
    End If
    If text_resp_par(num_q_par, 1) = "E" Then
        LETRA = "5"
    End If
    If text_resp_par(num_q_par, 1) = "VACIO" Then
        LETRA = "0"
    End If

    With Adapter.SelectCommand
        .CommandText = "SELECT MIN(id_pregunta) AS MINI FROM preguntas_parentesis "
& _
        "WHERE id_evaluacion = " & id_eval & " AND orden = " & LETRA
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataset, "XXX")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    If MyDataset.Tables("XXX").Rows.Count > 0 Then
        id_preg = MyDataset.Tables("XXX").Rows(0).Item("MINI")
    Else
        id_preg = 0
    End If
Else
    id_preg = 0
End If
With Adapter.InsertCommand
    .Connection = MyCon
    .CommandText = "INSERT INTO respuestas_parentesis (id_evaluacion, texto_resp,
id_pregunta, correcta) VALUES(" & id_eval.ToString & ", '" & text_resp_par(num_q_par, 0) & "', "
& id_preg & ", '" & text_resp_par(num_q_par, 1) & "')"
End With
Try
    MyCon.Open()
    Adapter.InsertCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return Nothing
End Try

End If

```



```

'-- DATOS DE PARENTESIS -- PARTE 2
If num_q_par > 0 Then
    'Capturar los datos de las preguntas
    Dim text_preg_par(num_q_par - 1) As String
    Dim text_resp_par(num_q_par - 1, 1) As String

    If num_q_par >= 1 Then
        text_preg_par(0) = txt_par_q21.Text
        text_resp_par(0, 0) = txt_par_r21.Text
        text_resp_par(0, 1) = cmb_par_resp21.SelectedItem
    End If

    If num_q_par >= 2 Then
        text_preg_par(1) = txt_par_q22.Text
        text_resp_par(1, 0) = txt_par_r22.Text
        text_resp_par(1, 1) = cmb_par_resp22.SelectedItem
    End If

    If num_q_par >= 3 Then
        text_preg_par(2) = txt_par_q23.Text
        text_resp_par(2, 0) = txt_par_r23.Text
        text_resp_par(2, 1) = cmb_par_resp23.SelectedItem
    End If

    If num_q_par >= 4 Then
        text_preg_par(3) = txt_par_q24.Text
        text_resp_par(3, 0) = txt_par_r24.Text
        text_resp_par(3, 1) = cmb_par_resp24.SelectedItem
    End If

    If num_q_par >= 5 Then
        text_preg_par(4) = txt_par_q25.Text
        text_resp_par(4, 0) = txt_par_r25.Text
        text_resp_par(4, 1) = cmb_par_resp25.SelectedItem
    End If

    '-----PREGUNTAS
    For i = 1 To num_q_par
        With Adapter.InsertCommand
            .Connection = MyCon
            .CommandText = "INSERT INTO preguntas_parentesis (id_evaluacion,
texto_pregunta, orden) VALUES(" & id_eval.ToString & ", " & text_preg_par(i - 1) & "', " &
i.ToString & ")"
        End With
        Try
            MyCon.Open()
            Adapter.InsertCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return Nothing
        End Try
    Next
    '-----RESPUESTAS
    Dim id_preg As Integer = 0
    Dim LETRA As String
    For i = 1 To num_q_par
        If text_resp_par(i - 1, 1) <> "VACIO" Then
            If text_resp_par(i - 1, 1) = "A" Then
                LETRA = "1"
            End If
            If text_resp_par(i - 1, 1) = "B" Then
                LETRA = "2"
            End If
            If text_resp_par(i - 1, 1) = "C" Then
                LETRA = "3"
            End If
            If text_resp_par(i - 1, 1) = "D" Then
                LETRA = "4"
            End If
            If text_resp_par(i - 1, 1) = "E" Then

```

```

        LETRA = "5"
    End If

    With Adapter.SelectCommand
        .CommandText = "SELECT MAX(id_pregunta) AS MINI FROM
preguntas_parenthesis " & _
        "WHERE id_evaluacion = " & id_eval & " AND orden =" & LETRA
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataset, 2 & i)
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try
    If MyDataset.Tables(2 & i).Rows.Count > 0 Then
        id_preg = MyDataset.Tables(2 & i).Rows(0).Item("MINI")
    Else
        id_preg = 0
    End If
Else
    id_preg = 0
End If

    With Adapter.InsertCommand
        .Connection = MyCon
        .CommandText = "INSERT INTO respuestas_parenthesis (id_evaluacion,
texto_resp, id_pregunta, correcta) VALUES(" & id_eval.ToString & ", '" & text_resp_par(i - 1,
0) & "', " & id_preg & "', '" & text_resp_par(i - 1, 1) & "')"
    End With
    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    Next
End If

Me.Cursor = Windows.Forms.Cursors.Default

MsgBox("Datos insertados satisfactoriamente", MsgBoxStyle.Information, "Confirmacion de
datos")
Me.Close()
End Function
Private Sub frm_admin_eval_add0_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed
    Panel_open = False
End Sub
Private Function Validar_Opc()
    If num_q_opc >= 1 Then
        If Trim(txt_opc_p1.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 1", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_opc_p1.Focus()
            Return False
        End If
        If Trim(Cmb_opc_1.Items.Item(0)) = "" Then
            MsgBox("No se ha introducido datos en Literal A de pregunta 1",
MsgBoxStyle.Exclamation, "Validación de datos")
            Cmb_opc_1.SelectedIndex = 0
            Cmb_opc_1.Focus()
        End If
    End If
End Function

```

```

        Return False
    End If
    If Trim(Cmb_opc_1.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 1",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_1.SelectedIndex = 1
        Cmb_opc_1.Focus()
        Return False
    End If
    If Trim(Cmb_opc_1.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 1",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_1.SelectedIndex = 2
        Cmb_opc_1.Focus()
        Return False
    End If

End If
If num_q_opc >= 2 Then
    If Trim(txt_opc_p2.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta 2", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_opc_p2.Focus()
        Return False
    End If
    If Trim(Cmb_opc_2.Items.Item(0)) = "" Then
        MsgBox("No se ha introducido datos en Literal A de pregunta 2",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_2.SelectedIndex = 0
        Cmb_opc_2.Focus()
        Return False
    End If
    If Trim(Cmb_opc_2.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 2",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_2.SelectedIndex = 1
        Cmb_opc_2.Focus()
        Return False
    End If
    If Trim(Cmb_opc_2.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 2",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_2.SelectedIndex = 2
        Cmb_opc_2.Focus()
        Return False
    End If
End If
If num_q_opc >= 3 Then
    If Trim(txt_opc_p3.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta 3", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_opc_p3.Focus()
        Return False
    End If

    If Trim(Cmb_opc_3.Items.Item(0)) = "" Then
        MsgBox("No se ha introducido datos en Literal A de pregunta 3",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_3.SelectedIndex = 0
        Cmb_opc_3.Focus()
        Return False
    End If
    If Trim(Cmb_opc_3.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 3",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_3.SelectedIndex = 1
        Cmb_opc_3.Focus()
        Return False
    End If
    If Trim(Cmb_opc_3.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 3",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_3.SelectedIndex = 2

```

```

        Cmb_opc_3.Focus()
        Return False
    End If

End If

If num_q_opc >= 4 Then
    If Trim(txt_opc_p4.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta 4", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_opc_p4.Focus()
        Return False
    End If

    If Trim(Cmb_opc_4.Items.Item(0)) = "" Then
        MsgBox("No se ha introducido datos en Literal A de pregunta 4",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_4.SelectedIndex = 0
        Cmb_opc_4.Focus()
        Return False
    End If
    If Trim(Cmb_opc_4.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 4",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_4.SelectedIndex = 1
        Cmb_opc_4.Focus()
        Return False
    End If
    If Trim(Cmb_opc_4.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 4",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_4.SelectedIndex = 2
        Cmb_opc_4.Focus()
        Return False
    End If
End If
If num_q_opc >= 5 Then
    If Trim(txt_opc_p5.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta 5", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_opc_p5.Focus()
        Return False
    End If

    If Trim(Cmb_opc_5.Items.Item(0)) = "" Then
        MsgBox("No se ha introducido datos en Literal A de pregunta 5",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_5.SelectedIndex = 0
        Cmb_opc_5.Focus()
        Return False
    End If
    If Trim(Cmb_opc_5.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 5",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_5.SelectedIndex = 1
        Cmb_opc_5.Focus()
        Return False
    End If
    If Trim(Cmb_opc_5.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 5",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_5.SelectedIndex = 2
        Cmb_opc_5.Focus()
        Return False
    End If
End If

Return True
End Function
Private Function Validar_Opc2()

If num_q_opc >= 1 Then
    If Trim(txt_opc_p21.Text) = "" Then

```

```

        MsgBox("No se ha introducido datos en pregunta 1", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_opc_p21.Focus()
        Return False
    End If
    If Trim(Cmb_opc_21.Items.Item(0)) = "" Then
        MsgBox("No se ha introducido datos en Literal A de pregunta 1",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_21.SelectedIndex = 0
        Cmb_opc_21.Focus()
        Return False
    End If
    If Trim(Cmb_opc_21.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 1",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_21.SelectedIndex = 1
        Cmb_opc_21.Focus()
        Return False
    End If
    If Trim(Cmb_opc_21.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 1",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_21.SelectedIndex = 2
        Cmb_opc_21.Focus()
        Return False
    End If

    End If
    If num_q_opc >= 2 Then
        If Trim(txt_opc_p22.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 2", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_opc_p22.Focus()
            Return False
        End If
        If Trim(Cmb_opc_22.Items.Item(0)) = "" Then
            MsgBox("No se ha introducido datos en Literal A de pregunta 2",
MsgBoxStyle.Exclamation, "Validación de datos")
            Cmb_opc_22.SelectedIndex = 0
            Cmb_opc_22.Focus()
            Return False
        End If
        If Trim(Cmb_opc_22.Items.Item(1)) = "" Then
            MsgBox("No se ha introducido datos en Literal B de pregunta 2",
MsgBoxStyle.Exclamation, "Validación de datos")
            Cmb_opc_22.SelectedIndex = 1
            Cmb_opc_22.Focus()
            Return False
        End If
        If Trim(Cmb_opc_22.Items.Item(2)) = "" Then
            MsgBox("No se ha introducido datos en Literal C de pregunta 2",
MsgBoxStyle.Exclamation, "Validación de datos")
            Cmb_opc_22.SelectedIndex = 2
            Cmb_opc_22.Focus()
            Return False
        End If
    End If
    If num_q_opc >= 3 Then
        If Trim(txt_opc_p23.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 3", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_opc_p23.Focus()
            Return False
        End If

        If Trim(Cmb_opc_23.Items.Item(0)) = "" Then
            MsgBox("No se ha introducido datos en Literal A de pregunta 3",
MsgBoxStyle.Exclamation, "Validación de datos")
            Cmb_opc_23.SelectedIndex = 0
            Cmb_opc_23.Focus()
            Return False
        End If
        If Trim(Cmb_opc_23.Items.Item(1)) = "" Then

```

```

        MsgBox("No se ha introducido datos en Literal B de pregunta 3",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_23.SelectedIndex = 1
        Cmb_opc_23.Focus()
        Return False
    End If
    If Trim(Cmb_opc_23.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 3",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_23.SelectedIndex = 2
        Cmb_opc_23.Focus()
        Return False
    End If

End If
If num_q_opc >= 4 Then
    If Trim(txt_opc_p24.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta 4", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_opc_p24.Focus()
        Return False
    End If

    If Trim(Cmb_opc_24.Items.Item(0)) = "" Then
        MsgBox("No se ha introducido datos en Literal A de pregunta 4",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_24.SelectedIndex = 0
        Cmb_opc_24.Focus()
        Return False
    End If
    If Trim(Cmb_opc_24.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 4",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_24.SelectedIndex = 1
        Cmb_opc_24.Focus()
        Return False
    End If
    If Trim(Cmb_opc_24.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 4",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_24.SelectedIndex = 2
        Cmb_opc_24.Focus()
        Return False
    End If
End If
If num_q_opc >= 5 Then
    If Trim(txt_opc_p25.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta 5", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_opc_p25.Focus()
        Return False
    End If

    If Trim(Cmb_opc_25.Items.Item(0)) = "" Then
        MsgBox("No se ha introducido datos en Literal A de pregunta 5",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_25.SelectedIndex = 0
        Cmb_opc_25.Focus()
        Return False
    End If
    If Trim(Cmb_opc_25.Items.Item(1)) = "" Then
        MsgBox("No se ha introducido datos en Literal B de pregunta 5",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_25.SelectedIndex = 1
        Cmb_opc_25.Focus()
        Return False
    End If
    If Trim(Cmb_opc_25.Items.Item(2)) = "" Then
        MsgBox("No se ha introducido datos en Literal C de pregunta 5",
MsgBoxStyle.Exclamation, "Validación de datos")
        Cmb_opc_25.SelectedIndex = 2
        Cmb_opc_25.Focus()
        Return False
    End If

```

```

        End If
    End If

    Return True
End Function
Private Function Validar_FV()
    If num_q_fv >= 1 Then
        If Trim(txt_fv_p1.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 1", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p1.Focus()
            Return False
        End If
    End If
    If num_q_fv >= 2 Then
        If Trim(txt_fv_p2.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 2", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p2.Focus()
            Return False
        End If
    End If
    If num_q_fv >= 3 Then
        If Trim(txt_fv_p3.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 3", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p3.Focus()
            Return False
        End If
    End If
    If num_q_fv >= 4 Then
        If Trim(txt_fv_p4.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 4", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p4.Focus()
            Return False
        End If
    End If
    If num_q_fv >= 5 Then
        If Trim(txt_fv_p5.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 5", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p5.Focus()
            Return False
        End If
    End If
    Return True
End Function
Private Function Validar_FV2()
    If num_q_fv >= 1 Then
        If Trim(txt_fv_p21.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 1", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p21.Focus()
            Return False
        End If
    End If
    If num_q_fv >= 2 Then
        If Trim(txt_fv_p22.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 2", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p22.Focus()
            Return False
        End If
    End If
    If num_q_fv >= 3 Then
        If Trim(txt_fv_p23.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 3", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p23.Focus()
            Return False
        End If
    End If
End Function

```

```

    If num_q_fv >= 4 Then
        If Trim(txt_fv_p24.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 4", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p24.Focus()
            Return False
        End If
    End If
    If num_q_fv >= 5 Then
        If Trim(txt_fv_p25.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta 5", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_fv_p25.Focus()
            Return False
        End If
    End If
    Return True
End Function
Private Function Validar_Par()
    If num_q_par >= 1 Then
        If Trim(txt_par_q1.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta A", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_q1.Focus()
            Return False
        End If
        If Trim(txt_par_r1.Text) = "" Then
            MsgBox("No se ha introducido datos en parentesis 1", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_r1.Focus()
            Return False
        End If
    End If
    If num_q_par >= 2 Then
        If Trim(txt_par_q2.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta B", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_q2.Focus()
            Return False
        End If
        If Trim(txt_par_r2.Text) = "" Then
            MsgBox("No se ha introducido datos en parentesis 2", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_r2.Focus()
            Return False
        End If
    End If
    If num_q_par >= 3 Then
        If Trim(txt_par_q3.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta C", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_q3.Focus()
            Return False
        End If
        If Trim(txt_par_r3.Text) = "" Then
            MsgBox("No se ha introducido datos en parentesis 3", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_r3.Focus()
            Return False
        End If
    End If
    If num_q_par >= 4 Then
        If Trim(txt_par_q4.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta D", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_q4.Focus()
            Return False
        End If
        If Trim(txt_par_r4.Text) = "" Then
            MsgBox("No se ha introducido datos en parentesis 4", MsgBoxStyle.Exclamation,
"Validación de datos")
            txt_par_r4.Focus()
            Return False
        End If
    End If
End Function

```



```

    End If
End If
If num_q_par >= 5 Then
    If Trim(txt_par_q5.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta D", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_q5.Focus()
        Return False
    End If
    If Trim(txt_par_q5.Text) = "" Then
        MsgBox("No se ha introducido datos en parentesis 5", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_r5.Focus()
        Return False
    End If
End If
If Trim(txt_par_rx.Text) = "" Then
    MsgBox("No se ha introducido datos en Parentesis Extra", MsgBoxStyle.Exclamation,
"Validación de datos")
    txt_par_rx.Focus()
    Return False
End If
'-- PARA EVITAR REPETIDOS

Dim texto As String
If num_q_par >= 1 Then
    texto = cmb_par_resp1.Text
    If texto = cmb_par_respX.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
End If
If num_q_par >= 2 Then
    texto = cmb_par_resp2.Text
    If texto = cmb_par_resp1.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_respX.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
End If
If num_q_par >= 3 Then
    texto = cmb_par_resp3.Text
    If texto = cmb_par_resp1.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_resp2.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_respX.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
End If
If num_q_par >= 4 Then
    texto = cmb_par_resp4.Text
    If texto = cmb_par_resp1.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_resp2.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _

```

```

        vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
    Return False
End If
If texto = cmb_par_resp3.Text Then
    MsgBox("No pueden haber dos respuestas iguales en la " & _
        vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
    Return False
End If
If texto = cmb_par_respX.Text Then
    MsgBox("No pueden haber dos respuestas iguales en la " & _
        vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
    Return False
End If
End If
If num_q_par >= 5 Then
    texto = cmb_par_resp5.Text
    If texto = cmb_par_resp1.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_resp2.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_resp3.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_resp4.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_respX.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
End If

Return True
End Function
Private Function Validar_Par2()
    If num_q_par >= 1 Then
        If Trim(txt_par_q21.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta A", MsgBoxStyle.Exclamation,
                "Validación de datos")
            txt_par_q21.Focus()
            Return False
        End If
        If Trim(txt_par_r21.Text) = "" Then
            MsgBox("No se ha introducido datos en parentesis 1", MsgBoxStyle.Exclamation,
                "Validación de datos")
            txt_par_r21.Focus()
            Return False
        End If
    End If
    If num_q_par >= 2 Then
        If Trim(txt_par_q22.Text) = "" Then
            MsgBox("No se ha introducido datos en pregunta B", MsgBoxStyle.Exclamation,
                "Validación de datos")
            txt_par_q22.Focus()
            Return False
        End If
        If Trim(txt_par_r22.Text) = "" Then
            MsgBox("No se ha introducido datos en parentesis 2", MsgBoxStyle.Exclamation,
                "Validación de datos")
            txt_par_r22.Focus()
            Return False
        End If
    End If

```

```

End If
If num_q_par >= 3 Then
    If Trim(txt_par_q23.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta C", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_q23.Focus()
        Return False
    End If
    If Trim(txt_par_r23.Text) = "" Then
        MsgBox("No se ha introducido datos en parentesis 3", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_r23.Focus()
        Return False
    End If
End If
If num_q_par >= 4 Then
    If Trim(txt_par_q24.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta D", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_q24.Focus()
        Return False
    End If
    If Trim(txt_par_r24.Text) = "" Then
        MsgBox("No se ha introducido datos en parentesis 4", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_r24.Focus()
        Return False
    End If
End If
If num_q_par >= 5 Then
    If Trim(txt_par_q25.Text) = "" Then
        MsgBox("No se ha introducido datos en pregunta D", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_q25.Focus()
        Return False
    End If
    If Trim(txt_par_q25.Text) = "" Then
        MsgBox("No se ha introducido datos en parentesis 5", MsgBoxStyle.Exclamation,
"Validación de datos")
        txt_par_r25.Focus()
        Return False
    End If
End If
'-----
'--- NO PERMITIR RESP REPETIDAS
'-----

Dim texto As String
If num_q_par >= 2 Then
    texto = cmb_par_resp22.Text
    If texto = cmb_par_resp21.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
End If
If num_q_par >= 3 Then
    texto = cmb_par_resp23.Text
    If texto = cmb_par_resp21.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
    If texto = cmb_par_resp22.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "Educiensys")
        Return False
    End If
End If
If num_q_par >= 4 Then
    texto = cmb_par_resp24.Text
    If texto = cmb_par_resp21.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _

```

```

        vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduciensSys")
    Return False
End If
If texto = cmb_par_resp22.Text Then
    MsgBox("No pueden haber dos respuestas iguales en la " & _
        vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduciensSys")
    Return False
End If
If texto = cmb_par_resp23.Text Then
    MsgBox("No pueden haber dos respuestas iguales en la " & _
        vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduciensSys")
    Return False
End If
End If
If num_q_par >= 5 Then
    texto = cmb_par_resp25.Text
    If texto = cmb_par_resp21.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduciensSys")
        Return False
    End If
    If texto = cmb_par_resp22.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduciensSys")
        Return False
    End If
    If texto = cmb_par_resp23.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduciensSys")
        Return False
    End If
    If texto = cmb_par_resp24.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
            vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduciensSys")
        Return False
    End If
End If

Return True
End Function
Private Sub B_Siguiente_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Siguiente.Click
    num_q_opc = cmb_opc_add.SelectedIndex
    num_q_fv = cmb_vf_add.SelectedIndex
    num_q_par = cmb_par_add.SelectedIndex

    If chk_tema_add.SelectedIndex < 0 Then
        MsgBox("No se ha seleccionado tema", MsgBoxStyle.Exclamation, "Validación de
datos")
        Return
    End If

    Dim pos_x As Integer

    pos_x = InStrRev(chk_tema_add.SelectedItem, " ")
    id_tema_g = Mid(chk_tema_add.SelectedItem, pos_x + 1, chk_tema_add.SelectedItem.Length)

    If id_tema_g <= 0 Then
        MsgBox("No se ha seleccionado tema", MsgBoxStyle.Exclamation, "Validación de
datos")
        Return
    End If

    If num_q_opc + num_q_fv + num_q_par = 0 Then
        MsgBox("Ningún tipo de pregunta seleccionada", MsgBoxStyle.Exclamation, "Validación
de datos")
        Return
    End If
    '-----BUSCAR SI TIENE EVALUACION-----
    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim MyDataSet As New DataSet

```

```

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM evaluaciones WHERE id_tema = " & id_tema_g
    .Connection = MyCon
End With
Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "cant_temas")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

If MyDataSet.Tables("cant_temas").Rows.Count > 0 Then
    Me.Cursor = Windows.Forms.Cursors.Default
    Dim resp
    'resp = MsgBox("Este tema ya tiene una evaluación asignada desea borrar la
evaluación existente y crear una nueva?", MsgBoxStyle.YesNo, "EduCienCis")
    resp = MessageBox.Show("Este tema ya tiene una evaluación asignada desea borrar la
evaluación existente y crear una nueva?", "EduCienCis", MessageBoxButtons.YesNo,
MessageBoxIcon.Question)
    If resp = 6 Then
        Dim id_eval As Integer
        id_eval = MyDataSet.Tables("cant_temas").Rows(0).Item("id_evaluacion")

        '-----Preguntas FV
        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM preguntas_fv WHERE id_evaluacion=" & id_eval
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        '-----Preguntas Parentesis
        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM preguntas_parentesis WHERE id_evaluacion=" &
id_eval
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        '-----Preguntas Opcion Multiple
        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM preguntas_sm WHERE id_evaluacion=" & id_eval
            .Connection = MyCon
        End With
        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _

```

```

        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

'----- Respuestas Parentesis
With Adapter.DeleteCommand
    .CommandText = "DELETE FROM respuestas_parentesis WHERE id_evaluacion=" &
id_eval
    .Connection = MyCon
End With
Try
    MyCon.Open()
    Adapter.DeleteCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

'----- EVALUACIONES-----
With Adapter.DeleteCommand
    .CommandText = "DELETE FROM evaluaciones WHERE id_evaluacion=" & id_eval
    .Connection = MyCon
End With
Try
    MyCon.Open()
    Adapter.DeleteCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

Else
    Return
End If

End If

Me.Cursor = Windows.Forms.Cursors.Default

'--- BUSCAR SI TIENE TEMAS -----
'--- Decidir hacia donde se va
'--- Preparar los paneles
If num_q_opc > 0 Then
    Mostrar_Panel_opc()
    Mostrar_Panel_opc2()
End If
If num_q_fv > 0 Then
    Mostrar_Panel_vf()
    Mostrar_Panel_vf2()
End If
If num_q_par > 0 Then
    Mostrar_Panel_par()
    Mostrar_Panel_par2()
End If

If num_q_opc > 0 Then
    Hide_all_panels()
    panel_opc.Visible = True
End If
If num_q_opc = 0 And num_q_fv > 0 Then
    Hide_all_panels()
    panel_fv.Visible = True
End If

If num_q_opc = 0 And num_q_fv = 0 And num_q_par > 0 Then
    Hide_all_panels()

```

```

        panel_par.Visible = True
    End If

    End Sub
    Private Sub B_Atras01_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Atras01.Click
    '--- Decidir hacia donde se va
    Hide_all_panels()
    panel_add.Visible = True
    End Sub
    Private Sub B_Siguiente01_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Siguiente01.Click
    If Validar_Opc() Then

        Hide_all_panels()
        panel_opc2.Visible = True
        'Mostrar_Panel_opc2()
    End If
    End Sub
    Private Sub B_Siguiente02_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Siguiente02.Click
    If Validar_FV() Then
        Hide_all_panels()
        panel_fv2.Visible = True
        'Mostrar_Panel_vf2()
    End If
    End Sub
    Private Sub B_Atras02_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Atras02.Click
    If num_q_opc > 0 Then
        Hide_all_panels()
        panel_opc2.Visible = True
        'Mostrar_Panel_opc2()
    End If

    If num_q_opc = 0 Then
        Hide_all_panels()
        panel_add.Visible = True
    End If

    End Sub
    Private Sub B_Atras03_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Atras03.Click
    If num_q_fv > 0 Then
        Hide_all_panels()
        panel_fv2.Visible = True
        'Mostrar_Panel_vf2()
    End If

    If num_q_fv = 0 And num_q_opc > 0 Then
        Hide_all_panels()
        panel_opc2.Visible = True
        'Mostrar_Panel_opc2()
    End If
    If num_q_fv = 0 And num_q_opc = 0 Then
        Hide_all_panels()
        panel_add.Visible = True
    End If

    End Sub
    Private Sub PB_sig_opc2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_sig_opc2.Click
    If Validar_Opc2() Then
        If num_q_fv > 0 Then
            Hide_all_panels()
            panel_fv.Visible = True
            'Mostrar_Panel_vf()
        End If

        If num_q_fv = 0 And num_q_par > 0 Then
            Hide_all_panels()
            panel_par.Visible = True
            'Mostrar_Panel_par()
        End If
    End If

```

```

        End If

        If num_q_fv = 0 And num_q_par = 0 Then
            'Guardar
            Guardar_datos()
        End If
    End If
End Sub
Private Sub PB_atras_opc2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_atras_opc2.Click
    Hide_all_panels()
    panel_opc.Visible = True
    'Mostrar_Panel_opc()
End Sub
Private Sub PB_sig_fv2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_sig_fv2.Click
    '---VALIDAR
    If Validar_FV2() Then

        If num_q_par > 0 Then
            Hide_all_panels()
            panel_par.Visible = True
            'Mostrar_Panel_par()
        End If

        If num_q_par = 0 Then
            Guardar_datos()
        End If
    End If
End Sub
Private Sub PB_atras_fv2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_atras_fv2.Click

    Hide_all_panels()
    panel_fv.Visible = True
    'Mostrar_Panel_vf()
End Sub
Private Sub PB_atras_par2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_atras_par2.Click

    Hide_all_panels()
    panel_par.Visible = True
    'Mostrar_Panel_par()
End Sub
Private Sub PictureBox1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox1.Click
    If Validar_Par() Then
        Hide_all_panels()
        panel_par2.Visible = True
        'Mostrar_Panel_par2()
    End If
End Sub
Private Sub Cmb_opc_21_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_21.SelectedIndexChanged
    i_q21 = Cmb_opc_21.SelectedIndex
End Sub
Private Sub Cmb_opc_21_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_21.KeyUp
    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_21.Text
        Cmb_opc_21.Items.RemoveAt(i_q21)
        Cmb_opc_21.Items.Insert(i_q21, text)
    End If
End Sub
Private Sub Cmb_opc_22_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_22.SelectedIndexChanged
    i_q22 = Cmb_opc_22.SelectedIndex
End Sub
Private Sub Cmb_opc_22_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_22.KeyUp
    If e.KeyCode = 13 Then

```



```

        Dim text As String
        text = Cmb_opc_22.Text
        Cmb_opc_22.Items.RemoveAt(i_q22)
        Cmb_opc_22.Items.Insert(i_q22, text)
    End If
End Sub
Private Sub Cmb_opc_23_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_23.SelectedIndexChanged
    i_q23 = Cmb_opc_23.SelectedIndex
End Sub
Private Sub Cmb_opc_23_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_23.KeyUp
    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_23.Text
        Cmb_opc_23.Items.RemoveAt(i_q23)
        Cmb_opc_23.Items.Insert(i_q23, text)
    End If
End Sub
Private Sub Cmb_opc_24_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_24.SelectedIndexChanged
    i_q24 = Cmb_opc_24.SelectedIndex
End Sub
Private Sub Cmb_opc_24_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_24.KeyUp
    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_24.Text
        Cmb_opc_24.Items.RemoveAt(i_q24)
        Cmb_opc_24.Items.Insert(i_q24, text)
    End If
End Sub
Private Sub Cmb_opc_25_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Cmb_opc_25.SelectedIndexChanged
    i_q25 = Cmb_opc_25.SelectedIndex
End Sub
Private Sub Cmb_opc_25_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Cmb_opc_25.KeyUp
    If e.KeyCode = 13 Then
        Dim text As String
        text = Cmb_opc_25.Text
        Cmb_opc_25.Items.RemoveAt(i_q25)
        Cmb_opc_25.Items.Insert(i_q25, text)
    End If
End Sub
Private Sub BFinalizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles BFinalizar.Click
    If Validar_Par2() Then
        Guardar_datos()
    End If
End Sub
End Class

```

10. ELIMINAR EVALUACIONES

Nombre del Objeto: frm_admin_eval_del

Código:

```

Public Class frm_admin_eval_del
    Inherits System.Windows.Forms.Form
    Dim Ini_cmb_uni As Boolean

```

Windows Form Designer generated code

```

Private Sub frm_admin_eval_del_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
    Dim z As System.Drawing.Point

```

```

z.X = Pos_X_admin_panel
z.Y = Pos_Y_admin_panel - 20

Me.Location = z
'---CARGAR LOS DATOS
Ini_cmb_uni = True
Me.Cursor = Windows.Forms.Cursors.WaitCursor

chk_eval_del.Items.Clear()

Dim MyDataSet As New DataSet

With Adapter.SelectCommand
    .CommandText = "SELECT e.id_evaluacion, e.id_tema FROM evaluaciones e" & _
    ", temas t, unidad u WHERE e.id_tema = t.id_tema AND t.id_unidad = " & _
    "u.id_unidad AND u.id_usuario = " & ID_Us_GLOBAL
    .Connection = MyCon
End With
Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "eval")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" & _
    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

Dim indice As Integer
Dim id_tema As Integer

Dim i As Integer
For i = 0 To MyDataSet.Tables("eval").Rows.Count - 1
    indice = MyDataSet.Tables("eval").Rows(i).Item("id_evaluacion")
    id_tema = MyDataSet.Tables("eval").Rows(i).Item("id_tema")
    chk_eval_del.Items.Add(Devuelve_datos(id_tema) & SPACIOS & indice)
Next

Me.Cursor = Windows.Forms.Cursors.Default
Me.TopMost = True

End Sub
Private Sub frm_admin_eval_del_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed
    Panel_open = False
End Sub
Private Function Devuelve_datos(ByVal id_tema As Integer)

    Dim MyDataSet As New DataSet
    With Adapter2.SelectCommand
        .CommandText = "SELECT nombre_tema FROM temas WHERE id_tema=" & id_tema
        .Connection = MyCon
    End With

    Adapter2.Fill(MyDataSet)
    Dim cad As String

    If MyDataSet.Tables(0).Rows.Count = 0 Then
        cad = "[Desconocido]"
    Else
        cad = "[" & Trim(MyDataSet.Tables(0).Rows(0).Item("nombre_tema")) & "]"
    End If

    Return cad

End Function
Private Sub chk_eval_del_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_eval_del.SelectedIndexChanged
    If chk_eval_del.Items.Count > 0 Then
        Dim index As Integer
        index = chk_eval_del.SelectedIndex
    
```

```

Dim i As Integer

For i = 0 To chk_eval_del.Items.Count - 1
    If i = index Then
        chk_eval_del.SetItemCheckState(i, CheckState.Checked)
    Else
        chk_eval_del.SetItemCheckState(i, CheckState.Unchecked)
    End If
Next
End If
End Sub
Private Sub cmd_del_eval_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles cmd_del_eval.Click
    Dim resp As String
    'resp = MsgBox("¿Realmente desea Elimar este registro?", MsgBoxStyle.Question,
"Elimación de Registros")
    resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
    If resp = 6 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        Dim pos As Integer
        Dim id_eval As String

        pos = InStrRev(chk_eval_del.SelectedItem, " ")
        id_eval = Mid(chk_eval_del.SelectedItem, pos + 1, chk_eval_del.SelectedItem.Length)

        '-----Preguntas FV
        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM preguntas_fv WHERE id_evaluacion=" & id_eval
            .Connection = MyCon
        End With
        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        '-----Preguntas Parentesis
        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM preguntas_parentesis WHERE id_evaluacion=" &
id_eval
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        '-----Preguntas Opcion Multiple
        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM preguntas_sm WHERE id_evaluacion=" & id_eval
            .Connection = MyCon
        End With
        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default

```

```

        Return
    End Try

    '-----Respuestas Parentesis
    With Adapter.DeleteCommand
        .CommandText = "DELETE FROM respuestas_parentesis WHERE id_eval=" & id_eval
        .Connection = MyCon
    End With
    Try
        MyCon.Open()
        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    '----- EVALUACIONES-----
    With Adapter.DeleteCommand
        .CommandText = "DELETE FROM evaluaciones WHERE id_evaluacion=" & id_eval
        .Connection = MyCon
    End With
    Try
        MyCon.Open()
        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    '-----

    chk_eval_del.Items.Remove(chk_eval_del.SelectedItem)

    If chk_eval_del.Items.Count > 0 Then
        cmd_del_eval.Enabled = False
    End If

    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("Registros Eliminados exitosamente", MsgBoxStyle.Information, "Elimación de
Registros")

    End If
End Sub
Private Sub B_Cancelar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Cancelar.Click
    Me.Close()
End Sub
Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click

    'If chk_eval_del.Items.Count > 0 Then
    If chk_eval_del.SelectedItems.Count > 0 Then

        Dim resp

        'resp = MsgBox("¿Realmente desea Elimar este registro?", MsgBoxStyle.YesNo,
"Elimación de Registros")
        resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
        If resp = 6 Then

            Me.Cursor = Windows.Forms.Cursors.WaitCursor
            Dim pos As Integer
            Dim id_eval As String

            pos = InStrRev(chk_eval_del.SelectedItem, " ")

```

```

        id_eval = Mid(chk_eval_del.SelectedItem, pos + 1,
chk_eval_del.SelectedItem.Length)
'-- Comprobar si existe notas de esa eval
Dim MyDataSet As New DataSet
With Adapter.SelectCommand
.CommandText = "SELECT DISTINCT N.nota FROM notas N, evaluaciones E WHERE
N.id_evaluacion=" & id_eval
.Connection = MyCon
End With

Try
MyCon.Open()
Adapter.Fill(MyDataSet, "notas_1")
MyCon.Close()
Catch ex As Exception
MyCon.Close()
MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try
If MyDataSet.Tables("notas_1").Rows.Count > 0 Then
Me.Cursor = Windows.Forms.Cursors.Default
MsgBox("No se puede eliminar esta evaluacion debido que " & _
vbCrLf & "hay alumnos con notas en esta evaluacion",
MsgBoxStyle.Exclamation, "EduCienSis")
Return
End If

'-----Preguntas FV
With Adapter.DeleteCommand
.CommandText = "DELETE FROM preguntas_fv WHERE id_evaluacion=" & id_eval
.Connection = MyCon
End With

Try
MyCon.Open()
Adapter.DeleteCommand.ExecuteNonQuery()
MyCon.Close()
Catch ex As Exception
MyCon.Close()
MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

'-----Preguntas Parentesis
With Adapter.DeleteCommand
.CommandText = "DELETE FROM preguntas_parentesis WHERE id_evaluacion=" &
id_eval
.Connection = MyCon
End With

Try
MyCon.Open()
Adapter.DeleteCommand.ExecuteNonQuery()
MyCon.Close()
Catch ex As Exception
MyCon.Close()
MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try

'-----Preguntas Opcion Multiple
With Adapter.DeleteCommand
.CommandText = "DELETE FROM preguntas_sm WHERE id_evaluacion=" & id_eval
.Connection = MyCon
End With
Try
MyCon.Open()

```

```

        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

'-----Respuestas Parentesis
With Adapter.DeleteCommand
    .CommandText = "DELETE FROM respuestas_parentesis WHERE id_evaluacion=" &
id_eval
        .Connection = MyCon
End With
Try
    MyCon.Open()
    Adapter.DeleteCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

'----- EVALUACIONES-----
With Adapter.DeleteCommand
    .CommandText = "DELETE FROM evaluaciones WHERE id_evaluacion=" & id_eval
    .Connection = MyCon
End With
Try
    MyCon.Open()
    Adapter.DeleteCommand.ExecuteNonQuery()
    MyCon.Close()
Catch ex As Exception
    MyCon.Close()
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

'-----

chk_eval_del.Items.Remove(chk_eval_del.SelectedItem)

If chk_eval_del.Items.Count > 0 Then
    cmd_del_eval.Enabled = False
End If

Me.Cursor = Windows.Forms.Cursors.Default
MsgBox("Registros Eliminados exitosamente", MsgBoxStyle.Information, "Elimación
de Registros")

End If
Else
    MsgBox("No se ha seleccionado ningún registro", MsgBoxStyle.Exclamation, "Elimación
de Registros")
End If
End Sub
Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox2.Click

    End Sub
End Class

```

11. VER / MODIFICAR EVALUACIONES

Nombre del Objeto: frm_admin_eval_view

Código:

```
Public Class frm_admin_eval_view
    Inherits System.Windows.Forms.Form
    Dim Pos_Paneles As System.Drawing.Point
    Dim Tipo_Eval As Integer
    Dim NP_Opc, NP_FV, NP_Par As Integer
    Dim Inicio_Combo As Boolean
    Dim Inicio_Combo2 As Boolean
```

Windows Form Designer generated code

```
Private Sub frm_admin_eval_view_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    '--PERMISOS
    If PERM_UPD = False Then
        PB_Mod.Visible = False
    End If

    '--Darle Forma al form

    Dim tama As System.Drawing.Size
    tama.Width = 536
    tama.Height = 550
    Me.Size = tama

    '--Darle forma a los paneles
    Pos_Paneles.X = 8
    Pos_Paneles.Y = 88

    tama.Width = 512
    tama.Height = 432

    pan_fv.Location = Pos_Paneles
    pan_fv.Size = tama
    pan_opc_1.Location = Pos_Paneles
    pan_opc_1.Size = tama
    pan_opc_2.Location = Pos_Paneles
    pan_opc_2.Size = tama
    pan_par.Location = Pos_Paneles
    pan_par.Size = tama

    pan_fv2.Location = Pos_Paneles
    pan_fv2.Size = tama
    pan_opc_12.Location = Pos_Paneles
    pan_opc_12.Size = tama
    pan_opc_22.Location = Pos_Paneles
    pan_opc_22.Size = tama
    pan_par2.Location = Pos_Paneles
    pan_par2.Size = tama
    '-----
    Oculta_Paneles()
    '---Cargar Evaluaciones-----

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    cmb_eval.Items.Clear()
    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT e.id_evaluacion, e.id_tema, e.tipo_evaluacion," & _
            " e.num_preguntas FROM evaluaciones e" & _
            ", temas t, unidad u WHERE e.id_tema = t.id_tema AND t.id_unidad = " & _
            "u.id_unidad AND u.id_usuario =" & ID_Us_GLOBAL
```

```

        .Connection = MyCon
    End With
    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "eval")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    If MyDataSet.Tables("eval").Rows.Count = 0 Then
        Me.Cursor = Windows.Forms.Cursors.Default
        MsgBox("No se ha creado ninguna evaluación", MsgBoxStyle.Exclamation, "EduCienSys")
        Panel_open = False
        Me.Close()
    End If

    Dim indice As Integer
    Dim id_tema, tipo_eval, num_preg As Integer

    Inicio_Combo = True
    Dim i As Integer
    For i = 0 To MyDataSet.Tables("eval").Rows.Count - 1
        indice = MyDataSet.Tables("eval").Rows(i).Item("id_evaluacion")
        id_tema = MyDataSet.Tables("eval").Rows(i).Item("id_tema")
        tipo_eval = MyDataSet.Tables("eval").Rows(i).Item("tipo_evaluacion")
        num_preg = MyDataSet.Tables("eval").Rows(i).Item("num_preguntas")
        cmb_eval.Items.Add(Devuelve_datos(id_tema) & SPACIOS & indice)
        'chk_eval_del.Items.Add(indice & "-")
    Next

    Inicio_Combo = False
    cmb_eval.SelectedIndex = 0

    '--- Inicializar Valores

    tipo_eval = 0
    '         NP_Opc = 0
    '         NP_FV = 0
    '         NP_Par = 0
    '-----

    Me.Cursor = Windows.Forms.Cursors.Default

End Sub
Private Function Oculta_Paneles()
    pan_opc_1.Visible = False
    pan_opc_2.Visible = False
    pan_par.Visible = False
    pan_fv.Visible = False

    pan_opc_12.Visible = False
    pan_opc_22.Visible = False
    pan_par2.Visible = False
    pan_fv2.Visible = False

End Function
Private Function Devuelve_datos(ByVal id_tema As Integer)

    Dim MyDataSet As New DataSet
    With Adapter2.SelectCommand
        .CommandText = "SELECT * FROM temas WHERE id_tema=" & id_tema
        .Connection = MyCon
    End With

    Adapter2.Fill(MyDataSet)
    Dim cad As String

```



```

If MyDataSet.Tables(0).Rows.Count = 0 Then
    cad = "[Tema Desconocido]"
Else
    cad = Trim(MyDataSet.Tables(0).Rows(0).Item("nombre_tema"))
End If

Return cad

End Function
Private Sub frm_admin_eval_view_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Panel_open = False
End Sub
Private Function Carga_Datos_Eval(ByVal ID_EVAL As Integer)

    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    Dim MyDataSet As New DataSet
    'Dim Tipo_Eval As Integer
    '---- TIPO DE EVALUACION ----

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM evaluaciones WHERE id_evaluacion=" & ID_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "eval0")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    Tipo_Eval = MyDataSet.Tables("eval0").Rows(0).Item("tipo_evaluacion")
    NP_Opc = MyDataSet.Tables("eval0").Rows(0).Item("num_opc")
    NP_FV = MyDataSet.Tables("eval0").Rows(0).Item("num_fv")
    NP_Par = MyDataSet.Tables("eval0").Rows(0).Item("num_par")
    '----OPCION MULTIPLE-----
    If Tipo_Eval = 1 Or Tipo_Eval = 4 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Then
        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM preguntas_sm WHERE id_evaluacion=" & ID_EVAL
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "sm0")
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Panel_open = False
            Me.Close()
        End Try
        '-- Limpiar Controles

        lbl_p1.Text = ""
        lbl_p2.Text = ""
        lbl_p3.Text = ""
        lbl_p4.Text = ""
        lbl_p5.Text = ""

        lbl_plra.Text = ""
        lbl_plrb.Text = ""
        lbl_plrc.Text = ""

        lbl_p2ra.Text = ""

```

```

lbl_p2rb.Text = ""
lbl_p2rc.Text = ""

lbl_p3ra.Text = ""
lbl_p3rb.Text = ""
lbl_p3rc.Text = ""

lbl_p4ra.Text = ""
lbl_p4rb.Text = ""
lbl_p4rc.Text = ""

lbl_p5ra.Text = ""
lbl_p5rb.Text = ""
lbl_p5rc.Text = ""

'-- Limpiar Controles 2

lbl_p12.Text = ""
lbl_p22.Text = ""
lbl_p32.Text = ""
lbl_p42.Text = ""
lbl_p52.Text = ""

lbl_p12ra.Text = ""
lbl_p12rb.Text = ""
lbl_p12rc.Text = ""

lbl_p22ra.Text = ""
lbl_p22rb.Text = ""
lbl_p22rc.Text = ""

lbl_p32ra.Text = ""
lbl_p32rb.Text = ""
lbl_p32rc.Text = ""

lbl_p42ra.Text = ""
lbl_p42rb.Text = ""
lbl_p42rc.Text = ""

lbl_p52ra.Text = ""
lbl_p52rb.Text = ""
lbl_p52rc.Text = ""

'-- Parte 1
If NP_Opc >= 1 Then
    lbl_p1.Text = "1) " &
Trim(MyDataSet.Tables("sm0").Rows(0).Item("texto_pregunta"))
    lbl_p1ra.Text = Trim(MyDataSet.Tables("sm0").Rows(0).Item("a"))
    lbl_p1rb.Text = Trim(MyDataSet.Tables("sm0").Rows(0).Item("b"))
    lbl_p1rc.Text = Trim(MyDataSet.Tables("sm0").Rows(0).Item("c"))
End If

If NP_Opc >= 2 Then
    lbl_p2.Text = "2) " &
Trim(MyDataSet.Tables("sm0").Rows(1).Item("texto_pregunta"))
    lbl_p2ra.Text = Trim(MyDataSet.Tables("sm0").Rows(1).Item("a"))
    lbl_p2rb.Text = Trim(MyDataSet.Tables("sm0").Rows(1).Item("b"))
    lbl_p2rc.Text = Trim(MyDataSet.Tables("sm0").Rows(1).Item("c"))
End If

If NP_Opc >= 3 Then
    lbl_p3.Text = "3) " &
Trim(MyDataSet.Tables("sm0").Rows(2).Item("texto_pregunta"))
    lbl_p3ra.Text = Trim(MyDataSet.Tables("sm0").Rows(2).Item("a"))
    lbl_p3rb.Text = Trim(MyDataSet.Tables("sm0").Rows(2).Item("b"))
    lbl_p3rc.Text = Trim(MyDataSet.Tables("sm0").Rows(2).Item("c"))
End If

If NP_Opc >= 4 Then
    lbl_p4.Text = "4) " &
Trim(MyDataSet.Tables("sm0").Rows(3).Item("texto_pregunta"))
    lbl_p4ra.Text = Trim(MyDataSet.Tables("sm0").Rows(3).Item("a"))
    lbl_p4rb.Text = Trim(MyDataSet.Tables("sm0").Rows(3).Item("b"))

```

```

        lbl_p4rc.Text = Trim(MyDataSet.Tables("sm0").Rows(3).Item("c"))
    End If

    If NP_Opc >= 5 Then
        lbl_p5.Text = "5) " &
Trim(MyDataSet.Tables("sm0").Rows(4).Item("texto_pregunta"))
        lbl_p5ra.Text = Trim(MyDataSet.Tables("sm0").Rows(4).Item("a"))
        lbl_p5rb.Text = Trim(MyDataSet.Tables("sm0").Rows(4).Item("b"))
        lbl_p5rc.Text = Trim(MyDataSet.Tables("sm0").Rows(4).Item("c"))
    End If

    '-- Parte 2
    If NP_Opc >= 1 Then
        lbl_p12.Text = "1) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
0).Item("texto_pregunta"))
        lbl_p12ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 0).Item("a"))
        lbl_p12rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 0).Item("b"))
        lbl_p12rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 0).Item("c"))
    End If

    If NP_Opc >= 2 Then
        lbl_p22.Text = "2) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
1).Item("texto_pregunta"))
        lbl_p22ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 1).Item("a"))
        lbl_p22rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 1).Item("b"))
        lbl_p22rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 1).Item("c"))
    End If

    If NP_Opc >= 3 Then
        lbl_p32.Text = "3) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
2).Item("texto_pregunta"))
        lbl_p32ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 2).Item("a"))
        lbl_p32rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 2).Item("b"))
        lbl_p32rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 2).Item("c"))
    End If
    PB_Sig_Opc12.Visible = False
    If NP_Opc >= 4 Then
        PB_Sig_Opc12.Visible = True
        lbl_p42.Text = "4) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
3).Item("texto_pregunta"))
        lbl_p42ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 3).Item("a"))
        lbl_p42rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 3).Item("b"))
        lbl_p42rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 3).Item("c"))
    End If

    If NP_Opc >= 5 Then
        lbl_p52.Text = "5) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
4).Item("texto_pregunta"))
        lbl_p52ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 4).Item("a"))
        lbl_p52rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 4).Item("b"))
        lbl_p52rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 4).Item("c"))
    End If
End If

'---- VERDADERO Y FALSO -----
If Tipo_Eval = 2 Or Tipo_Eval = 4 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM preguntas_fv WHERE id_evaluacion=" & ID_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "fv0")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try
    '-- Limpiar Controles 1

```

```

lbl_fv_p1.Text = ""
lbl_fv_p2.Text = ""
lbl_fv_p3.Text = ""
lbl_fv_p4.Text = ""
lbl_fv_p5.Text = ""

lbl_fv_r1.Text = ""
lbl_fv_r2.Text = ""
lbl_fv_r3.Text = ""
lbl_fv_r4.Text = ""
lbl_fv_r5.Text = ""

'-- Limpiar Controles 2
lbl_fv_p12.Text = ""
lbl_fv_p22.Text = ""
lbl_fv_p32.Text = ""
lbl_fv_p42.Text = ""
lbl_fv_p52.Text = ""

lbl_fv_r12.Text = ""
lbl_fv_r22.Text = ""
lbl_fv_r32.Text = ""
lbl_fv_r42.Text = ""
lbl_fv_r52.Text = ""
'-- Llenar Datos Parte 1
If NP_FV >= 1 Then
    lbl_fv_p1.Text = "1) " &
Trim(MyDataSet.Tables("fv0").Rows(0).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(0).Item("respuesta")) = "v" Then
        lbl_fv_r1.Text = "VERDADERO"
    Else
        lbl_fv_r1.Text = "FALSO"
    End If
End If

If NP_FV >= 2 Then
    lbl_fv_p2.Text = "2) " &
Trim(MyDataSet.Tables("fv0").Rows(1).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(1).Item("respuesta")) = "v" Then
        lbl_fv_r2.Text = "VERDADERO"
    Else
        lbl_fv_r2.Text = "FALSO"
    End If
End If

If NP_FV >= 3 Then
    lbl_fv_p3.Text = "3) " &
Trim(MyDataSet.Tables("fv0").Rows(2).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(2).Item("respuesta")) = "v" Then
        lbl_fv_r3.Text = "VERDADERO"
    Else
        lbl_fv_r3.Text = "FALSO"
    End If
End If

If NP_FV >= 4 Then
    lbl_fv_p4.Text = "4) " &
Trim(MyDataSet.Tables("fv0").Rows(3).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(3).Item("respuesta")) = "v" Then
        lbl_fv_r4.Text = "VERDADERO"
    Else
        lbl_fv_r4.Text = "FALSO"
    End If
End If

If NP_FV >= 5 Then
    lbl_fv_p5.Text = "5) " &
Trim(MyDataSet.Tables("fv0").Rows(4).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(4).Item("respuesta")) = "v" Then
        lbl_fv_r5.Text = "VERDADERO"
    Else
        lbl_fv_r5.Text = "FALSO"
    End If

```

```

End If

'--- Llenar Datos Parte 2
If NP_FV >= 1 Then
    lbl_fv_p12.Text = "1) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
0).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 0).Item("respuesta")) = "V" Then
        lbl_fv_r12.Text = "VERDADERO"
    Else
        lbl_fv_r12.Text = "FALSO"
    End If
End If

If NP_FV >= 2 Then
    lbl_fv_p22.Text = "2) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
1).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 1).Item("respuesta")) = "V" Then
        lbl_fv_r22.Text = "VERDADERO"
    Else
        lbl_fv_r22.Text = "FALSO"
    End If
End If

If NP_FV >= 3 Then
    lbl_fv_p32.Text = "3) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
2).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 2).Item("respuesta")) = "V" Then
        lbl_fv_r32.Text = "VERDADERO"
    Else
        lbl_fv_r32.Text = "FALSO"
    End If
End If

If NP_FV >= 4 Then
    lbl_fv_p42.Text = "4) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
3).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 3).Item("respuesta")) = "V" Then
        lbl_fv_r42.Text = "VERDADERO"
    Else
        lbl_fv_r42.Text = "FALSO"
    End If
End If

If NP_FV >= 5 Then
    lbl_fv_p52.Text = "5) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
4).Item("texto_pregunta"))
    If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 4).Item("respuesta")) = "V" Then
        lbl_fv_r52.Text = "VERDADERO"
    Else
        lbl_fv_r52.Text = "FALSO"
    End If
End If

End If
'----- PARENTESIS -----
If Tipo_Eval = 3 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
    With Adapter.SelectCommand
        ID_EVAL.CommandText = "SELECT * FROM preguntas_parentesis WHERE id_evaluacion=" &
        ID_EVAL.Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "parp")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" & _
            vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

```

```

'-- Controles 1
lbl_par_lit_A.Visible = False
lbl_par_lit_B.Visible = False
lbl_par_lit_C.Visible = False
lbl_par_lit_D.Visible = False
lbl_par_lit_E.Visible = False

lbl_par_p1.Text = ""
lbl_par_p2.Text = ""
lbl_par_p3.Text = ""
lbl_par_p4.Text = ""
lbl_par_p5.Text = ""

lbl_par_r1.Text = ""
lbl_par_r2.Text = ""
lbl_par_r3.Text = ""
lbl_par_r4.Text = ""
lbl_par_r5.Text = ""

lbl_par_par1.Text = ""
lbl_par_par2.Text = ""
lbl_par_par3.Text = ""
lbl_par_par4.Text = ""
lbl_par_par5.Text = ""
lbl_par_par6.Text = ""

'-- Controles 2
lbl_par_lit_A2.Visible = False
lbl_par_lit_B2.Visible = False
lbl_par_lit_C2.Visible = False
lbl_par_lit_D2.Visible = False
lbl_par_lit_E2.Visible = False

lbl_par_p12.Text = ""
lbl_par_p22.Text = ""
lbl_par_p32.Text = ""
lbl_par_p42.Text = ""
lbl_par_p52.Text = ""

lbl_par_r12.Text = ""
lbl_par_r22.Text = ""
lbl_par_r32.Text = ""
lbl_par_r42.Text = ""
lbl_par_r52.Text = ""

lbl_par_par12.Text = ""
lbl_par_par22.Text = ""
lbl_par_par32.Text = ""
lbl_par_par42.Text = ""
lbl_par_par52.Text = ""

'--- Preguntas-- Parte 1
If NP_Par >= 1 Then
    lbl_par_lit_A.Visible = True
    lbl_par_p1.Text = Trim(MyDataSet.Tables("parp").Rows(0).Item("texto_pregunta"))
End If
If NP_Par >= 2 Then
    lbl_par_lit_B.Visible = True
    lbl_par_p2.Text = Trim(MyDataSet.Tables("parp").Rows(1).Item("texto_pregunta"))
End If
If NP_Par >= 3 Then
    lbl_par_lit_C.Visible = True
    lbl_par_p3.Text = Trim(MyDataSet.Tables("parp").Rows(2).Item("texto_pregunta"))
End If
If NP_Par >= 4 Then
    lbl_par_lit_D.Visible = True
    lbl_par_p4.Text = Trim(MyDataSet.Tables("parp").Rows(3).Item("texto_pregunta"))
End If
If NP_Par >= 5 Then
    lbl_par_lit_E.Visible = True
    lbl_par_p5.Text = Trim(MyDataSet.Tables("parp").Rows(4).Item("texto_pregunta"))
End If

```

```

'--- Preguntas-- Parte 2
If NP_Par >= 1 Then
    lbl_par_lit_A2.Visible = True
    lbl_par_p12.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
0).Item("texto_pregunta"))
End If
If NP_Par >= 2 Then
    lbl_par_lit_B2.Visible = True
    lbl_par_p22.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
1).Item("texto_pregunta"))
End If
If NP_Par >= 3 Then
    lbl_par_lit_C2.Visible = True
    lbl_par_p32.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
2).Item("texto_pregunta"))
End If
If NP_Par >= 4 Then
    lbl_par_lit_D2.Visible = True
    lbl_par_p42.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
3).Item("texto_pregunta"))
End If
If NP_Par >= 5 Then
    lbl_par_lit_E2.Visible = True
    lbl_par_p52.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
4).Item("texto_pregunta"))
End If

'--- Respuestas
With Adapter.SelectCommand
    .CommandText = "SELECT * FROM respuestas_parentesis WHERE id_evaluacion=" &
ID_EVAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "parr")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return Nothing
    Panel_open = False
    Me.Close()
    Return Nothing
End Try

If NP_Par >= 1 Then
    lbl_par_r1.Text = Trim(MyDataSet.Tables("parr").Rows(0).Item("texto_resp"))
    If Trim(MyDataSet.Tables("parr").Rows(0).Item("correcta")) = "VACIO" Then
        lbl_par_par1.Text = "( )"
    Else
        lbl_par_par1.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(0).Item("correcta")) & ")"
    End If
End If

If NP_Par >= 2 Then
    lbl_par_r2.Text = Trim(MyDataSet.Tables("parr").Rows(1).Item("texto_resp"))
    If Trim(MyDataSet.Tables("parr").Rows(1).Item("correcta")) = "VACIO" Then
        lbl_par_par2.Text = "( )"
    Else
        lbl_par_par2.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(1).Item("correcta")) & ")"
    End If
End If

If NP_Par >= 3 Then
    lbl_par_r3.Text = Trim(MyDataSet.Tables("parr").Rows(2).Item("texto_resp"))
    If Trim(MyDataSet.Tables("parr").Rows(2).Item("correcta")) = "VACIO" Then
        lbl_par_par3.Text = "( )"
    End If
End If

```

```

Else
    lbl_par_par3.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(2).Item("correcta")) & ")"
End If
End If

If NP_Par >= 4 Then
    lbl_par_r4.Text = Trim(MyDataSet.Tables("parr").Rows(3).Item("texto_resp"))
    If Trim(MyDataSet.Tables("parr").Rows(3).Item("correcta")) = "VACIO" Then
        lbl_par_par4.Text = "( )"
    Else
        lbl_par_par4.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(3).Item("correcta")) & ")"
    End If
End If

If NP_Par >= 5 Then
    lbl_par_r5.Text = Trim(MyDataSet.Tables("parr").Rows(4).Item("texto_resp"))
    If Trim(MyDataSet.Tables("parr").Rows(4).Item("correcta")) = "VACIO" Then
        lbl_par_par5.Text = "( )"
    Else
        lbl_par_par5.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(4).Item("correcta")) & ")"
    End If
End If

'La Extra
lbl_par_r6.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par).Item("texto_resp"))
If Trim(MyDataSet.Tables("parr").Rows(NP_Par).Item("correcta")) = "VACIO" Then
    lbl_par_par6.Text = "( )"
Else
    lbl_par_par6.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(NP_Par).Item("correcta")) & ")"
End If

'-- La 2a Parte
If NP_Par >= 1 Then
    lbl_par_r12.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
1).Item("texto_resp"))
    lbl_par_par12.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
1).Item("correcta")) & ")"
End If
If NP_Par >= 2 Then
    lbl_par_r22.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
2).Item("texto_resp"))
    lbl_par_par22.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
2).Item("correcta")) & ")"
End If
If NP_Par >= 3 Then
    lbl_par_r32.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
3).Item("texto_resp"))
    lbl_par_par32.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
3).Item("correcta")) & ")"
End If
If NP_Par >= 4 Then
    lbl_par_r42.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
4).Item("texto_resp"))
    lbl_par_par42.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
4).Item("correcta")) & ")"
End If
If NP_Par >= 5 Then
    lbl_par_r52.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
5).Item("texto_resp"))
    lbl_par_par52.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
5).Item("correcta")) & ")"
End If
End If

'--- Combo Tipo de Secciones
Inicio_Combo2 = True
cmb_seccion.Items.Clear()
cmb_seccion.Items.Add("NINGUNA")

```



```

    If Tipo_Eval = 1 Or Tipo_Eval = 4 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Then
        cmb_seccion.Items.Add("OPCION MULTIPLE")
    End If
    If Tipo_Eval = 2 Or Tipo_Eval = 4 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
        cmb_seccion.Items.Add("VERDADERO Y FALSO")
    End If
    If Tipo_Eval = 3 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
        cmb_seccion.Items.Add("PARENTESIS")
    End If
    cmb_seccion.SelectedIndex = 0
    Inicio_Combo2 = False

    Me.Cursor = System.Windows.Forms.Cursors.Default

End Function
Private Sub cmb_eval_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_eval.SelectedIndexChanged
    If Inicio_Combo = False Then
        Dim pos_x As Integer
        Dim id_eval As String

        pos_x = InStrRev(cmb_eval.SelectedItem, " ")
        id_eval = Mid(cmb_eval.SelectedItem, pos_x + 1, cmb_eval.SelectedItem.Length)

        Carga_Datos_Eval(id_eval)

    End If
End Sub
Private Sub cmb_seccion_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_seccion.SelectedIndexChanged
    If Inicio_Combo2 = False Then
        If cmb_seccion.SelectedItem = "NINGUNA" Then
            Oculta_Paneles()
        End If
        If cmb_seccion.SelectedItem = "OPCION MULTIPLE" Then
            Oculta_Paneles()
            pan_opc_1.Visible = True
        End If
        If cmb_seccion.SelectedItem = "VERDADERO Y FALSO" Then
            Oculta_Paneles()
            pan_fv.Visible = True
        End If
        If cmb_seccion.SelectedItem = "PARENTESIS" Then
            Oculta_Paneles()
            pan_par.Visible = True
        End If
    End If
End Sub
Private Sub PB_Sig_Opc_11_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_Opc_11.Click
    Oculta_Paneles()
    If NP_Opc > 3 Then
        pan_opc_2.Visible = True
    Else
        pan_opc_12.Visible = True
    End If
End Sub
Private Sub PB_Atras_Par12_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PB_Atras_Par12.Click
    Oculta_Paneles()
    pan_opc_1.Visible = True
End Sub
Private Sub B_Sig_Par_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Sig_Par.Click
    Oculta_Paneles()
    pan_par2.Visible = True
End Sub
Private Sub PB_atras_par_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_atras_par.Click
    Oculta_Paneles()
    pan_par.Visible = True
End Sub

```

```

    Private Sub PB_Atras_fv2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Atras_fv2.Click
    Oculta_Paneles()
    pan_fv.Visible = True
    End Sub
    Private Sub PB_Sig_fv1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_fv1.Click
    Oculta_Paneles()
    pan_fv2.Visible = True
    End Sub
    Private Sub PB_Atras_Opc12_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PB_Atras_Opc12.Click
    Oculta_Paneles()
    If NP_Opc > 3 Then
        pan_opc_2.Visible = True
    Else
        pan_opc_1.Visible = True
    End If
    End Sub
    Private Sub PB_Sig_Opc12_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_Opc12.Click
    Oculta_Paneles()
    If NP_Opc > 3 Then
        pan_opc_22.Visible = True
    End If
    End Sub
    Private Sub PB_atras_opc22_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PB_atras_opc22.Click
    Oculta_Paneles()
    pan_opc_12.Visible = True
    End Sub
    Private Sub PB_Sig_Par12_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_Par12.Click
    Oculta_Paneles()
    pan_opc_12.Visible = True
    End Sub
    Private Sub PB_Mod_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Mod.Click
    Dim pos_x As Integer
    pos_x = InStrRev(cmb_eval.SelectedItem, " ")
    ID_Eval_GLOBAL = Mid(cmb_eval.SelectedItem, pos_x + 1, cmb_eval.SelectedItem.Length)
    If ID_Eval_GLOBAL > 0 Then
        Dim MyFrm As frm_admin_eval_chg = New frm_admin_eval_chg
        Me.AddOwnedForm(MyFrm)
        MyFrm.Show()
    End If
    End Sub
End Class

```

12. TEXTOS

Nombre del Objeto: frm_admin_textos

Código:

```

Public Class frm_admin_eval_view
    Inherits System.Windows.Forms.Form
    Dim Pos_Paneles As System.Drawing.Point
    Dim Tipo_Eval As Integer
    Dim NP_Opc, NP_FV, NP_Par As Integer
    Dim Inicio_Combo As Boolean
    Dim Inicio_Combo2 As Boolean

```

Windows Form Designer generated code

```

    Private Sub frm_admin_eval_view_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

```

```

'--PERMISOS
If PERM_UPD = False Then
    PB_Mod.Visible = False
End If

'--Darle Forma al form

Dim tama As System.Drawing.Size
tama.Width = 536
tama.Height = 550
Me.Size = tama

'--Darle forma a los paneles
Pos_Paneles.X = 8
Pos_Paneles.Y = 88

tama.Width = 512
tama.Height = 432

pan_fv.Location = Pos_Paneles
pan_fv.Size = tama
pan_opc_1.Location = Pos_Paneles
pan_opc_1.Size = tama
pan_opc_2.Location = Pos_Paneles
pan_opc_2.Size = tama
pan_par.Location = Pos_Paneles
pan_par.Size = tama

pan_fv2.Location = Pos_Paneles
pan_fv2.Size = tama
pan_opc_12.Location = Pos_Paneles
pan_opc_12.Size = tama
pan_opc_22.Location = Pos_Paneles
pan_opc_22.Size = tama
pan_par2.Location = Pos_Paneles
pan_par2.Size = tama
'-----
Ocultar_Paneles()
'---Cargar Evaluaciones-----

Me.Cursor = Windows.Forms.Cursors.WaitCursor

cmb_eval.Items.Clear()
Dim MyDataSet As New DataSet

With Adapter.SelectCommand
    .CommandText = "SELECT e.id_evaluacion, e.id_tema, e.tipo_evaluacion," & _
        " e.num_preguntas FROM evaluaciones e" & _
        ", temas t, unidad u WHERE e.id_tema = t.id_tema AND t.id_unidad = " & _
        "u.id_unidad AND u.id_usuario = " & ID_Us_GLOBAL
    .Connection = MyCon
End With
Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "eval")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" & _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Panel_open = False
    Me.Close()
End Try

If MyDataSet.Tables("eval").Rows.Count = 0 Then
    Me.Cursor = Windows.Forms.Cursors.Default
    MsgBox("No se ha creado ninguna evaluación", MsgBoxStyle.Exclamation, "EduCienSys")
    Panel_open = False
    Me.Close()
End If

Dim indice As Integer
Dim id_tema, tipo_eval, num_preg As Integer

```

```

Inicio_Combo = True
Dim i As Integer
For i = 0 To MyDataSet.Tables("eval").Rows.Count - 1
    indice = MyDataSet.Tables("eval").Rows(i).Item("id_evaluacion")
    id_tema = MyDataSet.Tables("eval").Rows(i).Item("id_tema")
    tipo_eval = MyDataSet.Tables("eval").Rows(i).Item("tipo_evaluacion")
    num_preg = MyDataSet.Tables("eval").Rows(i).Item("num_preguntas")
    cmb_eval.Items.Add(Devuelve_datos(id_tema) & SPACIOS & indice)
    'chk_eval_del.Items.Add(indice & "-")
Next

Inicio_Combo = False
cmb_eval.SelectedIndex = 0

'--- Inicializar Valores

tipo_eval = 0
'     NP_Opc = 0
'     NP_FV = 0
'     NP_Par = 0
'-----

Me.Cursor = Windows.Forms.Cursors.Default

End Sub
Private Function Oculta_Paneles()
    pan_opc_1.Visible = False
    pan_opc_2.Visible = False
    pan_par.Visible = False
    pan_fv.Visible = False

    pan_opc_12.Visible = False
    pan_opc_22.Visible = False
    pan_par2.Visible = False
    pan_fv2.Visible = False

End Function
Private Function Devuelve_datos(ByVal id_tema As Integer)

    Dim MyDataSet As New DataSet
    With Adapter2.SelectCommand
        .CommandText = "SELECT * FROM temas WHERE id_tema=" & id_tema
        .Connection = MyCon
    End With

    Adapter2.Fill(MyDataSet)
    Dim cad As String

    If MyDataSet.Tables(0).Rows.Count = 0 Then
        cad = "[Tema Desconocido]"
    Else
        cad = Trim(MyDataSet.Tables(0).Rows(0).Item("nombre_tema"))
    End If

    Return cad

End Function
Private Sub frm_admin_eval_view_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Panel_open = False
End Sub
Private Function Carga_Datos_Eval(ByVal ID_EVAL As Integer)

    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    Dim MyDataSet As New DataSet
    'Dim Tipo_Eval As Integer
    '----- TIPO DE EVALUACION -----

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM evaluaciones WHERE id_evaluacion=" & ID_EVAL
        .Connection = MyCon
    End With

```

```

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "eval0")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Panel_open = False
    Me.Close()
End Try

Tipo_Eval = MyDataSet.Tables("eval0").Rows(0).Item("tipo_evaluacion")
NP_Opc = MyDataSet.Tables("eval0").Rows(0).Item("num_opc")
NP_FV = MyDataSet.Tables("eval0").Rows(0).Item("num_fv")
NP_Par = MyDataSet.Tables("eval0").Rows(0).Item("num_par")
'-----OPCION MULTIPLE-----
If Tipo_Eval = 1 Or Tipo_Eval = 4 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Then
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM preguntas_sm WHERE id_evaluacion=" & ID_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "sm0")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    '-- Limpiar Controles

    lbl_p1.Text = ""
    lbl_p2.Text = ""
    lbl_p3.Text = ""
    lbl_p4.Text = ""
    lbl_p5.Text = ""

    lbl_p1ra.Text = ""
    lbl_p1rb.Text = ""
    lbl_p1rc.Text = ""

    lbl_p2ra.Text = ""
    lbl_p2rb.Text = ""
    lbl_p2rc.Text = ""

    lbl_p3ra.Text = ""
    lbl_p3rb.Text = ""
    lbl_p3rc.Text = ""

    lbl_p4ra.Text = ""
    lbl_p4rb.Text = ""
    lbl_p4rc.Text = ""

    lbl_p5ra.Text = ""
    lbl_p5rb.Text = ""
    lbl_p5rc.Text = ""

    '-- Limpiar Controles 2

    lbl_p12.Text = ""
    lbl_p22.Text = ""
    lbl_p32.Text = ""
    lbl_p42.Text = ""
    lbl_p52.Text = ""

    lbl_p12ra.Text = ""
    lbl_p12rb.Text = ""

```

```

lbl_p12rc.Text = ""

lbl_p22ra.Text = ""
lbl_p22rb.Text = ""
lbl_p22rc.Text = ""

lbl_p32ra.Text = ""
lbl_p32rb.Text = ""
lbl_p32rc.Text = ""

lbl_p42ra.Text = ""
lbl_p42rb.Text = ""
lbl_p42rc.Text = ""

lbl_p52ra.Text = ""
lbl_p52rb.Text = ""
lbl_p52rc.Text = ""

'-- Parte 1
If NP_Opc >= 1 Then
    lbl_p1.Text = "1) " &
Trim(MyDataSet.Tables("sm0").Rows(0).Item("texto_pregunta"))
    lbl_p1ra.Text = Trim(MyDataSet.Tables("sm0").Rows(0).Item("a"))
    lbl_p1rb.Text = Trim(MyDataSet.Tables("sm0").Rows(0).Item("b"))
    lbl_p1rc.Text = Trim(MyDataSet.Tables("sm0").Rows(0).Item("c"))
End If

If NP_Opc >= 2 Then
    lbl_p2.Text = "2) " &
Trim(MyDataSet.Tables("sm0").Rows(1).Item("texto_pregunta"))
    lbl_p2ra.Text = Trim(MyDataSet.Tables("sm0").Rows(1).Item("a"))
    lbl_p2rb.Text = Trim(MyDataSet.Tables("sm0").Rows(1).Item("b"))
    lbl_p2rc.Text = Trim(MyDataSet.Tables("sm0").Rows(1).Item("c"))
End If

If NP_Opc >= 3 Then
    lbl_p3.Text = "3) " &
Trim(MyDataSet.Tables("sm0").Rows(2).Item("texto_pregunta"))
    lbl_p3ra.Text = Trim(MyDataSet.Tables("sm0").Rows(2).Item("a"))
    lbl_p3rb.Text = Trim(MyDataSet.Tables("sm0").Rows(2).Item("b"))
    lbl_p3rc.Text = Trim(MyDataSet.Tables("sm0").Rows(2).Item("c"))
End If

If NP_Opc >= 4 Then
    lbl_p4.Text = "4) " &
Trim(MyDataSet.Tables("sm0").Rows(3).Item("texto_pregunta"))
    lbl_p4ra.Text = Trim(MyDataSet.Tables("sm0").Rows(3).Item("a"))
    lbl_p4rb.Text = Trim(MyDataSet.Tables("sm0").Rows(3).Item("b"))
    lbl_p4rc.Text = Trim(MyDataSet.Tables("sm0").Rows(3).Item("c"))
End If

If NP_Opc >= 5 Then
    lbl_p5.Text = "5) " &
Trim(MyDataSet.Tables("sm0").Rows(4).Item("texto_pregunta"))
    lbl_p5ra.Text = Trim(MyDataSet.Tables("sm0").Rows(4).Item("a"))
    lbl_p5rb.Text = Trim(MyDataSet.Tables("sm0").Rows(4).Item("b"))
    lbl_p5rc.Text = Trim(MyDataSet.Tables("sm0").Rows(4).Item("c"))
End If

'-- Parte 2
If NP_Opc >= 1 Then
    lbl_p12.Text = "1) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
0).Item("texto_pregunta"))
    lbl_p12ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 0).Item("a"))
    lbl_p12rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 0).Item("b"))
    lbl_p12rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 0).Item("c"))
End If

If NP_Opc >= 2 Then
    lbl_p22.Text = "2) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
1).Item("texto_pregunta"))
    lbl_p22ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 1).Item("a"))
    lbl_p22rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 1).Item("b"))

```

```

        lbl_p22rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 1).Item("c"))
    End If

    If NP_Opc >= 3 Then
        lbl_p32.Text = "3) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
2).Item("texto_pregunta"))
        lbl_p32ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 2).Item("a"))
        lbl_p32rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 2).Item("b"))
        lbl_p32rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 2).Item("c"))
    End If
    PB_Sig_Opc12.Visible = False
    If NP_Opc >= 4 Then
        PB_Sig_Opc12.Visible = True
        lbl_p42.Text = "4) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
3).Item("texto_pregunta"))
        lbl_p42ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 3).Item("a"))
        lbl_p42rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 3).Item("b"))
        lbl_p42rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 3).Item("c"))
    End If

    If NP_Opc >= 5 Then
        lbl_p52.Text = "5) " & Trim(MyDataSet.Tables("sm0").Rows(NP_Opc +
4).Item("texto_pregunta"))
        lbl_p52ra.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 4).Item("a"))
        lbl_p52rb.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 4).Item("b"))
        lbl_p52rc.Text = Trim(MyDataSet.Tables("sm0").Rows(NP_Opc + 4).Item("c"))
    End If
End If

'----- VERDADERO Y FALSO -----
If Tipo_Eval = 2 Or Tipo_Eval = 4 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM preguntas_fv WHERE id_evaluacion=" & ID_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "fv0")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    '-- Limpiar Controles 1
    lbl_fv_p1.Text = ""
    lbl_fv_p2.Text = ""
    lbl_fv_p3.Text = ""
    lbl_fv_p4.Text = ""
    lbl_fv_p5.Text = ""

    lbl_fv_r1.Text = ""
    lbl_fv_r2.Text = ""
    lbl_fv_r3.Text = ""
    lbl_fv_r4.Text = ""
    lbl_fv_r5.Text = ""

    '-- Limpiar Controles 2
    lbl_fv_p12.Text = ""
    lbl_fv_p22.Text = ""
    lbl_fv_p32.Text = ""
    lbl_fv_p42.Text = ""
    lbl_fv_p52.Text = ""

    lbl_fv_r12.Text = ""
    lbl_fv_r22.Text = ""
    lbl_fv_r32.Text = ""
    lbl_fv_r42.Text = ""
    lbl_fv_r52.Text = ""
    '-- Llenar Datos Parte 1

```

```

    If NP_FV >= 1 Then
        lbl_fv_p1.Text = "1) " &
Trim(MyDataSet.Tables("fv0").Rows(0).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(0).Item("respuesta")) = "V" Then
            lbl_fv_r1.Text = "VERDADERO"
        Else
            lbl_fv_r1.Text = "FALSO"
        End If
    End If

    If NP_FV >= 2 Then
        lbl_fv_p2.Text = "2) " &
Trim(MyDataSet.Tables("fv0").Rows(1).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(1).Item("respuesta")) = "V" Then
            lbl_fv_r2.Text = "VERDADERO"
        Else
            lbl_fv_r2.Text = "FALSO"
        End If
    End If

    If NP_FV >= 3 Then
        lbl_fv_p3.Text = "3) " &
Trim(MyDataSet.Tables("fv0").Rows(2).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(2).Item("respuesta")) = "V" Then
            lbl_fv_r3.Text = "VERDADERO"
        Else
            lbl_fv_r3.Text = "FALSO"
        End If
    End If

    If NP_FV >= 4 Then
        lbl_fv_p4.Text = "4) " &
Trim(MyDataSet.Tables("fv0").Rows(3).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(3).Item("respuesta")) = "V" Then
            lbl_fv_r4.Text = "VERDADERO"
        Else
            lbl_fv_r4.Text = "FALSO"
        End If
    End If

    If NP_FV >= 5 Then
        lbl_fv_p5.Text = "5) " &
Trim(MyDataSet.Tables("fv0").Rows(4).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(4).Item("respuesta")) = "V" Then
            lbl_fv_r5.Text = "VERDADERO"
        Else
            lbl_fv_r5.Text = "FALSO"
        End If
    End If

    '-- Llenar Datos Parte 2
    If NP_FV >= 1 Then
        lbl_fv_p12.Text = "1) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
0).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 0).Item("respuesta")) = "V" Then
            lbl_fv_r12.Text = "VERDADERO"
        Else
            lbl_fv_r12.Text = "FALSO"
        End If
    End If

    If NP_FV >= 2 Then
        lbl_fv_p22.Text = "2) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
1).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 1).Item("respuesta")) = "V" Then
            lbl_fv_r22.Text = "VERDADERO"
        Else
            lbl_fv_r22.Text = "FALSO"
        End If
    End If

    If NP_FV >= 3 Then

```



```

        lbl_fv_p32.Text = "3) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
2).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 2).Item("respuesta")) = "V" Then
            lbl_fv_r32.Text = "VERDADERO"
        Else
            lbl_fv_r32.Text = "FALSO"
        End If
    End If

    If NP_FV >= 4 Then
        lbl_fv_p42.Text = "4) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
3).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 3).Item("respuesta")) = "V" Then
            lbl_fv_r42.Text = "VERDADERO"
        Else
            lbl_fv_r42.Text = "FALSO"
        End If
    End If

    If NP_FV >= 5 Then
        lbl_fv_p52.Text = "5) " & Trim(MyDataSet.Tables("fv0").Rows(NP_FV +
4).Item("texto_pregunta"))
        If Trim(MyDataSet.Tables("fv0").Rows(NP_FV + 4).Item("respuesta")) = "V" Then
            lbl_fv_r52.Text = "VERDADERO"
        Else
            lbl_fv_r52.Text = "FALSO"
        End If
    End If

End If
'----- PARENTESIS -----
If Tipo_Eval = 3 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM preguntas_parentesis WHERE id_evaluacion=" &
ID_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "parp")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    '-- Controles 1
    lbl_par_lit_A.Visible = False
    lbl_par_lit_B.Visible = False
    lbl_par_lit_C.Visible = False
    lbl_par_lit_D.Visible = False
    lbl_par_lit_E.Visible = False

    lbl_par_p1.Text = ""
    lbl_par_p2.Text = ""
    lbl_par_p3.Text = ""
    lbl_par_p4.Text = ""
    lbl_par_p5.Text = ""

    lbl_par_r1.Text = ""
    lbl_par_r2.Text = ""
    lbl_par_r3.Text = ""
    lbl_par_r4.Text = ""
    lbl_par_r5.Text = ""

    lbl_par_par1.Text = ""
    lbl_par_par2.Text = ""
    lbl_par_par3.Text = ""
    lbl_par_par4.Text = ""
    lbl_par_par5.Text = ""

```

```

lbl_par_par6.Text = ""

'-- Controles 2
lbl_par_lit_A2.Visible = False
lbl_par_lit_B2.Visible = False
lbl_par_lit_C2.Visible = False
lbl_par_lit_D2.Visible = False
lbl_par_lit_E2.Visible = False

lbl_par_p12.Text = ""
lbl_par_p22.Text = ""
lbl_par_p32.Text = ""
lbl_par_p42.Text = ""
lbl_par_p52.Text = ""

lbl_par_r12.Text = ""
lbl_par_r22.Text = ""
lbl_par_r32.Text = ""
lbl_par_r42.Text = ""
lbl_par_r52.Text = ""

lbl_par_par12.Text = ""
lbl_par_par22.Text = ""
lbl_par_par32.Text = ""
lbl_par_par42.Text = ""
lbl_par_par52.Text = ""

'--- Preguntas-- Parte 1
If NP_Par >= 1 Then
    lbl_par_lit_A.Visible = True
    lbl_par_p1.Text = Trim(MyDataSet.Tables("parp").Rows(0).Item("texto_pregunta"))
End If
If NP_Par >= 2 Then
    lbl_par_lit_B.Visible = True
    lbl_par_p2.Text = Trim(MyDataSet.Tables("parp").Rows(1).Item("texto_pregunta"))
End If
If NP_Par >= 3 Then
    lbl_par_lit_C.Visible = True
    lbl_par_p3.Text = Trim(MyDataSet.Tables("parp").Rows(2).Item("texto_pregunta"))
End If
If NP_Par >= 4 Then
    lbl_par_lit_D.Visible = True
    lbl_par_p4.Text = Trim(MyDataSet.Tables("parp").Rows(3).Item("texto_pregunta"))
End If
If NP_Par >= 5 Then
    lbl_par_lit_E.Visible = True
    lbl_par_p5.Text = Trim(MyDataSet.Tables("parp").Rows(4).Item("texto_pregunta"))
End If

'--- Preguntas-- Parte 2
If NP_Par >= 1 Then
    lbl_par_lit_A2.Visible = True
    lbl_par_p12.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
0).Item("texto_pregunta"))
End If
If NP_Par >= 2 Then
    lbl_par_lit_B2.Visible = True
    lbl_par_p22.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
1).Item("texto_pregunta"))
End If
If NP_Par >= 3 Then
    lbl_par_lit_C2.Visible = True
    lbl_par_p32.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
2).Item("texto_pregunta"))
End If
If NP_Par >= 4 Then
    lbl_par_lit_D2.Visible = True
    lbl_par_p42.Text = Trim(MyDataSet.Tables("parp").Rows(NP_Par +
3).Item("texto_pregunta"))
End If
If NP_Par >= 5 Then
    lbl_par_lit_E2.Visible = True

```

```

        lbl_par_p52.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
4).Item("texto_pregunta"))
    End If

    '-- Respuestas
    With Adapter.SelectCommand
        ID_EVAL.CommandText = "SELECT * FROM respuestas_parentesis WHERE id_evaluacion=" &
        ID_EVAL.Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "parr")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
        Panel_open = False
        Me.Close()
        Return Nothing
    End Try

    If NP_Par >= 1 Then
        lbl_par_r1.Text = Trim(MyDataSet.Tables("parr").Rows(0).Item("texto_resp"))
        If Trim(MyDataSet.Tables("parr").Rows(0).Item("correcta")) = "VACIO" Then
            lbl_par_par1.Text = "( )"
        Else
            lbl_par_par1.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(0).Item("correcta")) & ")"
        End If
    End If

    If NP_Par >= 2 Then
        lbl_par_r2.Text = Trim(MyDataSet.Tables("parr").Rows(1).Item("texto_resp"))
        If Trim(MyDataSet.Tables("parr").Rows(1).Item("correcta")) = "VACIO" Then
            lbl_par_par2.Text = "( )"
        Else
            lbl_par_par2.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(1).Item("correcta")) & ")"
        End If
    End If

    If NP_Par >= 3 Then
        lbl_par_r3.Text = Trim(MyDataSet.Tables("parr").Rows(2).Item("texto_resp"))
        If Trim(MyDataSet.Tables("parr").Rows(2).Item("correcta")) = "VACIO" Then
            lbl_par_par3.Text = "( )"
        Else
            lbl_par_par3.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(2).Item("correcta")) & ")"
        End If
    End If

    If NP_Par >= 4 Then
        lbl_par_r4.Text = Trim(MyDataSet.Tables("parr").Rows(3).Item("texto_resp"))
        If Trim(MyDataSet.Tables("parr").Rows(3).Item("correcta")) = "VACIO" Then
            lbl_par_par4.Text = "( )"
        Else
            lbl_par_par4.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(3).Item("correcta")) & ")"
        End If
    End If

    If NP_Par >= 5 Then
        lbl_par_r5.Text = Trim(MyDataSet.Tables("parr").Rows(4).Item("texto_resp"))
        If Trim(MyDataSet.Tables("parr").Rows(4).Item("correcta")) = "VACIO" Then
            lbl_par_par5.Text = "( )"
        Else
            lbl_par_par5.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(4).Item("correcta")) & ")"
    End If

```

```

        End If
    End If

    'La Extra
    lbl_par_r6.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par).Item("texto_resp"))
    If Trim(MyDataSet.Tables("parr").Rows(NP_Par).Item("correcta")) = "VACIO" Then
        lbl_par_par6.Text = "( )"
    Else
        lbl_par_par6.Text = "(" &
Trim(MyDataSet.Tables("parr").Rows(NP_Par).Item("correcta")) & ")"
    End If

    '-- La 2a Parte
    If NP_Par >= 1 Then
        lbl_par_r12.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
1).Item("texto_resp"))
        lbl_par_par12.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
1).Item("correcta")) & ")"
    End If
    If NP_Par >= 2 Then
        lbl_par_r22.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
2).Item("texto_resp"))
        lbl_par_par22.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
2).Item("correcta")) & ")"
    End If
    If NP_Par >= 3 Then
        lbl_par_r32.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
3).Item("texto_resp"))
        lbl_par_par32.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
3).Item("correcta")) & ")"
    End If
    If NP_Par >= 4 Then
        lbl_par_r42.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
4).Item("texto_resp"))
        lbl_par_par42.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
4).Item("correcta")) & ")"
    End If
    If NP_Par >= 5 Then
        lbl_par_r52.Text = Trim(MyDataSet.Tables("parr").Rows(NP_Par +
5).Item("texto_resp"))
        lbl_par_par52.Text = "(" & Trim(MyDataSet.Tables("parr").Rows(NP_Par +
5).Item("correcta")) & ")"
    End If
End If

'--- Combo Tipo de Secciones
Inicio_Combo2 = True
cmb_seccion.Items.Clear()
cmb_seccion.Items.Add("NINGUNA")

If Tipo_Eval = 1 Or Tipo_Eval = 4 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Then
    cmb_seccion.Items.Add("OPCION MULTIPLE")
End If
If Tipo_Eval = 2 Or Tipo_Eval = 4 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
    cmb_seccion.Items.Add("VERDADERO Y FALSO")
End If
If Tipo_Eval = 3 Or Tipo_Eval = 5 Or Tipo_Eval = 6 Or Tipo_Eval = 7 Then
    cmb_seccion.Items.Add("PARENTESIS")
End If
cmb_seccion.SelectedIndex = 0
Inicio_Combo2 = False

Me.Cursor = System.Windows.Forms.Cursors.Default

End Function
Private Sub cmb_eval_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_eval.SelectedIndexChanged
    If Inicio_Combo = False Then
        Dim pos_x As Integer
        Dim id_eval As String

        pos_x = InStrRev(cmb_eval.SelectedItem, " ")
        id_eval = Mid(cmb_eval.SelectedItem, pos_x + 1, cmb_eval.SelectedItem.Length)
    End If
End Sub

```

```

        Carga_Datos_Eval(id_eval)

    End If
End Sub
Private Sub cmb_seccion_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmb_seccion.SelectedIndexChanged
    If Inicio_Combo2 = False Then
        If cmb_seccion.SelectedItem = "NINGUNA" Then
            Oculta_Paneles()
        End If
        If cmb_seccion.SelectedItem = "OPCION MULTIPLE" Then
            Oculta_Paneles()
            pan_opc_1.Visible = True
        End If
        If cmb_seccion.SelectedItem = "VERDADERO Y FALSO" Then
            Oculta_Paneles()
            pan_fv.Visible = True
        End If
        If cmb_seccion.SelectedItem = "PARENTESIS" Then
            Oculta_Paneles()
            pan_par.Visible = True
        End If
    End If
End Sub
Private Sub PB_Sig_Opc_11_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_Opc_11.Click
    Oculta_Paneles()
    If NP_Opc > 3 Then
        pan_opc_2.Visible = True
    Else
        pan_opc_12.Visible = True
    End If
End Sub
Private Sub PB_Atras_Par12_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PB_Atras_Par12.Click
    Oculta_Paneles()
    pan_opc_1.Visible = True
End Sub
Private Sub B_Sig_Par_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Sig_Par.Click
    Oculta_Paneles()
    pan_par2.Visible = True
End Sub
Private Sub PB_atras_par_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_atras_par.Click
    Oculta_Paneles()
    pan_par.Visible = True
End Sub
Private Sub PB_Atras_fv2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Atras_fv2.Click
    Oculta_Paneles()
    pan_fv.Visible = True
End Sub
Private Sub PB_Sig_fv1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_fv1.Click
    Oculta_Paneles()
    pan_fv2.Visible = True
End Sub
Private Sub PB_Atras_Opc12_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PB_Atras_Opc12.Click
    Oculta_Paneles()
    If NP_Opc > 3 Then
        pan_opc_2.Visible = True
    Else
        pan_opc_1.Visible = True
    End If
End Sub
Private Sub PB_Sig_Opc12_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_Opc12.Click
    Oculta_Paneles()
    If NP_Opc > 3 Then
        pan_opc_22.Visible = True
    End If
End Sub

```

```

        End If
    End Sub
    Private Sub PB_atras_opc22_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PB_atras_opc22.Click
        Oculta_Paneles()
        pan_opc_l2.Visible = True
    End Sub
    Private Sub PB_Sig_Par12_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Sig_Par12.Click
        Oculta_Paneles()
        pan_opc_l2.Visible = True
    End Sub
    Private Sub PB_Mod_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Mod.Click
        Dim pos_x As Integer
        pos_x = InStrRev(cmb_eval.SelectedItem, " ")
        ID_Eval_GLOBAL = Mid(cmb_eval.SelectedItem, pos_x + 1, cmb_eval.SelectedItem.Length)
        If ID_Eval_GLOBAL > 0 Then
            Dim MyFrm As frm_admin_eval_chg = New frm_admin_eval_chg
            Me.AddOwnedForm(MyFrm)
            MyFrm.Show()
        End If
    End Sub
End Class

```

13. IMÁGENES

Nombre del Objeto: frm_admin_imgs1

Código:

```

Imports System.IO
Public Class frm_admin_imgs1
    Inherits System.Windows.Forms.Form
    Dim id_tema As Integer
    Dim Default_Img As System.Drawing.Image

```

Windows Form Designer generated code

```

Private Sub frm_admin_imgs1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
    '--- PERMISOS ---
    If PERM_ADD = False Then
        B_Agregar.Visible = False
    End If
    If PERM_DEL = False Then
        B_Eliminar.Visible = False
    End If
    '---
    id_tema = 0
    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT DISTINCT T.id_tema, T.id_unidad, T.nombre_tema, T.orden_tema
" & _
        "FROM temas T, unidad U, usuarios Us WHERE T.id_unidad = U.id_unidad " & _
        "AND U.id_usuario = " & ID_Us_GLOBAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "temas")
        MyCon.Close()
    Catch ex As Exception

```

```

        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Dim i As Integer
    Dim nombre As String
    Dim indice As Integer

    lv_temas.Items.Clear()
    For i = 0 To MyDataSet.Tables("temas").Rows.Count - 1
        nombre = Trim(MyDataSet.Tables("temas").Rows(i).Item("nombre_tema"))
        indice = MyDataSet.Tables("temas").Rows(i).Item("id_tema")
        lv_temas.Items.Add(nombre & SPACIOS & indice, 0)
        'cmb_tema_upd_tema.Items.Add(indice & "-" & nombre)
    Next
    'Cargar_Imgs(id_tema)
    Try
        Default_Img.FromFile(Application.StartupPath & "\defaults\None_Icon.png")
        PB_Img.Image = Default_Img
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Me.Cursor = Windows.Forms.Cursors.Default
End Sub

Private Sub lv_temas_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles lv_temas.SelectedIndexChanged
    If lv_temas.SelectedItems.Count > 0 Then
        Dim myItem As ListViewItem
        'Create an array of strings.
        Dim myItems(lv_temas.SelectedItems.Count - 1) As String
        Dim i As Integer = 0
        'Loop through the SelectedItems collection of the ListView control.

        For Each myItem In lv_temas.SelectedItems
            'Add the Text of the ListViewItem to the array.
            myItems(i) = myItem.Text
            i = i + 1
        Next

        Dim pos As Integer
        Dim id As Integer

        pos = InStrRev(myItems(0), " ")
        id = Mid(myItems(0), pos + 1, myItems(0).Length)

        id_tema = id
        If id > 0 Then
            Cargar_Imgs(id)
        End If
    End If
    PB_Img.Image = Default_Img
End Sub
Private Function Cargar_Imgs(ByVal id As Integer)

    If id > 0 Then
        lv_Imgs.Items.Clear()

        Dim carpetas3 As DirectoryInfo
        Dim MyPath As String
        MyPath = Application.StartupPath() & "\imgs\" & id
        carpetas3 = New DirectoryInfo(MyPath)

        If carpetas3.Exists() Then
            'Existe
            Dim archivos() As FileInfo
            archivos = carpetas3.GetFiles()

```

```

        Dim imagen As FileInfo
        Dim nombre_temp As String
        Dim contador As Integer = 0
        For Each imagen In archivos
            If imagen.Extension.ToLower = ".bmp" Or imagen.Extension.ToLower = ".gif" _
Or imagen.Extension.ToLower = ".jpg" Or imagen.Extension.ToLower = ".jpeg" Then
                lv_Imgs.Items.Add(imagen.Name, 2)
                contador = contador + 1
            End If
        Next
    Else
        'No Existe
        carpetas3.Create()
    End If
End If
End Function

Private Sub lv_Imgs_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles lv_Imgs.SelectedIndexChanged
    Dim MyPath As String = Application.StartupPath & "\imgs\" & id_tema & "\"
    If lv_Imgs.SelectedItems.Count > 0 Then

        Dim myItems(lv_Imgs.SelectedItems.Count - 1) As String
        Dim myItem As ListViewItem

        Dim i As Integer = 0
        'Loop though the SelectedItems collection of the ListView control.
        For Each myItem In lv_Imgs.SelectedItems
            'Add the Text of the ListViewItem to the array.
            myItems(i) = myItem.Text
            i = i + 1
        Next
        MyPath = MyPath & myItems(0)

        Dim MyImage As New Bitmap(MyPath)
        Dim MyThumbNail As Image
        Dim Tama As System.Drawing.Size
        Tama = PB_Img.Size

        MyThumbNail = MyImage.GetThumbnailImage(Tama.Width, Tama.Height, AddressOf
ThumbNailAbort, Nothing)
        PB_Img.Image = MyThumbNail
    Else
        PB_Img.Image = Default_Img
    End If

End Sub
Private Function ThumbNailAbort() As Boolean
    'Do Nothing Here
End Function

Private Sub cmd_exit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles cmd_exit.Click
    Me.Close()
End Sub

Private Sub cmd_del_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles cmd_del.Click
    If lv_Imgs.SelectedItems.Count > 0 Then
        Dim resp
        'resp = MsgBox("¿Realmente desea Elimar este archivo?", MsgBoxStyle.YesNo,
"Elimación de Registros")
        resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
        If resp = 6 Then
            Dim myItem As ListViewItem
            'Create an array of strings.
            Dim myItems(lv_Imgs.SelectedItems.Count - 1) As String
            Dim i As Integer = 0
            'Loop though the SelectedItems collection of the ListView control.

            For Each myItem In lv_Imgs.SelectedItems

```



```

        'Add the Text of the ListViewItem to the array.
        If i = 0 Then
            lv_Imgs.Items(myItem.Index).Remove()
        End If
        myItems(i) = myItem.Text
        i = i + 1
    Next

    PB_Img.Image = Default_Img

    Dim Fich As File
    Dim MyPath As String = Application.StartupPath & "\imgs\" & id_tema & "\"
    MyPath = MyPath & myItems(0)
    Try
        Fich.Delete(MyPath)
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    End Try

End If
End If
End Sub

Private Sub frm_admin_imgs1_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Panel_open = False
End Sub

Private Sub cmd_add_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles cmd_add.Click

    If id_tema > 0 Then
        Dim nombreImg, MyPath As String
        Dim Fich As File
        MyPath = Application.StartupPath & "\imgs\" & id_tema
        OpenFileDialog = New OpenFileDialog
        OpenFileDialog.Filter = "Imágenes JPG (*.jpg)|*.jpg| Mapas de bits (*.bmp)|*.bmp"
        OpenFileDialog.Title = "Archivos de Imágenes"

        If OpenFileDialog.ShowDialog() = DialogResult.OK Then
            Dim pos As Integer
            pos = InStrRev(OpenFileDialog.FileName, "\")
            nombreImg = Mid(OpenFileDialog.FileName, pos + 1, OpenFileDialog.FileName.Length)

            Fich.Copy(nombreImg, MyPath & "\" & nombreImg)
            Cargar_Imgs(id_tema)
        End If
    End If

End Sub

Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click
    OpenFileDialog.Multiselect = False
    If id_tema > 0 Then
        Dim nombreImg, MyPath, ext As String
        Dim Fich As File
        MyPath = Application.StartupPath & "\imgs\" & id_tema
        OpenFileDialog = New OpenFileDialog
        OpenFileDialog.Filter = "Todos los archivos de Imágenes
(*.jpg;*.jpeg;*.gif;*.bmp;*.png)|*.jpg;*.jpeg;*.gif;*.bmp;*.png"
        OpenFileDialog.Title = "Archivos de Imágenes"

        If OpenFileDialog.ShowDialog() = DialogResult.OK Then
            Dim pos As Integer
            pos = InStrRev(OpenFileDialog.FileName, "\")
            nombreImg = Mid(OpenFileDialog.FileName, pos + 1, OpenFileDialog.FileName.Length)
            pos = InStrRev(OpenFileDialog.FileName, ".")
            ext = Mid(OpenFileDialog.FileName, pos + 1, OpenFileDialog.FileName.Length)
            ext = ext.ToLower
        End If
    End If
End Sub

```

```

Then
    If ext = "jpeg" Or ext = "jpg" Or ext = "gif" Or ext = "bmp" Or ext = "png"
        Fich.Copy(nombreImg, MyPath & "\" & nombreImg)
        Cargar_Imgs(id_tema)
    Else
        MsgBox("El archivo: " & vbCrLf & OpenFileDialog.FileName & " no es uno de los
formatos de imagenes admitidos ", MsgBoxStyle.Exclamation, "EduCienSys")
    End If
End If
Else
    MsgBox("Debe seleccionar un tema primero", MsgBoxStyle.Information, "EduCienSys")
End If

End Sub

Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
    If lv_Imgs.SelectedItems.Count > 0 Then
        Dim resp
        'resp = MsgBox("¿Realmente desea Eliminar este archivo?", MsgBoxStyle.Question,
"Elimación de Registros")
        resp = MessageBox.Show("¿Realmente desea Eliminar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
        If resp = 6 Then
            Dim myItem As ListViewItem
            'Create an array of strings.
            Dim myItems(lv_Imgs.SelectedItems.Count - 1) As String
            Dim i As Integer = 0
            'Loop though the SelectedItems collection of the ListView control.

            For Each myItem In lv_Imgs.SelectedItems
                'Add the Text of the ListViewItem to the array.
                If i = 0 Then
                    lv_Imgs.Items(myItem.Index).Remove()
                End If
                myItems(i) = myItem.Text
                i = i + 1
            Next

            PB_Img.Image = Default_Img

            Dim Fich As File
            Dim MyPath As String = Application.StartupPath & "\imgs\" & id_tema & "\"
            MyPath = MyPath & myItems(0)
            Try
                Fich.Delete(MyPath)
            Catch ex As Exception
                MessageBox.Show("Se ha producido la siguiente excepción:" _
                    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            End Try

        End If
    Else
        MsgBox("No se ha seleccionado ninguna imagen", MsgBoxStyle.Exclamation, "Elimación
de Registros")
    End If
End Sub

Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Me.Close()
End Sub
End Class

```

14. VIDEO Y SONIDO

Nombre del Objeto: frm_admin_videos0

Código:

```
Imports System.IO
Public Class frm_admin_videos0
    Inherits System.Windows.Forms.Form
    Dim id_temas As Integer
```

Windows Form Designer generated code

```
Private Sub frm_admin_videos0_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    '-- PERMISOS --
    If PERM_ADD = False Then
        B_Agregar.Visible = False
    End If
    If PERM_UPD = False Then
        B_Actualizar.Visible = False
    End If
    If PERM_DEL = False Then
        B_Eliminar.Visible = False
    End If
    '-- --- --- --- ---
    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    chk_multi.Items.Clear()

    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT DISTINCT T.id_tema, T.id_unidad, T.nombre_tema, T.orden_tema
" & _
        "FROM temas T, unidad U, usuarios Us WHERE T.id_unidad = U.id_unidad " & _
        "AND U.id_usuario = " & ID_Us_GLOBAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "temas")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" & _
            + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Dim i As Integer
    Dim nombre As String
    Dim indice As Integer

    LV_Temas.Items.Clear()
    For i = 0 To MyDataSet.Tables("temas").Rows.Count - 1
        nombre = Trim(MyDataSet.Tables("temas").Rows(i).Item("nombre_tema"))
        indice = MyDataSet.Tables("temas").Rows(i).Item("id_tema")
        LV_Temas.Items.Add(nombre & SPACIOS & indice, 0)
        'cmb_tema_upd_tema.Items.Add(indice & "-" & nombre)
    Next
    'Cargar_Imgs(id_tema)
    id_temas = 0
    Me.Cursor = Windows.Forms.Cursors.Default

End Sub

Private Sub LV_Temas_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles LV_Temas.SelectedIndexChanged
    If LV_Temas.SelectedItems.Count > 0 Then
        Dim myItem As ListViewItem
        'Create an array of strings.
        Dim myItems(LV_Temas.SelectedItems.Count - 1) As String
        Dim i As Integer = 0
        'Loop though the SelectedItems collection of the ListView control.

        For Each myItem In LV_Temas.SelectedItems
```

```

        'Add the Text of the ListViewItem to the array.
        myItems(i) = myItem.Text
        i = i + 1
    Next

    Dim pos As Integer
    Dim id As Integer

    pos = InStrRev(myItems(0), " ")
    id = Mid(myItems(0), pos + 1, myItems(0).Length)

    id_temas = id
    If id > 0 Then
        Cargar_Multimedia(id)
    End If
Else
    chk_multi.Items.Clear()
    txtpalabra.Text = ""
    id_temas = 0
End If
End Sub
Private Function Cargar_Multimedia(ByVal id As Integer)
    If id > 0 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM rec_videos WHERE id_tema=" & id
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "videos")
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return 0
        End Try

        chk_multi.Items.Clear()
        txtpalabra.Text = ""
        txt_titulo.Text = ""

        Dim carpetas3 As DirectoryInfo
        Dim MyPath As String
        MyPath = Application.StartupPath() & "\multimedia\" & id
        carpetas3 = New DirectoryInfo(MyPath)

        If MyDataSet.Tables("videos").Rows.Count > 0 Then
            Dim i As Integer
            Dim recurso As String
            Dim autor As String
            Dim Titulo_Rec As String

            If carpetas3.Exists() Then
                'Existe
                Dim archivos() As FileInfo
                archivos = carpetas3.GetFiles()
                Dim imagen As FileInfo
                Dim nombre_temp As String
                Dim contador As Integer = 0
                Dim Ya_Paso As Boolean
                Ya_Paso = False

                For Each imagen In archivos
                    nombre_temp = MyPath & "\" & imagen.Name

                    If imagen.Extension.ToLower = ".avi" Or imagen.Extension.ToLower =
".mpeg" _

```

```

Or imagen.Extension.ToLower = ".mpg" Then
Ya_Paso = False
For i = 0 To MyDataSet.Tables("videos").Rows.Count - 1
If MyDataSet.Tables("videos").Rows(i).Item("nombre_archivo") Is
System.DBNull.Value Then
recurso = ""
Else
recurso =
Trim(MyDataSet.Tables("videos").Rows(i).Item("nombre_archivo"))
End If
If MyDataSet.Tables("videos").Rows(i).Item("fuente") Is
System.DBNull.Value Then
autor = ""
Else
autor =
Trim(MyDataSet.Tables("videos").Rows(i).Item("fuente"))
End If
If MyDataSet.Tables("videos").Rows(i).Item("titulo") Is
System.DBNull.Value Then
Titulo_Rec = ""
Else
Titulo_Rec =
Trim(MyDataSet.Tables("videos").Rows(i).Item("titulo"))
End If

If imagen.Name = recurso Then
chk_multi.Items.Add("", 1)
chk_multi.Items.Item(contador).SubItems.Add(recurso)
chk_multi.Items.Item(contador).SubItems.Add(autor)
chk_multi.Items.Item(contador).SubItems.Add(Titulo_Rec)
Ya_Paso = True
contador += 1
End If
Next
If Not Ya_Paso Then
chk_multi.Items.Add("", 1)
chk_multi.Items.Item(contador).SubItems.Add(imagen.Name)
chk_multi.Items.Item(contador).SubItems.Add("")
chk_multi.Items.Item(contador).SubItems.Add("")
contador += 1
End If
End If

If imagen.Extension.ToLower = ".wav" Or imagen.Extension.ToLower =
".mp3" _
Or imagen.Extension.ToLower = ".midi" Then
Ya_Paso = False
For i = 0 To MyDataSet.Tables("videos").Rows.Count - 1
recurso =
Trim(MyDataSet.Tables("videos").Rows(i).Item("nombre_archivo"))
autor = Trim(MyDataSet.Tables("videos").Rows(i).Item("fuente"))
Titulo_Rec =
Trim(MyDataSet.Tables("videos").Rows(i).Item("titulo"))
If imagen.Name = recurso Then
chk_multi.Items.Add("", 2)
chk_multi.Items.Item(contador).SubItems.Add(recurso)
chk_multi.Items.Item(contador).SubItems.Add(autor)
chk_multi.Items.Item(contador).SubItems.Add(Titulo_Rec)
Ya_Paso = True
contador += 1
End If
Next
If Not Ya_Paso Then
chk_multi.Items.Add("", 2)
chk_multi.Items.Item(contador).SubItems.Add(imagen.Name)
chk_multi.Items.Item(contador).SubItems.Add("")
chk_multi.Items.Item(contador).SubItems.Add("")
contador += 1
End If
End If
End If
'45--
Next
Else

```

```

        If Not carpetas3.Exists() Then
            'No Existe
            carpetas3.Create()
        End If
    End If

Else
    If carpetas3.Exists() Then
        'Existe
        Dim archivos() As FileInfo
        archivos = carpetas3.GetFiles()
        Dim imagen As FileInfo
        Dim nombre_temp As String
        Dim contador As Integer = 0

        For Each imagen In archivos
            nombre_temp = MyPath & "\" & imagen.Name

            If imagen.Extension.ToLower = ".avi" Or imagen.Extension.ToLower =
".mpeg" _
            Or imagen.Extension.ToLower = ".mpg" Then
                chk_multi.Items.Add("", 1)
                chk_multi.Items.Item(contador).SubItems.Add(imagen.Name)
                chk_multi.Items.Item(contador).SubItems.Add("")
                chk_multi.Items.Item(contador).SubItems.Add("")
                contador += 1
            End If

            If imagen.Extension.ToLower = ".wav" Or imagen.Extension.ToLower =
".mp3" _
            Or imagen.Extension.ToLower = ".midi" Then
                chk_multi.Items.Add("", 2)
                chk_multi.Items.Item(contador).SubItems.Add(imagen.Name)
                chk_multi.Items.Item(contador).SubItems.Add("")
                chk_multi.Items.Item(contador).SubItems.Add("")
                contador += 1
            End If

        Next
    Else
        carpetas3.Create()
    End If
End If
Me.Cursor = Windows.Forms.Cursors.Default
End If

End Function
Private Sub chk_multi_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_multi.SelectedIndexChanged
    If chk_multi.SelectedItems.Count > 0 And id_temas > 0 Then
        Dim MyPath, recurso, autor, titulo As String
        MyPath = Application.StartupPath & "\multimedia\" & id_temas & "\"

        recurso = chk_multi.SelectedItems.Item(0).SubItems(1).Text
        autor = chk_multi.SelectedItems.Item(0).SubItems(2).Text
        titulo = chk_multi.SelectedItems.Item(0).SubItems(3).Text

        MyPath = MyPath & recurso
        txtpalabra.Text = autor
        txt_titulo.Text = titulo
        wmpplayer.URL = MyPath
        'wmpplayer.playState =
    End If
End Sub
Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click
    If id_temas > 0 Then
        OpenFileDialog.Multiselect = False
        Dim Nombre_Arch, MyPath, ext As String
        Dim Fich As File
        MyPath = Application.StartupPath & "\multimedia\" & id_temas
        OpenFileDialog = New OpenFileDialog
    End If
End Sub

```

```

        OpenFileDialog.Filter = "Archivos de Audio y Video
(*.avi;*.mpeg;*.mpg;*.midi;*.wav;*.mp3)|*.avi;*.mpeg;*.mpg;*.midi;*.wav;*.mp3"
        'OpenFile.Filter = "Formato de Windows (*.avi)|*.avi|Compresion mpeg
(*.mpeg)|*.mpeg"
        'OpenFile.Filter += "|Compresion mpeg (*.mpg)|*.mpg|Formato Midi
(*.midi)|*.midi|Formato Wav (*.wav)|*.wav"
        'OpenFile.Filter += "|Compresion mpeg (*.wav)|*.wav"
        OpenFileDialog.Title = "Archivos multimedia"

    If OpenFileDialog.ShowDialog() = DialogResult.OK Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim pos As Integer
        pos = InStrRev(OpenFileDialog.FileName, "\")
        Nombre_Arch = Mid(OpenFileDialog.FileName, pos + 1, OpenFileDialog.FileName.Length)
        pos = InStrRev(OpenFileDialog.FileName, ".")
        ext = Mid(OpenFileDialog.FileName, pos + 1, OpenFileDialog.FileName.Length).ToLower

        If ext = "avi" Or ext = "mpeg" Or ext = "mpg" Or ext = "midi" Or ext = "wav" Or
ext = "mp3" Then
            Fich.Copy(Nombre_Arch, MyPath & "\" & Nombre_Arch)
            Insertar_Recurso(id_temas, Nombre_Arch)
            Cargar_Multimedia(id_temas)
        Else
            MsgBox("El archivo: " & vbCrLf & OpenFileDialog.FileName & " no es uno de los
formatos admitidos ", MsgBoxStyle.Exclamation, "EduCienSys")
            End If

            Me.Cursor = Windows.Forms.Cursors.Default
        End If
    Else
        MsgBox("No se ha seleccionado ningun tema", MsgBoxStyle.Exclamation, "EduCienSys")
    End If
End Sub
Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
    If id_temas > 0 And chk_multi.SelectedItems.Count > 0 Then
        Dim resp As String

        'resp = MsgBox("¿Realmente desea eliminar este archivo?", MsgBoxStyle.Question,
"Elimación de Registros")
        resp = MessageBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
        If resp = 6 Then
            Me.Cursor = Windows.Forms.Cursors.WaitCursor

            Dim Fich As File
            Dim MyPath As String = Application.StartupPath & "\multimedia\" & id_temas &
"\\"

            MyPath = MyPath & chk_multi.SelectedItems(0).SubItems(1).Text
            Try
                Fich.Delete(MyPath)
                If Eliminar_Recurso(id_temas, chk_multi.SelectedItems(0).SubItems(1).Text)
Then
                    chk_multi.Items(chk_multi.SelectedItems(0).Index).Remove()
                End If
            Catch ex As Exception
                Me.Cursor = Windows.Forms.Cursors.Default
                MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            End Try
            txtpalabra.Text = ""
            txt_titulo.Text = ""

            Me.Cursor = Windows.Forms.Cursors.Default
        End If
    Else
        MsgBox("No se ha seleccionado ningún recurso", MsgBoxStyle.Exclamation,
"EduCienSys")
    End If
End Sub
Private Function Insertar_Recurso(ByVal tema As Integer, ByVal N_Rec As String)

```

```

        With Adapter.InsertCommand
            .Connection = MyCon
            .CommandText = "INSERT INTO rec_videos (id_tema, nombre_archivo, fuente, titulo)
VALUES (" & tema & ", '" & N_Rec & "', '" & F_Rec & "', '" & T_Rec & "'"
        End With

    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return False
    End Try

End Function

Private Function Eliminar_Recurso(ByVal tema As Integer, ByVal N_Rec As String)

    With Adapter.DeleteCommand
        .CommandText = "DELETE FROM rec_videos WHERE id_tema=" & tema & " AND
nombre_archivo='" & N_Rec & "'"
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return False
    End Try
    Return True
End Function

Private Sub B_Actualizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Actualizar.Click
    If id_temas > 0 And chk_multi.SelectedItems.Count > 0 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        Dim N_Rec, T_Rec, F_Rec As String

        N_Rec = chk_multi.SelectedItems.Item(0).SubItems(1).Text
        T_Rec = Trim(txt_titulo.Text)
        F_Rec = Trim(txtpalabra.Text)
        chk_multi.SelectedItems.Item(0).SubItems(2).Text = Trim(txtpalabra.Text)
        chk_multi.SelectedItems.Item(0).SubItems(3).Text = Trim(txt_titulo.Text)

        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM rec_videos WHERE id_tema=" & id_temas & " AND
nombre_archivo='" & N_Rec & "'"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        With Adapter.InsertCommand
            .Connection = MyCon
            .CommandText = "INSERT INTO rec_videos (id_tema, nombre_archivo, fuente,
titulo) VALUES (" & id_temas & ", '" & N_Rec & "', '" & F_Rec & "', '" & T_Rec & "'"
        End With
    End If
End Sub

```



```

    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" & _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try
    Me.Cursor = Windows.Forms.Cursors.Default
Else
    MsgBox("No se ha seleccionado ningún recurso", MsgBoxStyle.Exclamation,
"EduCienSys")
End If
End Sub
Private Sub PictureBox1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox1.Click
    Me.Close()
End Sub
Private Sub frm_admin_videos0_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Panel_open = False
End Sub
End Class

```

15. ANIMACIÓN FLASH

Nombre del Objeto: frm_admi_flash

Código:

```

Imports System.IO
Public Class frm_admin_flash
    Inherits System.Windows.Forms.Form
    Dim id_temas As Integer

```

Windows Form Designer generated code

```

Private Sub frm_admin_flash_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
    chk_multi.Items.Clear()
    '--- PERMISOS ---
    If PERM_ADD = False Then
        B_Agregar.Visible = False
    End If
    If PERM_UPD = False Then
        B_Actualizar.Visible = False
    End If
    If PERM_DEL = False Then
        B_Eliminar.Visible = False
    End If

    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT DISTINCT T.id_tema, T.id_unidad, T.nombre_tema, T.orden_tema
" & _
        "FROM temas T, unidad U, usuarios Us WHERE T.id_unidad = U.id_unidad " & _
        "AND U.id_usuario = " & ID_Us_GLOBAL
        .Connection = MyCon
    End With

    Try

```

```

        MyCon.Open()
        Adapter.Fill(MyDataSet, "temas")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Dim i As Integer
    Dim nombre As String
    Dim indice As Integer

    LV_Temas.Items.Clear()
    For i = 0 To MyDataSet.Tables("temas").Rows.Count - 1
        nombre = Trim(MyDataSet.Tables("temas").Rows(i).Item("nombre_tema"))
        indice = MyDataSet.Tables("temas").Rows(i).Item("id_tema")
        LV_Temas.Items.Add(indice & "-" & nombre, 0)
        'cmb_tema_upd_tema.Items.Add(indice & "-" & nombre)
    Next
    'Cargar_Imgs(id_tema)
    id_temas = 0
    Dim j As System.Drawing.Size
    j.Width = 280
    j.Height = 184

    ShockwaveFlash1.Size = j

    Me.Cursor = Windows.Forms.Cursors.Default
End Sub
Private Sub LV_Temas_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles LV_Temas.SelectedIndexChanged
    If LV_Temas.SelectedItems.Count > 0 Then
        Dim myItem As ListViewItem
        'Create an array of strings.
        Dim myItems(LV_Temas.SelectedItems.Count - 1) As String
        Dim i As Integer = 0
        'Loop though the SelectedItems collection of the ListView control.

        For Each myItem In LV_Temas.SelectedItems
            'Add the Text of the ListViewItem to the array.
            myItems(i) = myItem.Text
            i = i + 1
        Next

        Dim pos As Integer
        Dim id As Integer

        pos = InStr(myItems(0), "-")
        id = Mid(myItems(0), 1, pos - 1)
        id_temas = id
        If id > 0 Then
            Cargar_Flash_2(id)
        End If
    Else
        id_temas = 0
    End If
End Sub
Private Sub frm_admin_flash_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Panel_open = False
End Sub
Private Sub B_Agregar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Agregar.Click
    'OpenFile.Multiselect = False
    'If id_temas > 0 Then
    '    Dim Nombre_Arch, MyPath, ext As String
    '    Dim Fich As File
    '    MyPath = Application.StartupPath & "\multimedia\flash\" & id_temas
    '    OpenFile = New OpenFileDialog
    '    OpenFile.Filter = "Archivos SWF (*.swf)|*.swf"

```

```

'   OpenFile.Title = "Archivos contenido flash"

'   If OpenFile.ShowDialog() = DialogResult.OK Then
'       Me.Cursor = Windows.Forms.Cursors.WaitCursor

'       Dim pos As Integer
'       pos = InStrRev(OpenFile.FileName, "\")
'       Nombre_Arch = Mid(OpenFile.FileName, pos + 1, OpenFile.FileName.Length)
'       pos = InStrRev(OpenFile.FileName, ".")
'       ext = Mid(OpenFile.FileName, pos + 1, OpenFile.FileName.Length)
'       ext = ext.ToLower
'       If ext = "swf" Then
'           Fich.Copy(Nombre_Arch, MyPath & "\" & Nombre_Arch)
'           Cargar_Flash(id_temas)
'           Cargar_Flash_2(id_temas)
'       Else
'           MsgBox("El archivo: " & vbCrLf & OpenFile.FileName & " no es uno de los
formatos admitidos ", MsgBoxStyle.Exclamation, "EduCienSys")
'       End If

'       Me.Cursor = Windows.Forms.Cursors.Default
'   End If
Else
'   MsgBox("Debe seleccionar un tema primero", MsgBoxStyle.OKOnly, "EduCienSys")
End If

If id_temas > 0 Then
    OpenFile.Multiselect = False
    Dim Nombre_Arch, MyPath, ext As String
    Dim Fich As File
    MyPath = Application.StartupPath & "\multimedia\flash\" & id_temas
    OpenFile = New OpenFileDialog
    OpenFile.Filter = "Archivos SWF (*.swf)|*.swf"
    OpenFile.Title = "Archivos contenido flash"

    If OpenFile.ShowDialog() = DialogResult.OK Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim pos As Integer
        pos = InStrRev(OpenFile.FileName, "\")
        Nombre_Arch = Mid(OpenFile.FileName, pos + 1, OpenFile.FileName.Length)
        pos = InStrRev(OpenFile.FileName, ".")
        ext = Mid(OpenFile.FileName, pos + 1, OpenFile.FileName.Length).ToLower

        If ext = "swf" Then
            Fich.Copy(Nombre_Arch, MyPath & "\" & Nombre_Arch)
            Insertar_Recurso(id_temas, Nombre_Arch)
            Cargar_Flash_2(id_temas)
        Else
            MsgBox("El archivo: " & vbCrLf & OpenFile.FileName & " no es uno de los
formatos admitidos ", MsgBoxStyle.Exclamation, "EduCienSys")
        End If

        Me.Cursor = Windows.Forms.Cursors.Default
    End If
Else
    MsgBox("No se ha seleccionado ningun tema", MsgBoxStyle.Exclamation, "EduCienSys")
End If

End Sub
Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Me.Close()
End Sub
Private Sub B_Eliminar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Eliminar.Click
    'If LV_Multi.SelectedItems.Count > 0 Then
    '    Dim resp
    '    resp = MsgBox("¿Realmente desea Elimar este archivo?", MsgBoxStyle.YesNo,
"Elimación de Registros")

    '    If resp = 6 Then
    '        Me.Cursor = Windows.Forms.Cursors.WaitCursor

```

```

'      Dim myItem As ListViewItem
'      'Create an array of strings.
'      Dim myItems(LV_Multi.SelectedItems.Count - 1) As String
'      Dim i As Integer = 0
'      'Loop though the SelectedItems collection of the ListView control.

'      For Each myItem In LV_Multi.SelectedItems
'          'Add the Text of the ListViewItem to the array.

'          If i = 0 Then
'              LV_Multi.Items(myItem.Index).Remove()
'          End If
'          myItems(i) = myItem.Text
'          i = i + 1
'      Next

'      Dim Fich As File
'      Dim MyPath As String = Application.StartupPath & "\multimedia\flash\" &
id_temas & "\"
'      MyPath = MyPath & myItems(0)
'      Try
'          Fich.Delete(MyPath)
'      Catch ex As Exception
'          Me.Cursor = Windows.Forms.Cursors.Default
'          MessageBox.Show("Se ha producido la siguiente excepción:" _
'              + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
'      End Try

'      Me.Cursor = Windows.Forms.Cursors.Default
'      End If

'End If

If id_temas > 0 And chk_multi.SelectedItems.Count > 0 Then
    Dim resp As String

    'resp = MsgBox("¿Realmente desea eliminar este archivo?", MsgBoxStyle.Question,
"Elimación de Registros")
    resp = MsgBox.Show("¿Realmente desea Elimar este registro?", "Elimación de
Registros", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
    If resp = 6 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim Fich As File
        Dim MyPath As String = Application.StartupPath & "\multimedia\flash\" &
id_temas & "\"
        MyPath = MyPath & chk_multi.SelectedItems(0).SubItems(1).Text
        Try
            Fich.Delete(MyPath)
            If Eliminar_Recurso(id_temas, chk_multi.SelectedItems(0).SubItems(1).Text)
Then
                chk_multi.Items(chk_multi.SelectedItems(0).Index).Remove()
            End If
        Catch ex As Exception
            Me.Cursor = Windows.Forms.Cursors.Default
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        End Try
        txtpalabra.Text = ""
        txt_titulo.Text = ""
        Me.Cursor = Windows.Forms.Cursors.Default
    End If
Else
    MsgBox("No se ha seleccionado ningún recurso", MsgBoxStyle.Exclamation,
"EduCienSys")
End If
End Sub
Private Function Cargar_Flash_2(ByVal ID As Integer)
    If ID > 0 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor

        Dim MyDataSet As New DataSet
    
```

```

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM rec_animaciones WHERE id_tema=" & ID
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "anim")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return 0
End Try

chk_multi.Items.Clear()
txtpalabra.Text = ""
txt_titulo.Text = ""

Dim carpetas3 As DirectoryInfo
Dim MyPath As String
MyPath = Application.StartupPath() & "\multimedia\flash\" & ID
carpetas3 = New DirectoryInfo(MyPath)

If MyDataSet.Tables("anim").Rows.Count > 0 Then
    Dim i As Integer
    Dim recurso As String
    Dim autor As String
    Dim Titulo_Rec As String

    If carpetas3.Exists() Then
        'Existe
        Dim archivos() As FileInfo
        archivos = carpetas3.GetFiles()
        Dim imagen As FileInfo
        Dim nombre_temp As String
        Dim contador As Integer = 0
        Dim Ya_Paso As Boolean
        Ya_Paso = False

        For Each imagen In archivos
            nombre_temp = MyPath & "\" & imagen.Name

            If imagen.Extension.ToLower = ".swf" Then
                Ya_Paso = False
                For i = 0 To MyDataSet.Tables("anim").Rows.Count - 1
                    recurso =
Trim(MyDataSet.Tables("anim").Rows(i).Item("nombre_archivo"))
                    autor = Trim(MyDataSet.Tables("anim").Rows(i).Item("fuente"))
                    Titulo_Rec =
Trim(MyDataSet.Tables("anim").Rows(i).Item("titulo"))
                    If imagen.Name = recurso Then
                        chk_multi.Items.Add("", 2)
                        chk_multi.Items.Item(contador).SubItems.Add(recurso)
                        chk_multi.Items.Item(contador).SubItems.Add(autor)
                        chk_multi.Items.Item(contador).SubItems.Add(Titulo_Rec)
                        Ya_Paso = True
                        contador += 1
                    End If
                Next
                If Not Ya_Paso Then
                    chk_multi.Items.Add("", 2)
                    chk_multi.Items.Item(contador).SubItems.Add(imagen.Name)
                    chk_multi.Items.Item(contador).SubItems.Add("")
                    chk_multi.Items.Item(contador).SubItems.Add("")
                    contador += 1
                End If
            End If
        Next
        '45--
    Else
        If Not carpetas3.Exists() Then

```

```

        'No Existe
        carpetas3.Create()
    End If
End If

Else
    If carpetas3.Exists() Then
        'Existe
        Dim archivos() As FileInfo
        archivos = carpetas3.GetFiles()
        Dim imagen As FileInfo
        Dim nombre_temp As String
        Dim contador As Integer = 0

        For Each imagen In archivos
            nombre_temp = MyPath & "\" & imagen.Name

            If imagen.Extension.ToLower = ".swf" Then
                chk_multi.Items.Add("", 2)
                chk_multi.Items.Item(contador).SubItems.Add(imagen.Name)
                chk_multi.Items.Item(contador).SubItems.Add("")
                chk_multi.Items.Item(contador).SubItems.Add("")
                contador += 1
            End If
        Next
    Else
        carpetas3.Create()
    End If
End If
Me.Cursor = Windows.Forms.Cursors.Default
End If
End Function
Private Sub chk_multi_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles chk_multi.SelectedIndexChanged
    If chk_multi.SelectedItems.Count > 0 And id_temas > 0 Then
        Dim MyPath, recurso, autor, titulo As String
        MyPath = Application.StartupPath & "\multimedia\flash\" & id_temas & "\"

        recurso = chk_multi.SelectedItems.Item(0).SubItems(1).Text
        autor = chk_multi.SelectedItems.Item(0).SubItems(2).Text
        titulo = chk_multi.SelectedItems.Item(0).SubItems(3).Text

        MyPath = MyPath & recurso
        txtpalabra.Text = autor
        txt_titulo.Text = titulo
        ShockwaveFlash1.Movie = MyPath
    End If
End Sub
Private Function Insertar_Recurso(ByVal tema As Integer, ByVal N_Rec As String)

    With Adapter.InsertCommand
        .Connection = MyCon
        .CommandText = "INSERT INTO rec_animaciones (id_tema, nombre_archivo, fuente,
titulo) VALUES (" & tema & ",'" & N_Rec & "', '" & "'')'"
    End With

    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteReader()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return False
    End Try

End Function
Private Function Eliminar_Recurso(ByVal tema As Integer, ByVal N_Rec As String)

    With Adapter.DeleteCommand

```

```

        .CommandText = "DELETE FROM rec_animaciones WHERE id_tema=" & tema & " AND
nombre_archivo='" & N_Rec & "'"
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.DeleteCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return False
    End Try
    Return True
End Function
Private Sub B_Actualizar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Actualizar.Click
    If id_temas > 0 And chk_multi.SelectedItems.Count > 0 Then
        Me.Cursor = Windows.Forms.Cursors.WaitCursor
        Dim N_Rec, T_Rec, F_Rec As String

        N_Rec = chk_multi.SelectedItems.Item(0).SubItems(1).Text
        T_Rec = Trim(txt_titulo.Text)
        F_Rec = Trim(txtpalabra.Text)
        chk_multi.SelectedItems.Item(0).SubItems(2).Text = Trim(txtpalabra.Text)
        chk_multi.SelectedItems.Item(0).SubItems(3).Text = Trim(txt_titulo.Text)

        With Adapter.DeleteCommand
            .CommandText = "DELETE FROM rec_animaciones WHERE id_tema=" & id_temas & " AND
nombre_archivo='" & N_Rec & "'"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.DeleteCommand.ExecuteNonQuery()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try

        With Adapter.InsertCommand
            .Connection = MyCon
            .CommandText = "INSERT INTO rec_animaciones (id_tema, nombre_archivo, fuente,
titulo) VALUES (" & id_temas & ",'" & N_Rec & "', '" & F_Rec & "', '" & T_Rec & "'"
        End With

        Try
            MyCon.Open()
            Adapter.InsertCommand.ExecuteReader()
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return
        End Try
        Me.Cursor = Windows.Forms.Cursors.Default
    Else
        MsgBox("No se ha seleccionado ningún recurso", MsgBoxStyle.Exclamation,
"EduCienSys")
    End If
End Sub
End Class

```

16. SELECCIÓN DE UNIDADES

Nombre del Objeto: frm_app_unidad

Código:

```
Dim Pos_Ant As System.Drawing.Point

Private Sub frm_app_panel_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    lbl_us.Text = "Usuario: " & ID_Nombre_Us_GLOBAL
    ID_Unidad_GLOBAL = 0

    Cargar_Unidades_Normales()
    Cargar_Otras_Unidades()

    Me.AxShockwaveFlash1.Movie = Application.StartupPath &
"\defaults\viento.swf"
    Me.AxShockwaveFlash1.Refresh()
    'Me.AxShockwaveFlash1.Playing = True
End Sub

Private Sub btn_cerrar_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_cerrar.Click
    End
End Sub

Private Sub PictureBox1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PictureBox1.Click
    ID_Unidad_GLOBAL = Uni_1
    Dim j As New frm_app_temas
    Me.Dispose(True)
    j.Show()
End Sub

Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PictureBox2.Click
    ID_Unidad_GLOBAL = Uni_2
    Dim j As New frm_app_temas
    Me.Dispose(True)
    j.Show()
End Sub

Private Sub PictureBox3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PictureBox3.Click
    ID_Unidad_GLOBAL = Uni_3
    Dim j As New frm_app_temas
    Me.Dispose(True)
    j.Show()
End Sub

Private Function Cargar_Otras_Unidades()
    cmb_otra_u.Items.Clear()
    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM unidad WHERE id_unidad > " & Uni_3
    End With
    MyDataSet.Tables.Add(Adapter.Fill(MyDataSet, Adapter.SelectCommand))
    cmb_otra_u.DataSource = MyDataSet.Tables(0)
    cmb_otra_u.DisplayMember = "Nombre"
    cmb_otra_u.ValueMember = "id_unidad"
    cmb_otra_u.SelectedIndex = 0
End Function
```



```

        " AND id_usuario=" & ID_Prof_GLOBAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "unidad")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Me.Close()
    End Try
    If MyDataSet.Tables("unidad").Rows.Count > 0 Then
        Dim i As Integer
        Dim id As Integer
        Dim nombre As String

        For i = 0 To MyDataSet.Tables("unidad").Rows.Count - 1
            id = MyDataSet.Tables("unidad").Rows(i).Item("id_unidad")
            nombre =
Trim(MyDataSet.Tables("unidad").Rows(i).Item("nombre_unidad"))
            cmb_otra_u.Items.Add(id & "-" & nombre)
        Next
        cmb_otra_u.SelectedIndex = 0
    Else
        cmb_otra_u.Visible = False
        B_OtraUnidad.Visible = False
    End If

    End Function
    Private Sub B_OtraUnidad_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles B_OtraUnidad.Click
        If cmb_otra_u.Items.Count > 0 Then
            Dim pos_x As Integer
            Dim id_x As String
            pos_x = InStr(cmb_otra_u.SelectedItem, "-")
            ID_Unidad_GLOBAL = Mid(cmb_otra_u.SelectedItem, 1, pos_x - 1)
            Dim j As New frm_app_temas
            Me.Dispose(True)
            j.Show()
        Else
            MsgBox("No hay Unidades adicionales", MsgBoxStyle.Exclamation,
"EduCienSis")
        End If
    End Sub
    Private Function Cargar_Unidades_Normales()

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM unidad WHERE id_usuario = " &
ID_Prof_GLOBAL
            .Connection = MyCon
        End With

        Try

```

```

        MyCon.Open()
        Adapter.Fill(MyDataSet, "unidad")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Me.Close()
    End Try
    If MyDataSet.Tables("unidad").Rows.Count > 0 Then
        Uni_1 = MyDataSet.Tables("unidad").Rows(0).Item("id_unidad")
        Uni_2 = MyDataSet.Tables("unidad").Rows(1).Item("id_unidad")
        Uni_3 = MyDataSet.Tables("unidad").Rows(2).Item("id_unidad")
    End If
End Function
End Class

```

17. SELECCIÓN DE TEMAS

Nombre del Objeto: frm_app_temas

Código:

```

Public Class frm_app_temas
    Inherits System.Windows.Forms.Form

```

Windows Form Designer generated code

```

        Dim Pos_Ant As System.Drawing.Point
        Private Sub frm_app_temas_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
'-----
        If ID_Unidad_GLOBAL = 2 Then
            PictureBox1.Image = Image.FromFile(Application.StartupPath &
"\defaults\FlechaU2.png")
        End If

        If ID_Unidad_GLOBAL = 3 Then
            PictureBox1.Image = Image.FromFile(Application.StartupPath &
"\defaults\FlechaU3.png")
        End If
'-----

        ID_Tema_GLOBAL = 0

        Dim MyDataSet As New DataSet

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM unidad WHERE id_unidad=" & ID_Unidad_GLOBAL
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "unidad")
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Me.Close()
        End Try

        lblnombre.Text = Trim(MyDataSet.Tables("unidad").Rows(0).Item("nombre_unidad"))

```

```

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM temas WHERE id_unidad=" & ID_Unidad_GLOBAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "temas")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Me.Close()
End Try

Dim i As Integer
Dim nombre As String
Dim indice As Integer

If MyDataSet.Tables("temas").Rows.Count = 0 Then
    MsgBox("No hay temas definidos para esta unidad", MsgBoxStyle.Exclamation,
"EduCienSis")
End If

lv_temas.Items.Clear()
For i = 0 To MyDataSet.Tables("temas").Rows.Count - 1
    nombre = Trim(MyDataSet.Tables("temas").Rows(i).Item("nombre_tema"))
    indice = MyDataSet.Tables("temas").Rows(i).Item("id_tema")
    lv_temas.Items.Add(indice & "-" & nombre, 0)
    'cmb_tema_upd_tema.Items.Add(indice & "-" & nombre)
Next
lv_temas.Refresh()
End Sub
Private Sub cmd_salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles cmd_salir.Click
    Me.Close()
End Sub
Private Sub lv_temas_DoubleClick(ByVal sender As Object, ByVal e As System.EventArgs)
Handles lv_temas.DoubleClick
    If lv_temas.SelectedItems.Count > 0 Then
        Me.PictureBox2_Click(sender, e)
    End If
End Sub
Private Sub cmd_next_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles cmd_next.Click
    If lv_temas.SelectedItems.Count > 0 Then
        Me.PictureBox2_Click(sender, e)
    End If
End Sub
Private Sub frm_app_temas_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed
    Dim fv As New frm_app_unidad
    fv.Show()
    Me.Dispose(True)
End Sub
Private Sub frm_app_temas_MouseMove(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles MyBase.MouseMove
    If e.Button = MouseButton.Left Then

        Dim z As System.Drawing.Point
        z = Me.Location
        z.X = z.X + Me.MousePosition.X - Pos_Ant.X
        z.Y = z.Y + Me.MousePosition.Y - Pos_Ant.Y

        Me.Location = z

        Pos_Ant = Me.MousePosition
    End If
End Sub
Private Sub frm_app_temas_MouseDown(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles MyBase.MouseDown

```

```

        Pos_Ant.X = Me.MousePosition.X
        Pos_Ant.Y = Me.MousePosition.Y
    End Sub

    Private Sub frm_app_temas_Paint(ByVal sender As Object, ByVal e As
System.Windows.Forms.PaintEventArgs) Handles MyBase.Paint
    End Sub

    Private Sub btn_cerrar_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btn_cerrar.Click
    Me.Close()
    End Sub

    Private Sub lv_temas_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles lv_temas.SelectedIndexChanged
    'Me.cmd_next_Click(sender, e)
    'Me.PictureBox2_Click(sender, e)
    End Sub

    Private Sub frm_app_temas_Move(ByVal sender As Object, ByVal e As System.EventArgs) Handles
MyBase.Move
    lv_temas.Refresh()
    End Sub

    Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox2.Click
    If lv_temas.SelectedItems.Count > 0 Then
        Dim myItem As ListViewItem
        'Create an array of strings.
        Dim myItems(lv_temas.SelectedItems.Count - 1) As String
        Dim i As Integer = 0
        'Loop though the SelectedItems collection of the ListView control.

        For Each myItem In lv_temas.SelectedItems
            'Add the Text of the ListViewItem to the array.
            myItems(i) = myItem.Text
            i = i + 1
        Next

        Dim pos As Integer
        Dim id As Integer

        pos = InStr(myItems(0), "-")
        id = Mid(myItems(0), 1, pos - 1)
        Nombre_Tema = Mid(myItems(0), pos + 1)
        ID_Tema_GLOBAL = id
        If id > 0 Then
            Dim j As New frm_app_intermedio
            Me.Hide()
            j.Show()
        End If
    End If
End Sub

    Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
    Me.Close()
    End Sub
End Class

```

18. CONTENIDO

Nombre del Objeto: frm_app_contenido

Código:

```

Imports System.IO
Public Class frm_app_contenido
    Inherits System.Windows.Forms.Form

```

```

Dim Num_textos, indice_textos As Integer
Dim Num_Imgs, indice_imgs As Integer
Dim Textos() As String
Dim Lista_Imgs() As String
Dim Lista_Imgs_txts(,) As String
Dim WORD(,) As String
Dim Num_Pal_Claves As Integer

```

Windows Form Designer generated code

```

Private Sub PInfo_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

    Img_Open = False

    lbl_us.Text = "Usuario: " & ID_Nombre_Us_GLOBAL
    '-----
    If ID_Unidad_GLOBAL = 2 Then
        PictureBox3.Image = Image.FromFile(Application.StartupPath &
"\defaults\FlechaU2.png")
    End If

    If ID_Unidad_GLOBAL = 3 Then
        PictureBox3.Image = Image.FromFile(Application.StartupPath &
"\defaults\FlechaU3.png")
    End If
    '-----
    Me.Cursor = Windows.Forms.Cursors.WaitCursor

    Dim MyDataSet As New DataSet
    '----- Textos -----
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM textos WHERE id_tema=" & ID_Tema_GLOBAL.ToString & "
ORDER BY orden ASC"
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "textos")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
+ vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    Me.llamarunidad()

    'Me.lblnombre.Text = Trim(MyDataSet.Tables("unidad").Rows(0).Item("nombre_unidad"))

    Dim i As Integer
    'desde 0
    If MyDataSet.Tables("textos").Rows.Count = 0 Then
        MsgBox("No hay contenido asociado a este tema", MsgBoxStyle.Exclamation,
"EduCienSis")
        Me.Close()
        Return
    End If
    Num_textos = MyDataSet.Tables("textos").Rows.Count - 1
    ReDim Textos(Num_textos)
    ReDim Lista_Imgs_txts(Num_textos, 1)
    Dim MyPath As String
    MyPath = Application.StartupPath() & "\imgs\" & ID_Tema_GLOBAL & "\"

    For i = 0 To MyDataSet.Tables("textos").Rows.Count - 1
        Textos(i) = Trim(MyDataSet.Tables("textos").Rows(i).Item("texto"))
        Lista_Imgs_txts(i, 0) = MyDataSet.Tables("textos").Rows(i).Item("id_texto")
        If MyDataSet.Tables("textos").Rows(i).Item("imagen") Is System.DBNull.Value Then

```

```

        Lista_Imgs_txts(i, 1) = Application.StartupPath() & "\\defaults\None_Icon.png"
    Else
        Lista_Imgs_txts(i, 1) = MyPath &
Trim(MyDataSet.Tables("textos").Rows(i).Item("imagen"))
    End If
Next
RT_Prueba.Text = ""
indice_textos = 0
Cargar_textos(indice_textos)
Cargar_Img_Segun_Texto(indice_textos)

'-----CARGAR_PALABRA_CLAVE-----

With Adapter.SelectCommand
    .CommandText = "SELECT * FROM palabras_clave WHERE id_tema=" &
ID_Tema_GLOBAL.ToString & " AND tipo_recurso <> 0"
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "palabras_clave")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try
If MyDataSet.Tables("palabras_clave").Rows.Count > 0 Then
    ReDim WORD(MyDataSet.Tables("palabras_clave").Rows.Count - 1, 2)

    For i = 0 To MyDataSet.Tables("palabras_clave").Rows.Count - 1
        WORD(i, 0) =
Trim(MyDataSet.Tables("palabras_clave").Rows(i).Item("palabra_clave"))
        WORD(i, 1) =
Trim(MyDataSet.Tables("palabras_clave").Rows(i).Item("tipo_recurso"))
        WORD(i, 2) =
Trim(MyDataSet.Tables("palabras_clave").Rows(i).Item("nombre_recurso"))
    Next

    '----Palabras_Clave
    poner_palabras_clave()
End If
Num_Pal_Claves = MyDataSet.Tables("palabras_clave").Rows.Count

'----- FONDO -----
With Adapter.SelectCommand
    .CommandText = "SELECT * FROM unidad WHERE id_unidad=" & ID_Unidad_GLOBAL.ToString
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataSet, "el_fondo")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción:" _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
Return
End Try
Dim Ruta_Fondo As String
If MyDataSet.Tables("el_fondo").Rows(0).Item("fondo") Is System.DBNull.Value Then
    Ruta_Fondo = Application.StartupPath() & "\\defaults\None_Icon.png"
Else
    Ruta_Fondo = Application.StartupPath() & "\\imgs\unidades\" &
Trim(MyDataSet.Tables("el_fondo").Rows(0).Item("fondo"))
End If
Me.BackgroundImage = Image.FromFile(Ruta_Fondo)
Me.Width = Image.FromFile(Ruta_Fondo).Width
Me.Height = Image.FromFile(Ruta_Fondo).Height

```

```

'----- IMAGENES -----

Dim carpetas3 As DirectoryInfo
MyPath = Application.StartupPath() & "\imgs\" & ID_Tema_GLOBAL
carpetas3 = New DirectoryInfo(MyPath)

If carpetas3.Exists() Then
    'Existe
    Dim archivos() As FileInfo
    archivos = carpetas3.GetFiles()
    Dim imagen As FileInfo
    Dim nombre_temp As String
    Dim contador As Integer = 0
    'archivos.Length()
    ReDim Lista_Imgs(archivos.Length())
    For Each imagen In archivos
        If imagen.Extension.ToLower = ".bmp" Or imagen.Extension.ToLower = ".gif" _
        Or imagen.Extension.ToLower = ".jpg" Or imagen.Extension.ToLower = ".jpeg" Then
            nombre_temp = MyPath & "\" & imagen.Name
            Lista_Imgs(contador) = nombre_temp
            contador = contador + 1
        End If
    Next
    indice_imgs = 0
    Num_Imgs = contador

    If Num_Imgs = 0 Then
        Dim MyImage As New Bitmap(Application.StartupPath() &
"\defaults\None_Icon.png")
        Dim MyThumbNail As Image

        MyThumbNail = MyImage.GetThumbnailImage(PB_Imgs.Width, PB_Imgs.Height,
AddressOf ThumbnailAbort, Nothing)
        PB_Imgs.Image = MyThumbNail
    Else
        Cargar_Imgs(indice_imgs)
    End If
Else
    Dim MyImage As New Bitmap(Application.StartupPath() & "\defaults\None_Icon.png")
    Dim MyThumbNail As Image
    MyThumbNail = MyImage.GetThumbnailImage(PB_Imgs.Width, PB_Imgs.Height, AddressOf
ThumbnailAbort, Nothing)
    PB_Imgs.Image = MyThumbNail
    Num_Imgs = 0
End If

Me.Cursor = Windows.Forms.Cursors.Default
End Sub
Private Function Cargar_textos(ByVal X As Integer)
    If Num_textos > -1 Then
        RT_Prueba.Text = Textos(X)
        RT_Prueba.Rtf = RT_Prueba.Text
    End If
End Function
Private Function Cargar_Imgs(ByVal X As Integer)
    Ruta_Img_GLOBAL = Lista_Imgs(X)
    Dim MyImage As New Bitmap(Lista_Imgs(X))
    Dim MyThumbNail As Image

    MyThumbNail = MyImage.GetThumbnailImage(PB_Imgs.Width, PB_Imgs.Height, AddressOf
ThumbnailAbort, Nothing)
    PB_Imgs.Image = MyThumbNail
    'PB_Imgs.Image = Image.FromFile(Lista_Imgs(X))

End Function

Private Function ThumbnailAbort() As Boolean
    'Do Nothing Here
End Function
Private Sub cmd_img_back_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    If Num_Imgs > 0 Then
        If indice_imgs = 0 Then
            indice_imgs = Num_Imgs - 1
        End If
    End If
End Sub

```

```

        Else
            indice_imgs -= 1
        End If
        Cargar_Imgs(indice_imgs)
    End If
End Sub
Private Sub cmd_img_next_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    If Num_Imgs > 0 Then

        If indice_imgs < Num_Imgs - 1 Then
            indice_imgs += 1
        Else
            indice_imgs = 0
        End If
        Cargar_Imgs(indice_imgs)
    End If
End Sub

Private Sub frm_app_contenido_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed
    Dim fv As New frm_app_intermedio
    fv.Show()
    Me.Dispose(True)
End Sub

Private Function llamarunidad()
    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM unidad WHERE id_unidad=" & ID_Unidad_GLOBAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "unidad")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Me.Close()
    End Try

    lblnombre.Text = Trim(MyDataSet.Tables("unidad").Rows(0).Item("nombre_unidad"))
End Function

Private Sub B_Back_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Back.Click
    If indice_textos = 0 Then
        indice_textos = Num_textos
    Else
        indice_textos -= 1
    End If
    Cargar_textos(indice_textos)
    Cargar_Img_Segun_Texto(indice_textos)
    If Num_Pal_Claves > 0 Then
        poner_palabras_clave()
    End If
End Sub

Private Sub B_Next_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Next.Click
    If indice_textos < Num_textos Then
        indice_textos += 1
    Else
        indice_textos = 0
    End If

    Cargar_textos(indice_textos)
    Cargar_Img_Segun_Texto(indice_textos)

```



```

        If Num_Pal_Claves > 0 Then
            poner_palabras_clave()
        End If
    End Sub

    Private Sub B_Salir_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Salir.Click
        Me.Close()
    End Sub

    Private Sub B_Back1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Back1.Click
        If Num_Imgs > 0 Then
            If indice_imgs = 0 Then
                indice_imgs = Num_Imgs - 1
            Else
                indice_imgs -= 1
            End If
            Cargar_Imgs(indice_imgs)
        End If
    End Sub

    Private Sub B_Next1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Next1.Click
        If Num_Imgs > 0 Then

            If indice_imgs < Num_Imgs - 1 Then
                indice_imgs += 1
            Else
                indice_imgs = 0
            End If
            Cargar_Imgs(indice_imgs)
        End If
    End Sub

    Private Function Cargar_Img_Segun_Texto(ByVal Pos_index As Integer)

        Ruta_Img_GLOBAL = Lista_Imgs_txts(Pos_index, 1)
        Dim MyImage As New Bitmap(Lista_Imgs_txts(Pos_index, 1))
        Dim MyThumbnail As Image

        MyThumbnail = MyImage.GetThumbnailImage(PB_Imgs.Width, PB_Imgs.Height, AddressOf
ThumbnailAbort, Nothing)
        PB_Imgs.Image = MyThumbnail
    End Function

    Private Sub PictureBox7_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox7.Click

        'Ruta_Img_GLOBAL = Lista_Imgs_txts(indice_textos, 1)
        If Not Img_Open Then
            Dim y As New frm_app_img
            y.Show()
        End If

    End Sub

    Private Sub PB_Imgs_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Imgs.Click
        Me.PictureBox7_Click(sender, e)
    End Sub

    Private Function poner_palabras_clave()
        Dim i As Integer = 0
        Dim Palabra As String

        For i = 0 To WORD.GetLongLength(0) - 1

            Palabra = WORD(i, 0)
            Dim pos_inic, pos_fin, longitud As Integer
            longitud = Palabra.Length
            pos_inic = 0
            pos_fin = 0
        
```

```

While pos_fin <> -1
    pos_fin = RT_Prueba.Find(Palabra, pos_inic, RichTextBoxFinds.MatchCase)

    If pos_fin <> -1 Then
        'RT_Prueba.SelectionFont = FontVinculos.Font
        'RT_text.SelectionColor = FontVinculos.Color
        'RT_Text.Focus()
        RT_Prueba.InsertLink(Palabra, pos_fin)
        pos_inic = pos_fin + longitud
    End If
End While
Next

End Function

Private Sub RT_Prueba_LinkClicked(ByVal sender As Object, ByVal e As
System.Windows.Forms.LinkClickedEventArgs) Handles RT_Prueba.LinkClicked

    Dim i As Integer = 0
    For i = 0 To WORD.GetLength(0) - 1
        If WORD(i, 0) = e.LinkText Then

            Tipo_Recurso_GLOBAL = WORD(i, 1)
            Nombre_Recurso_GLOBAL = WORD(i, 2)
            Dim uu As New frm_app_link
            uu.Show()

        End If
    Next

End Sub
End Class

```

19. VER VIDEO/ SONIDO

Nombre del Objeto: frm_app_multimedia

Código:

```

Imports System.IO
Public Class frm_app_multimedia
    Inherits System.Windows.Forms.Form

```

Windows Form Designer generated code

```

Private Sub frm_app_multimedia_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
    lbl_autor.Text = ""
    Me.Text = "-. " & Nombre_Tema & " .-"
    LV_Multi.Clear()
    If ID_Tema_GLOBAL > 0 Then
        LV_Multi.Items.Clear()

        Dim carpetas3 As DirectoryInfo
        Dim MyPath As String
        MyPath = Application.StartupPath() & "\multimedia\" & ID_Tema_GLOBAL
        carpetas3 = New DirectoryInfo(MyPath)

        If carpetas3.Exists() Then
            'Existe
            Dim archivos() As FileInfo
            archivos = carpetas3.GetFiles()
            Dim imagen As FileInfo
            Dim nombre_temp As String
            Dim contador As Integer = 0
            For Each imagen In archivos

```

```

        nombre_temp = MyPath & "\" & imagen.Name

        If imagen.Extension.ToLower = ".avi" Or imagen.Extension.ToLower = ".mpeg"

        Or imagen.Extension.ToLower = ".mpg" Then
            LV_Multi.Items.Add(imagen.Name, 1)
            contador += 1
        End If

        If imagen.Extension.ToLower = ".wav" Or imagen.Extension.ToLower = ".mp3" _
        Or imagen.Extension.ToLower = ".midi" Then
            LV_Multi.Items.Add(imagen.Name, 0)
            contador += 1
        End If

    Next
    If contador = 0 Then
        MsgBox("No existe contenido multimedia para este tema",
        MsgBoxStyle.Exclamation, "Contenido multimedia")
        'Me.Close()
        Return
    End If
Else
    'No Existe
    MsgBox("No existe contenido multimedia para este tema",
    MsgBoxStyle.Exclamation, "Contenido multimedia")
    'Me.Close()
    Return
End If
End If

End Sub

Private Sub frm_app_multimedia_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Dim fv As New frm_app_intermedio
    fv.Show()
    Me.Dispose(True)
End Sub

Private Sub LV_Multi_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles LV_Multi.SelectedIndexChanged
    If LV_Multi.SelectedItems.Count > 0 Then
        Dim MyPath As String
        MyPath = Application.StartupPath & "\multimedia\" & ID_Tema_GLOBAL & "\"
        Dim myItems(LV_Multi.SelectedItems.Count - 1) As String
        Dim myItem As ListViewItem

        Dim i As Integer = 0
        'Loop through the SelectedItems collection of the ListView control.
        For Each myItem In LV_Multi.SelectedItems
            'Add the Text of the ListViewItem to the array.

            myItems(i) = myItem.Text
            i = i + 1
        Next
        Cargar_fuente(myItems(0))
        MyPath = MyPath & myItems(0)
        wmpplayer.URL = MyPath
        'wmpplayer.playState =

    End If
End Sub

Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox2.Click
    Me.Close()
End Sub
Private Function Cargar_fuente(ByVal nombre As String)
    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand

```

```

        .CommandText = "SELECT * FROM rec_videos WHERE id_tema=" & ID_Tema_GLOBAL.ToString
& _
        " AND nombre_archivo='" & nombre & "'"
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "vid")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return 0
    End Try
    If MyDataSet.Tables("vid").Rows.Count > 0 Then
        If MyDataSet.Tables("vid").Rows(0).Item("fuente") Is System.DBNull.Value Then
            lbl_autor.Text = "Fuente: "
        Else
            lbl_autor.Text = "Fuente: " &
Trim(MyDataSet.Tables("vid").Rows(0).Item("fuente"))
        End If

        Else
            lbl_autor.Text = ""
        End If
    End Function
End Class

```

20. VER ANIMACIONES FLASH

Nombre del Objeto: frm_app_flash

Código:

```

Imports System.IO
Public Class frm_app_flash
    Inherits System.Windows.Forms.Form

```

Windows Form Designer generated code

```

    Private Sub frm_app_flash_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        Dim tama As System.Drawing.Size
        tama.Width = 472
        tama.Height = 392

        ShockwaveFlash1.Size = tama

        Me.ltema.Text = Nombre_Tema

        Me.Text = "-. " & Nombre_Tema & " .-"
        LV_Multi.Clear()
        If ID_Tema_GLOBAL > 0 Then
            LV_Multi.Items.Clear()

            Dim carpetas3 As DirectoryInfo
            Dim MyPath As String
            MyPath = Application.StartupPath() & "\multimedia\flash\" & ID_Tema_GLOBAL
            carpetas3 = New DirectoryInfo(MyPath)

            If carpetas3.Exists() Then
                'Existe
                Dim archivos() As FileInfo
                archivos = carpetas3.GetFiles()
                Dim imagen As FileInfo

```

```

        Dim nombre_temp As String
        Dim contador As Integer = 0
        For Each imagen In archivos
            nombre_temp = MyPath & "\" & imagen.Name
            If imagen.Extension.ToLower = ".swf" Then
                LV_Multi.Items.Add(imagen.Name, 1)
                contador += 1
            End If
        Next
        If contador = 0 Then
            MsgBox("No existe contenido multimedia para este tema",
MsgBoxStyle.Exclamation, "Contenido multimedia")
        End If
    Else
        'No Existe
        MsgBox("No existe contenido multimedia para este tema",
MsgBoxStyle.Exclamation, "Contenido multimedia")
        'Me.Close()
    End If
End If
End Sub
Private Sub frm_app_flash_Closing(ByVal sender As Object, ByVal e As
System.ComponentModel.CancelEventArgs) Handles MyBase.Closing
    Dim fv As New frm_app_intermedio
    fv.Show()
    Me.Dispose(True)
End Sub
Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PictureBox2.Click
    Me.Close()
End Sub

Private Sub LV_Multi_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles LV_Multi.SelectedIndexChanged
    If LV_Multi.SelectedItems.Count > 0 Then
        Dim MyPath As String
        MyPath = Application.StartupPath & "\multimedia\flash\" & ID_Tema_GLOBAL & "\"
        Dim myItems(LV_Multi.SelectedItems.Count - 1) As String
        Dim myItem As ListViewItem

        Dim i As Integer = 0
        'Loop though the SelectedItems collection of the ListView control.
        For Each myItem In LV_Multi.SelectedItems
            'Add the Text of the ListViewItem to the array.

            myItems(i) = myItem.Text
            i = i + 1
        Next
        MyPath = MyPath & myItems(0)
        Cargar_fuente(myItems(0))
        ShockwaveFlash1.Movie = MyPath
        'wmpplayer.playState =
    End If
End Sub
Private Sub PB_rewind_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_rewind.Click
    ShockwaveFlash1.Rewind()
    ShockwaveFlash1.Play()
End Sub
Private Sub PB_Stop_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_Stop.Click
    If ShockwaveFlash1.IsPlaying Then
        ShockwaveFlash1.Stop()
    End If
End Sub
Private Sub PB_PLAY_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles PB_PLAY.Click
    If Not ShockwaveFlash1.IsPlaying Then
        ShockwaveFlash1.Play()
    End If
End Sub
Private Function Cargar_fuente(ByVal nombre As String)
    Dim MyDataSet As New DataSet

```

```

        With Adapter.SelectCommand
            .CommandText = "SELECT * FROM rec_animaciones WHERE id_tema=" &
ID_Tema_GLOBAL.ToString & _
            " AND nombre_archivo='" & nombre & "'"
            .Connection = MyCon
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDataSet, "vid")
            MyCon.Close()
        Catch ex As Exception
            MessageBox.Show("Se ha producido la siguiente excepción:" & _
                + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
            Me.Cursor = Windows.Forms.Cursors.Default
            Return 0
        End Try
        If MyDataSet.Tables("vid").Rows.Count > 0 Then
            If MyDataSet.Tables("vid").Rows(0).Item("fuente") Is System.DBNull.Value Then
                lbl_fuente.Text = "Fuente: "
            Else
                lbl_fuente.Text = "Fuente: " &
Trim(MyDataSet.Tables("vid").Rows(0).Item("fuente"))
            End If
        Else
            lbl_fuente.Text = ""
        End If
    End Function
End Class

```

21. EVALUACIONES

Nombre del Objeto: frm_app_eval

Código:

```

Imports System.Math

Public Class frm_app_evaluacion
    Inherits System.Windows.Forms.Form

    Dim objRandom As New System.Random(CType(System.DateTime.Now.Ticks Mod
System.Int32.MaxValue, Integer))

    Dim Min_Max, Segs_Max, Width_Orig, TT As Integer
    Dim Time_Finished As Boolean

    Dim Tipo_EVAL As Integer
    Dim Id_EVAL As Integer
    Dim Num_Preg_Opc, Num_Preg_FV, Num_Preg_Par As Integer
    Dim La_Nota As Double
    Dim IDs_Opc(), IDs_FV() As Integer
    Dim Resp_Par(,), Resp_Par22() As String

```

Windows Form Designer generated code

```

Private Sub frm_app_evaluacion_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
    Me.Cursor = Windows.Forms.Cursors.WaitCursor
    If PERM_TEST = False Then
        MsgBox("Este Alumno no tiene permisos para " & _
            vbCrLf & "realizar exámenes debido al grupo en el que" & _
            " pertenece", MsgBoxStyle.Exclamation, "EduCienSys")
        Me.Close()
    End If

```

```

lbl_us1.Text = "Usuario: " & ID_Nombre_Us_GLOBAL
lbl_us2.Text = "Usuario: " & ID_Nombre_Us_GLOBAL
lbl_us3.Text = "Usuario: " & ID_Nombre_Us_GLOBAL
lbl_us4.Text = "Usuario: " & ID_Nombre_Us_GLOBAL
lbl_us5.Text = "Usuario: " & ID_Nombre_Us_GLOBAL
lbl_us6.Text = "Usuario: " & ID_Nombre_Us_GLOBAL

Dim My_Data As New DataSet

'-- Ver si hay evaluacion para ese tema
With Adapter.SelectCommand
    .CommandText = "SELECT * FROM evaluaciones WHERE id_tema=" & ID_Tema_GLOBAL
    .Connection = MyCon
End With

Try
    MyCon.Open()
    Adapter.Fill(My_Data, "Evaluaciones")
    MyCon.Close()
Catch ex As Exception
    MessageBox.Show("Se ha producido la siguiente excepción: " _
        + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
    Me.Cursor = Windows.Forms.Cursors.Default
    Return
End Try

If My_Data.Tables("Evaluaciones").Rows.Count <= 0 Then
    MsgBox("No hay Evaluación asignada para este tema", MsgBoxStyle.Exclamation,
"EduCienSis")
    Me.Cursor = Windows.Forms.Cursors.Default
    Me.Close()
    Return
End If

If My_Data.Tables("Evaluaciones").Rows(0).Item("activado") = 0 Then
    MsgBox("No puede realizar este examen aún debido a que no ha sido activado",
MsgBoxStyle.Exclamation, "EduCienSis")
    Me.Cursor = Windows.Forms.Cursors.Default
    Me.Close()
    Return
End If

'-----
'-- TIEMPO --
'-----

TimSeg.Interval = 1000
Min_Max = My_Data.Tables("Evaluaciones").Rows(0).Item("t_maximo")
Segs_Max = 0
lbl_tick.Text = Min_Max & " : " & "0" & Segs_Max
Width_Orig = lbl_time.Width
TT = Min_Max * 60 + Segs_Max

'-----
'-----

Id_EVAL = My_Data.Tables("Evaluaciones").Rows(0).Item("id_evaluacion")
Tipo_EVAL = My_Data.Tables("Evaluaciones").Rows(0).Item("tipo_evaluacion")

Num_Preg_Opc = My_Data.Tables("Evaluaciones").Rows(0).Item("num_opc")
Num_Preg_FV = My_Data.Tables("Evaluaciones").Rows(0).Item("num_fv")
Num_Preg_Par = My_Data.Tables("Evaluaciones").Rows(0).Item("num_par")

If Num_Preg_Opc > 0 Then
    ReDim IDs_Opc(Num_Preg_Opc - 1)
End If
If Num_Preg_FV > 0 Then
    ReDim IDs_FV(Num_Preg_FV - 1)
End If

'-- Ver si el Alumno no ha hecho la evaluacion --
With Adapter.SelectCommand

```

```

        .CommandText = "SELECT * FROM notas WHERE id_us=" & ID_Us_GLOBAL & " AND
id_evaluacion = " & Id_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(My_Data, "notas")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción: " & _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return
    End Try

    If My_Data.Tables("notas").Rows.Count > 0 Then
        MsgBox("Este Alumno ya realizó con anterioridad esta" & _
            "prueba; Si desea hacer nuevamente la prueba consulte" & _
            " con el maestro encargado", MsgBoxStyle.Exclamation, "EduCienSis")
        Me.Cursor = Windows.Forms.Cursors.Default
        Me.Close()
        Return
    End If

    '--Darle Forma al form
    Dim Pos_Paneles As System.Drawing.Point
    Dim tama As System.Drawing.Size
    tama.Width = 488
    tama.Height = 616
    Me.Size = tama

    '--Darle forma a los paneles
    Pos_Paneles.X = 8
    Pos_Paneles.Y = 16

    tama.Width = 464
    tama.Height = 520

    pan_fv.Location = Pos_Paneles
    pan_fv.Size = tama
    pan_opc_1.Location = Pos_Paneles
    pan_opc_1.Size = tama
    pan_opc_2.Location = Pos_Paneles
    pan_opc_2.Size = tama
    pan_par.Location = Pos_Paneles
    pan_par.Size = tama
    Tab_Resumen.Location = Pos_Paneles
    Tab_Resumen.Size = tama

    '-- Inicializar valores
    'Num_Preg_Opc = 0
    'Num_Preg_FV = 0
    'Num_Preg_Par = 0

    '---- Empezar
    Cargar_Eval()
    Oculta_Paneles()

    If Num_Preg_Opc > 0 Then
        pan_opc_1.Visible = True
    Else
        If Num_Preg_FV > 0 Then
            pan_fv.Visible = True
        Else
            pan_par.Visible = True
        End If
    End If
    Me.StartPosition = FormStartPosition.CenterScreen
    Me.Cursor = Windows.Forms.Cursors.Default
    Time_Finished = False
    TimSeg.Start()
End Sub

```



```

Private Function Cargar_Eval()

Me.Cursor = Windows.Forms.Cursors.WaitCursor
Dim MyDataSet As New DataSet

'----OPCION MULTIPLE-----
If Tipo_EVAL = 1 Or Tipo_EVAL = 4 Or Tipo_EVAL = 5 Or Tipo_EVAL = 6 Then
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM preguntas_sm WHERE id_evaluacion=" & Id_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "sm0")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    Dim Cont_X As Integer
    Dim Indice_Aleat As Integer
    Cont_X = 0
    While Cont_X < Num_Preg_Opc
        Indice_Aleat = RandomNumber(Num_Preg_Opc * 2)
        If Not No_esta(Indice_Aleat, Cont_X, "OPC") Then
            Ids_Opc(Cont_X) = Indice_Aleat
            Cont_X += 1
        End If
    End While
    '-- Limpiar Controles

    lbl_opc_buenas.Visible = True

    lbl_p1.Text = ""
    lbl_p2.Text = ""
    lbl_p3.Text = ""
    lbl_p4.Text = ""
    lbl_p5.Text = ""
    Pan_Q1.Visible = False
    Pan_Q2.Visible = False
    Pan_Q3.Visible = False
    Pan_Q4.Visible = False
    Pan_Q5.Visible = False

    '-- Respuestas
    lbl_opc_p1.Text = ""
    lbl_opc_p2.Text = ""
    lbl_opc_p3.Text = ""
    lbl_opc_p4.Text = ""
    lbl_opc_p5.Text = ""

    lbl_opc_s_p1.Text = ""
    lbl_opc_s_p2.Text = ""
    lbl_opc_s_p3.Text = ""
    lbl_opc_s_p4.Text = ""
    lbl_opc_s_p5.Text = ""

    lbl_opc_c_p1.Text = ""
    lbl_opc_c_p2.Text = ""
    lbl_opc_c_p3.Text = ""
    lbl_opc_c_p4.Text = ""
    lbl_opc_c_p5.Text = ""

    pb_opc_m1.Visible = False
    pb_opc_m2.Visible = False
    pb_opc_m3.Visible = False
    pb_opc_m4.Visible = False
    pb_opc_m5.Visible = False

```

```

pb_opc_b1.Visible = False
pb_opc_b2.Visible = False
pb_opc_b3.Visible = False
pb_opc_b4.Visible = False
pb_opc_b5.Visible = False

B_Next_Opc1.Visible = False
Dim Correcta As String
If Num_Preg_Opc >= 1 Then
    lbl_p1.Text = "1) " &
Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(0)).Item("texto_pregunta"))
    Pan_Q1.Visible = True
    RB_opc_P1A.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(0)).Item("a"))
    RB_opc_P1B.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(0)).Item("b"))
    RB_opc_P1C.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(0)).Item("c"))

    lbl_opc_p1.Text = lbl_p1.Text
    Correcta = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(0)).Item("correcta"))
    lbl_opc_c_p1.Text = Correcta
End If

If Num_Preg_Opc >= 2 Then
    lbl_p2.Text = "2) " &
Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(1)).Item("texto_pregunta"))
    Pan_Q2.Visible = True
    RB_opc_P2A.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(1)).Item("a"))
    RB_opc_P2B.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(1)).Item("b"))
    RB_opc_P2C.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(1)).Item("c"))

    lbl_opc_p2.Text = lbl_p2.Text
    Correcta = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(1)).Item("correcta"))
    lbl_opc_c_p2.Text = Correcta
End If

If Num_Preg_Opc >= 3 Then
    lbl_p3.Text = "3) " &
Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(2)).Item("texto_pregunta"))
    Pan_Q3.Visible = True
    RB_opc_P3A.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(2)).Item("a"))
    RB_opc_P3B.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(2)).Item("b"))
    RB_opc_P3C.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(2)).Item("c"))

    lbl_opc_p3.Text = lbl_p3.Text
    Correcta = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(2)).Item("correcta"))
    lbl_opc_c_p3.Text = Correcta
End If

If Num_Preg_Opc >= 4 Then
    lbl_p4.Text = "4) " &
Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(3)).Item("texto_pregunta"))
    Pan_Q4.Visible = True
    RB_opc_P4A.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(3)).Item("a"))
    RB_opc_P4B.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(3)).Item("b"))
    RB_opc_P4C.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(3)).Item("c"))

    lbl_opc_p4.Text = lbl_p4.Text
    Correcta = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(3)).Item("correcta"))
    lbl_opc_c_p4.Text = Correcta
End If

If Num_Preg_Opc >= 5 Then
    lbl_p5.Text = "5) " &
Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(4)).Item("texto_pregunta"))
    Pan_Q5.Visible = True
    RB_opc_P5A.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(4)).Item("a"))
    RB_opc_P5B.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(4)).Item("b"))
    RB_opc_P5C.Text = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(4)).Item("c"))

    lbl_opc_p5.Text = lbl_p5.Text
    Correcta = Trim(MyDataSet.Tables("sm0").Rows(IDs_Opc(4)).Item("correcta"))
    lbl_opc_c_p5.Text = Correcta
End If
End If

```

```

'----- VERDADERO Y FALSO -----
If Tipo_EVAL = 2 Or Tipo_EVAL = 4 Or Tipo_EVAL = 6 Or Tipo_EVAL = 7 Then
    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM preguntas_fv WHERE id_evaluacion=" & Id_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "fv0")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    Dim Cont_X, Indice_Aleat As Integer
    Cont_X = 0
    While Cont_X < Num_Preg_FV
        Indice_Aleat = RandomNumber(Num_Preg_FV * 2)
        If Not No_esta(Indice_Aleat, Cont_X, "FV") Then
            IDs_FV(Cont_X) = Indice_Aleat
            Cont_X += 1
        End If
    End While
    lbl_vf_buenas.Visible = True

    lbl_fv_p1.Text = ""
    lbl_fv_p2.Text = ""
    lbl_fv_p3.Text = ""
    lbl_fv_p4.Text = ""
    lbl_fv_p5.Text = ""

    pan_fvq1.Visible = False
    pan_fvq2.Visible = False
    pan_fvq3.Visible = False
    pan_fvq4.Visible = False
    pan_fvq5.Visible = False

    '--Respuestas
    lbl_fv_res_p1.Text = ""
    lbl_fv_res_p2.Text = ""
    lbl_fv_res_p3.Text = ""
    lbl_fv_res_p4.Text = ""
    lbl_fv_res_p5.Text = ""

    lbl_fv_res_1.Text = ""
    lbl_fv_res_2.Text = ""
    lbl_fv_res_3.Text = ""
    lbl_fv_res_4.Text = ""
    lbl_fv_res_5.Text = ""

    pb_fv_m1.Visible = False
    pb_fv_m2.Visible = False
    pb_fv_m3.Visible = False
    pb_fv_m4.Visible = False
    pb_fv_m5.Visible = False

    pb_fv_b1.Visible = False
    pb_fv_b2.Visible = False
    pb_fv_b3.Visible = False
    pb_fv_b4.Visible = False
    pb_fv_b5.Visible = False

    If Num_Preg_FV >= 1 Then
        pan_fvq1.Visible = True
        lbl_fv_p1.Text = "1) " &
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(0)).Item("texto_pregunta"))
        lbl_fv_res_p1.Text = lbl_fv_p1.Text
        lbl_txt_c1.Text =
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(0)).Item("respuesta"))

```

```

End If

If Num_Preg_FV >= 2 Then
    pan_fvq2.Visible = True
    lbl_fv_p2.Text = "2) " &
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(1)).Item("texto_pregunta"))
    lbl_fv_res_p2.Text = lbl_fv_p2.Text
    lbl_txt_c2.Text =
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(1)).Item("respuesta"))
End If

If Num_Preg_FV >= 3 Then
    pan_fvq3.Visible = True
    lbl_fv_p3.Text = "3) " &
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(2)).Item("texto_pregunta"))
    lbl_fv_res_p3.Text = lbl_fv_p3.Text
    lbl_txt_c3.Text =
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(2)).Item("respuesta"))
End If

If Num_Preg_FV >= 4 Then
    pan_fvq4.Visible = True
    lbl_fv_p4.Text = "4) " &
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(3)).Item("texto_pregunta"))
    lbl_fv_res_p4.Text = lbl_fv_p4.Text
    lbl_txt_c4.Text =
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(3)).Item("respuesta"))
End If

If Num_Preg_FV >= 5 Then
    pan_fvq5.Visible = True
    lbl_fv_p5.Text = "5) " &
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(4)).Item("texto_pregunta"))
    lbl_fv_res_p5.Text = lbl_fv_p5.Text
    lbl_txt_c5.Text =
Trim(MyDataSet.Tables("fv0").Rows(IDs_FV(4)).Item("respuesta"))
End If
End If

'---- PARENTESIS ----
If Tipo_EVAL = 3 Or Tipo_EVAL = 5 Or Tipo_EVAL = 6 Or Tipo_EVAL = 7 Then

    lbl_par_A.Visible = False
    lbl_par_B.Visible = False
    lbl_par_C.Visible = False
    lbl_par_D.Visible = False
    lbl_par_E.Visible = False

    lbl_par_q1.Text = ""
    lbl_par_q2.Text = ""
    lbl_par_q3.Text = ""
    lbl_par_q4.Text = ""
    lbl_par_q5.Text = ""

    lbl_par_1.Visible = False
    lbl_par_2.Visible = False
    lbl_par_3.Visible = False
    lbl_par_4.Visible = False
    lbl_par_5.Visible = False

    cmb_par_1.Visible = False
    cmb_par_2.Visible = False
    cmb_par_3.Visible = False
    cmb_par_4.Visible = False
    cmb_par_5.Visible = False

    lbl_par_r1.Text = ""
    lbl_par_r2.Text = ""
    lbl_par_r3.Text = ""
    lbl_par_r4.Text = ""
    lbl_par_r5.Text = ""

    cmb_par_1.Items.Clear()
    cmb_par_2.Items.Clear()

```

```

cmb_par_3.Items.Clear()
cmb_par_4.Items.Clear()
cmb_par_5.Items.Clear()
cmb_par_6.Items.Clear()

cmb_par_1.Items.Add(" ")
cmb_par_2.Items.Add(" ")
cmb_par_3.Items.Add(" ")
cmb_par_4.Items.Add(" ")
cmb_par_5.Items.Add(" ")
cmb_par_6.Items.Add(" ")

'--Resultados
lbl_par_rA.Visible = False
lbl_par_rB.Visible = False
lbl_par_rC.Visible = False
lbl_par_rD.Visible = False
lbl_par_rE.Visible = False

lbl_par_rr1.Text = ""
lbl_par_rr2.Text = ""
lbl_par_rr3.Text = ""
lbl_par_rr4.Text = ""
lbl_par_rr5.Text = ""

lbl_par_txtr1.Text = ""
lbl_par_txtr2.Text = ""
lbl_par_txtr3.Text = ""
lbl_par_txtr4.Text = ""
lbl_par_txtr5.Text = ""
lbl_par_txtr6.Text = ""

lbl_par_rc1.Text = ""
lbl_par_rc2.Text = ""
lbl_par_rc3.Text = ""
lbl_par_rc4.Text = ""
lbl_par_rc5.Text = ""
lbl_par_rc6.Text = ""

lbl_par_rsl1.Text = ""
lbl_par_rsl2.Text = ""
lbl_par_rsl3.Text = ""
lbl_par_rsl4.Text = ""
lbl_par_rsl5.Text = ""
lbl_par_rsl6.Text = ""

'-- Respuestas --
ReDim Resp_Par(Num_Preg_Par, 2)

Dim MyDataS As New DataSet

With Adapter.SelectCommand
    .Connection = MyCon
    .CommandText = "SELECT * FROM respuestas_parentesis WHERE id_evaluacion=" &
Id_EVAL & " AND id_pregunta=0"
End With

Try
    MyCon.Open()
    Adapter.Fill(MyDataS, "RespPar")
    MyCon.Close()
Catch ex As Exception
    Me.Cursor = System.Windows.Forms.Cursors.Default
    MyCon.Close()
    MsgBox(ex.Message)
End Try

'--ENCONTRAR LA 0
Resp_Par(0, 0) = Trim(MyDataS.Tables("RespPar").Rows(0).Item("texto_resp"))
Resp_Par(0, 1) = 0
Resp_Par(0, 2) = Trim(MyDataS.Tables("RespPar").Rows(0).Item("correcta"))
MyDataS.Tables(0).Clear()

```

```

Dim cual As Integer
Dim ij, arr_bin() As Integer
ReDim arr_bin(Num_Preg_Par)

For ij = 0 To Num_Preg_Par
    arr_bin(ij) = GetRandomNumber(0, 1)
Next
ij = 0
'--Ahora con las demás
'--A
If Num_Preg_Par >= 1 Then
    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT * FROM respuestas_parentesis WHERE correcta='A' AND
id_evaluacion=" & Id_EVAL
    End With
    Try
        MyCon.Open()
        Adapter.Fill(MyDataS, "RespPar")
        MyCon.Close()
    Catch ex As Exception
        Me.Cursor = System.Windows.Forms.Cursors.Default
        MyCon.Close()
        MsgBox(ex.Message)
    End Try
    cual = arr_bin(ij)
    Resp_Par(1, 0) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("texto_resp"))
    Resp_Par(1, 1) = MyDataS.Tables("RespPar").Rows(cual).Item("id_pregunta")
    Resp_Par(1, 2) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("correcta"))

    ij += 1
End If
MyDataS.Tables(0).Clear()
'--B
If Num_Preg_Par >= 2 Then
    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT * FROM respuestas_parentesis WHERE correcta='B' AND
id_evaluacion=" & Id_EVAL
    End With
    Try
        MyCon.Open()
        Adapter.Fill(MyDataS, "RespPar")
        MyCon.Close()
    Catch ex As Exception
        Me.Cursor = System.Windows.Forms.Cursors.Default
        MyCon.Close()
        MsgBox(ex.Message)
    End Try
    cual = arr_bin(ij)
    Resp_Par(2, 0) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("texto_resp"))
    Resp_Par(2, 1) = MyDataS.Tables("RespPar").Rows(cual).Item("id_pregunta")
    Resp_Par(2, 2) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("correcta"))
    ij += 1
End If
MyDataS.Tables(0).Clear()

'--C
If Num_Preg_Par >= 3 Then
    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT * FROM respuestas_parentesis WHERE correcta='C' AND
id_evaluacion=" & Id_EVAL
    End With
    Try
        MyCon.Open()
        Adapter.Fill(MyDataS, "RespPar")
        MyCon.Close()
    Catch ex As Exception
        Me.Cursor = System.Windows.Forms.Cursors.Default
        MyCon.Close()
        MsgBox(ex.Message)
    End Try

```

```

        cual = arr_bin(ij)
        Resp_Par(3, 0) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("texto_resp"))
        Resp_Par(3, 1) = MyDataS.Tables("RespPar").Rows(cual).Item("id_pregunta")
        Resp_Par(3, 2) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("correcta"))
        ij += 1
    End If
    MyDataS.Tables(0).Clear()

    '--D
    If Num_Preg_Par >= 4 Then
        With Adapter.SelectCommand
            .Connection = MyCon
            .CommandText = "SELECT * FROM respuestas_parentesis WHERE correcta='D' AND
id_evaluacion=" & Id_EVAL
        End With
        Try
            MyCon.Open()
            Adapter.Fill(MyDataS, "RespPar")
            MyCon.Close()
        Catch ex As Exception
            Me.Cursor = System.Windows.Forms.Cursors.Default
            MyCon.Close()
            MsgBox(ex.Message)
        End Try
        cual = arr_bin(ij)
        Resp_Par(4, 0) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("texto_resp"))
        Resp_Par(4, 1) = MyDataS.Tables("RespPar").Rows(cual).Item("id_pregunta")
        Resp_Par(4, 2) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("correcta"))
        ij += 1
    End If
    MyDataS.Tables(0).Clear()

    '--E
    If Num_Preg_Par >= 5 Then
        With Adapter.SelectCommand
            .Connection = MyCon
            .CommandText = "SELECT * FROM respuestas_parentesis WHERE correcta='E' AND
id_evaluacion=" & Id_EVAL
        End With
        Try
            MyCon.Open()
            Adapter.Fill(MyDataS, "RespPar")
            MyCon.Close()
        Catch ex As Exception
            Me.Cursor = System.Windows.Forms.Cursors.Default
            MyCon.Close()
            MsgBox(ex.Message)
        End Try
        cual = arr_bin(ij)
        Resp_Par(5, 0) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("texto_resp"))
        Resp_Par(5, 1) = MyDataS.Tables("RespPar").Rows(cual).Item("id_pregunta")
        Resp_Par(5, 2) = Trim(MyDataS.Tables("RespPar").Rows(cual).Item("correcta"))
        ij += 1
    End If

    ReDim Resp_Par22(Num_Preg_Par)
    Dim ziz As Integer = 0
    For ziz = 0 To Num_Preg_Par
        Resp_Par22(ziz) = 100
    Next
    Dim Indice_Aleat, icx, cont_todos As Integer

    cont_todos = 0
    While cont_todos <= Num_Preg_Par
        Indice_Aleat = RandomNumber(Num_Preg_Par + 1)
        Dim Esta As Boolean = False
        For icx = 0 To Num_Preg_Par
            If Resp_Par22(icx) = Indice_Aleat Then
                Esta = True
            End If
        Next
        If Not Esta Then
            Resp_Par22(cont_todos) = Indice_Aleat
            cont_todos += 1
        End If
    End While

```

```

        End If
    End While

    '-- RESPUESTAS --
    Dim Cont_Pregs As Integer = 0
    If Num_Preg_Par >= 1 Then
        lbl_par_r1.Text = Resp_Par(Resp_Par22(Cont_Pregs), 0)
        lbl_par_1.Visible = True
        cmb_par_1.Visible = True
        lbl_par_txtr1.Text = lbl_par_r1.Text
        lbl_par_rc1.Text = Resp_Par(Resp_Par22(Cont_Pregs), 2)
        Cont_Pregs += 1
    End If
    If Num_Preg_Par >= 2 Then
        lbl_par_r2.Text = Resp_Par(Resp_Par22(Cont_Pregs), 0)
        lbl_par_2.Visible = True
        cmb_par_2.Visible = True
        lbl_par_txtr2.Text = lbl_par_r2.Text
        lbl_par_rc2.Text = Resp_Par(Resp_Par22(Cont_Pregs), 2)
        Cont_Pregs += 1
    End If
    If Num_Preg_Par >= 3 Then
        lbl_par_r3.Text = Resp_Par(Resp_Par22(Cont_Pregs), 0)
        lbl_par_3.Visible = True
        cmb_par_3.Visible = True
        lbl_par_txtr3.Text = lbl_par_r3.Text
        lbl_par_rc3.Text = Resp_Par(Resp_Par22(Cont_Pregs), 2)
        Cont_Pregs += 1
    End If
    If Num_Preg_Par >= 4 Then
        lbl_par_r4.Text = Resp_Par(Resp_Par22(Cont_Pregs), 0)
        lbl_par_4.Visible = True
        cmb_par_4.Visible = True
        lbl_par_txtr4.Text = lbl_par_r4.Text
        lbl_par_rc4.Text = Resp_Par(Resp_Par22(Cont_Pregs), 2)
        Cont_Pregs += 1
    End If
    If Num_Preg_Par >= 5 Then
        lbl_par_r5.Text = Resp_Par(Resp_Par22(Cont_Pregs), 0)
        lbl_par_5.Visible = True
        cmb_par_5.Visible = True
        lbl_par_txtr5.Text = lbl_par_r5.Text
        lbl_par_rc5.Text = Resp_Par(Resp_Par22(Cont_Pregs), 2)
        Cont_Pregs += 1
    End If
    lbl_par_r6.Text = Resp_Par(Resp_Par22(Cont_Pregs), 0)
    lbl_par_6.Visible = True
    cmb_par_6.Visible = True
    lbl_par_txtr6.Text = lbl_par_r6.Text
    lbl_par_rc6.Text = Resp_Par(Resp_Par22(Cont_Pregs), 2)

    '-- PREGUNTAS --
    Cont_Pregs = 1

    Dim MyDaxx As New DataSet
    If Num_Preg_Par >= 1 Then
        With Adapter.SelectCommand
            .Connection = MyCon
            .CommandText = "SELECT * FROM preguntas_parentesis WHERE id_pregunta=" &
Resp_Par(Cont_Pregs, 1)
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDaxx)
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            Me.Cursor = System.Windows.Forms.Cursors.Default
            MsgBox(ex.Message)
        End Try

        lbl_par_A.Visible = True

```



```

lbl_par_q1.Text = Trim(MyDaxx.Tables(0).Rows(0).Item("texto_pregunta"))
lbl_par_rA.Visible = True
lbl_par_rr1.Text = lbl_par_q1.Text

cmb_par_1.Items.Add("A")
cmb_par_2.Items.Add("A")
cmb_par_3.Items.Add("A")
cmb_par_4.Items.Add("A")
cmb_par_5.Items.Add("A")
cmb_par_6.Items.Add("A")
MyDaxx.Tables(0).Clear()
Cont_Pregs += 1
End If

If Num_Preg_Par >= 2 Then
    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT * FROM preguntas_parentesis WHERE id_pregunta=" &
Resp_Par(Cont_Pregs, 1)
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDaxx)
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        Me.Cursor = System.Windows.Forms.Cursors.Default
        MsgBox(ex.Message)
    End Try

    lbl_par_B.Visible = True
    lbl_par_q2.Text = Trim(MyDaxx.Tables(0).Rows(0).Item("texto_pregunta"))
    lbl_par_rB.Visible = True
    lbl_par_rr2.Text = lbl_par_q2.Text

    cmb_par_1.Items.Add("B")
    cmb_par_2.Items.Add("B")
    cmb_par_3.Items.Add("B")
    cmb_par_4.Items.Add("B")
    cmb_par_5.Items.Add("B")
    cmb_par_6.Items.Add("B")
    MyDaxx.Tables(0).Clear()
    Cont_Pregs += 1
End If

If Num_Preg_Par >= 3 Then
    With Adapter.SelectCommand
        .Connection = MyCon
        .CommandText = "SELECT * FROM preguntas_parentesis WHERE id_pregunta=" &
Resp_Par(Cont_Pregs, 1)
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDaxx)
        MyCon.Close()
    Catch ex As Exception
        MyCon.Close()
        Me.Cursor = System.Windows.Forms.Cursors.Default
        MsgBox(ex.Message)
    End Try

    lbl_par_C.Visible = True
    lbl_par_q3.Text = Trim(MyDaxx.Tables(0).Rows(0).Item("texto_pregunta"))
    lbl_par_rC.Visible = True
    lbl_par_rr3.Text = lbl_par_q3.Text

    cmb_par_1.Items.Add("C")
    cmb_par_2.Items.Add("C")
    cmb_par_3.Items.Add("C")
    cmb_par_4.Items.Add("C")
    cmb_par_5.Items.Add("C")

```

```

        cmb_par_6.Items.Add("C")
        MyDaxx.Tables(0).Clear()
        Cont_Pregs += 1
    End If

    If Num_Preg_Par >= 4 Then
        With Adapter.SelectCommand
            .Connection = MyCon
            .CommandText = "SELECT * FROM preguntas_parentesis WHERE id_pregunta=" &
Resp_Par(Cont_Pregs, 1)
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDaxx)
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            Me.Cursor = System.Windows.Forms.Cursors.Default
            MsgBox(ex.Message)
        End Try

        lbl_par_D.Visible = True
        lbl_par_q4.Text = Trim(MyDaxx.Tables(0).Rows(0).Item("texto_pregunta"))
        lbl_par_rD.Visible = True
        lbl_par_rr4.Text = lbl_par_q4.Text

        cmb_par_1.Items.Add("D")
        cmb_par_2.Items.Add("D")
        cmb_par_3.Items.Add("D")
        cmb_par_4.Items.Add("D")
        cmb_par_5.Items.Add("D")
        cmb_par_6.Items.Add("D")
        MyDaxx.Tables(0).Clear()
        Cont_Pregs += 1
    End If

    If Num_Preg_Par >= 5 Then
        With Adapter.SelectCommand
            .Connection = MyCon
            .CommandText = "SELECT * FROM preguntas_parentesis WHERE id_pregunta=" &
Resp_Par(Cont_Pregs, 1)
        End With

        Try
            MyCon.Open()
            Adapter.Fill(MyDaxx)
            MyCon.Close()
        Catch ex As Exception
            MyCon.Close()
            Me.Cursor = System.Windows.Forms.Cursors.Default
            MsgBox(ex.Message)
        End Try

        lbl_par_E.Visible = True
        lbl_par_q5.Text = Trim(MyDaxx.Tables(0).Rows(0).Item("texto_pregunta"))
        lbl_par_rE.Visible = True
        lbl_par_rr5.Text = lbl_par_q5.Text

        cmb_par_1.Items.Add("E")
        cmb_par_2.Items.Add("E")
        cmb_par_3.Items.Add("E")
        cmb_par_4.Items.Add("E")
        cmb_par_5.Items.Add("E")
        cmb_par_6.Items.Add("E")
        MyDaxx.Tables(0).Clear()
        Cont_Pregs += 1
    End If

    cmb_par_1.SelectedIndex = 0
    cmb_par_2.SelectedIndex = 0
    cmb_par_3.SelectedIndex = 0
    cmb_par_4.SelectedIndex = 0

```

```

        cmb_par_5.SelectedIndex = 0
        cmb_par_6.SelectedIndex = 0
        lbl_par_buenas.Visible = True

    End If

    '-- Ver lo de los botones

    '-- Opc 1
    If Num_Preg_Opc > 3 Or Num_Preg_FV > 0 Or Num_Preg_Par > 0 Then
        B_Next_Op1.Visible = True
    Else
        B_Next_Op1.Visible = False
    End If

    If Num_Preg_Opc <= 3 And Num_Preg_FV = 0 And Num_Preg_Par = 0 Then
        B_Next_Op1.Text = "Finalizar"
    End If

    '-- FV
    If Num_Preg_Opc = 0 Then
        B_Back_FV.Visible = False
    Else
        B_Back_FV.Visible = True
    End If

    If Num_Preg_Par > 0 Then
        B_Next_Op1.Text = "Siguiente"
    Else
        B_Next_Op1.Text = "Finalizar"
    End If

    '-- Par
    If Num_Preg_Opc > 0 Or Num_Preg_FV > 0 Then
        B_Back_Par.Visible = True
    Else
        B_Back_Par.Visible = False
    End If

    Me.Cursor = System.Windows.Forms.Cursors.Default

End Function
Private Function Oculta_Paneles()
    pan_opc_1.Visible = False
    pan_opc_2.Visible = False
    pan_par.Visible = False
    pan_fv.Visible = False
    Tab_Resumen.Visible = False
End Function
Private Function Finalizar()
    If Verificar_Datos() Then
        Calificar()
        If PERM_NOTA = True Then
            With Adapter.DeleteCommand
                .Connection = MyCon
                .CommandText = "DELETE FROM notas WHERE id_evaluacion = " & Id_EVAL & _
                    "AND id_us= " & ID_Us_GLOBAL
            End With

            Try
                MyCon.Open()
                Adapter.DeleteCommand.ExecuteNonQuery()
                MyCon.Close()
            Catch ex As Exception
                MessageBox.Show("Se ha producido la siguiente excepción:" & _
                    + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
                Me.Cursor = Windows.Forms.Cursors.Default
                Return Nothing
            End Try

            With Adapter.InsertCommand
                .Connection = MyCon

```

```

        .CommandText = "INSERT INTO notas (id_evaluacion, id_us,
fecha_realizacion," & _
        " nota) VALUES(" & Id_EVAL & ", " & ID_Us_GLOBAL & _
        ", getdate(), " & La_Nota & "'")"
    End With
    Try
        MyCon.Open()
        Adapter.InsertCommand.ExecuteNonQuery()
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Return Nothing
    End Try

    End If
    Oculta_Paneles()
    Tab_Resumen.Visible = True
End If
End Function
Private Sub RB_opc_P1A_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P1A.CheckedChanged
    If RB_opc_P1A.Checked Then
        RB_opc_P1A.Font = Font_Selec.Font
    Else
        RB_opc_P1A.Font = Font_Normal.Font
    End If
End Sub
Private Sub RB_opc_P1B_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P1B.CheckedChanged
    If RB_opc_P1B.Checked Then
        RB_opc_P1B.Font = Font_Selec.Font
    Else
        RB_opc_P1B.Font = Font_Normal.Font
    End If
End Sub
Private Sub RB_opc_P1C_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P1C.CheckedChanged
    If RB_opc_P1C.Checked Then
        RB_opc_P1C.Font = Font_Selec.Font
    Else
        RB_opc_P1C.Font = Font_Normal.Font
    End If
End Sub
Private Sub RB_opc_P2A_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P2A.CheckedChanged
    If RB_opc_P2A.Checked Then
        RB_opc_P2A.Font = Font_Selec.Font
    Else
        RB_opc_P2A.Font = Font_Normal.Font
    End If
End Sub
Private Sub RB_opc_P2B_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P2B.CheckedChanged
    If RB_opc_P2B.Checked Then
        RB_opc_P2B.Font = Font_Selec.Font
    Else
        RB_opc_P2B.Font = Font_Normal.Font
    End If
End Sub
Private Sub RB_opc_P2C_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P2C.CheckedChanged
    If RB_opc_P2C.Checked Then
        RB_opc_P2C.Font = Font_Selec.Font
    Else
        RB_opc_P2C.Font = Font_Normal.Font
    End If
End Sub
Private Sub RB_opc_P3A_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P3A.CheckedChanged
    If RB_opc_P3A.Checked Then
        RB_opc_P3A.Font = Font_Selec.Font
    End If
End Sub

```

```

        Else
            RB_opc_P3A.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P3B_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P3B.CheckedChanged
        If RB_opc_P3B.Checked Then
            RB_opc_P3B.Font = Font_Selec.Font
        Else
            RB_opc_P3B.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P3C_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P3C.CheckedChanged
        If RB_opc_P3C.Checked Then
            RB_opc_P3C.Font = Font_Selec.Font
        Else
            RB_opc_P3C.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P4A_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P4A.CheckedChanged
        If RB_opc_P4A.Checked Then
            RB_opc_P4A.Font = Font_Selec.Font
        Else
            RB_opc_P4A.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P4B_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P4B.CheckedChanged
        If RB_opc_P4B.Checked Then
            RB_opc_P4B.Font = Font_Selec.Font
        Else
            RB_opc_P4B.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P4C_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P4C.CheckedChanged
        If RB_opc_P4C.Checked Then
            RB_opc_P4C.Font = Font_Selec.Font
        Else
            RB_opc_P4C.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P5A_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P5A.CheckedChanged
        If RB_opc_P5A.Checked Then
            RB_opc_P5A.Font = Font_Selec.Font
        Else
            RB_opc_P5A.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P5B_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P5B.CheckedChanged
        If RB_opc_P5B.Checked Then
            RB_opc_P5B.Font = Font_Selec.Font
        Else
            RB_opc_P5B.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub RB_opc_P5C_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles RB_opc_P5C.CheckedChanged
        If RB_opc_P5C.Checked Then
            RB_opc_P5C.Font = Font_Selec.Font
        Else
            RB_opc_P5C.Font = Font_Normal.Font
        End If
    End Sub
    Private Sub rb_v_1_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_v_1.CheckedChanged
        If rb_v_1.Checked Then
            rb_v_1.Font = Font_Selec2.Font
        Else

```

```

        rb_v_1.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_f_1_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_f_1.CheckedChanged
    If rb_f_1.Checked Then
        rb_f_1.Font = Font_Selec2.Font
    Else
        rb_f_1.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_v_2_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_v_2.CheckedChanged
    If rb_v_2.Checked Then
        rb_v_2.Font = Font_Selec2.Font
    Else
        rb_v_2.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_f_2_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_f_2.CheckedChanged
    If rb_f_2.Checked Then
        rb_f_2.Font = Font_Selec2.Font
    Else
        rb_f_2.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_v_3_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_v_3.CheckedChanged
    If rb_v_3.Checked Then
        rb_v_3.Font = Font_Selec2.Font
    Else
        rb_v_3.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_f_3_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_f_3.CheckedChanged
    If rb_f_3.Checked Then
        rb_f_3.Font = Font_Selec2.Font
    Else
        rb_f_3.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_v_4_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_v_4.CheckedChanged
    If rb_v_4.Checked Then
        rb_v_4.Font = Font_Selec2.Font
    Else
        rb_v_4.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_f_4_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_f_4.CheckedChanged
    If rb_f_4.Checked Then
        rb_f_4.Font = Font_Selec2.Font
    Else
        rb_f_4.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_v_5_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_v_5.CheckedChanged
    If rb_v_5.Checked Then
        rb_v_5.Font = Font_Selec2.Font
    Else
        rb_v_5.Font = Font_Normal.Font
    End If
End Sub
Private Sub rb_f_5_CheckedChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rb_f_5.CheckedChanged
    If rb_f_5.Checked Then
        rb_f_5.Font = Font_Selec2.Font
    Else
        rb_f_5.Font = Font_Normal.Font
    End If
End Sub

```

```

        End If

    End Sub
    Private Function Verificar_Datos()
        If Time_Finished = True Then
            Return True
        End If
        If Num_Preg_Opc >= 0 Then
            If Num_Preg_Opc >= 1 Then
                If Not RB_opc_P1A.Checked And Not RB_opc_P1B.Checked And Not RB_opc_P1C.Checked
Then
                    MsgBox("No se ha seleccionado ninguna opcion en " & _
                        vbCrLf & "Pregunta 1 de Selección Múltiple", MsgBoxStyle.Exclamation,
"EduCienSis")

                    Oculta_Paneles()
                    pan_opc_1.Visible = True
                    Return False
                End If
            End If
            If Num_Preg_Opc >= 2 Then
                If Not RB_opc_P2A.Checked And Not RB_opc_P2B.Checked And Not RB_opc_P2C.Checked
Then
                    MsgBox("No se ha seleccionado ninguna opcion en " & _
                        vbCrLf & "Pregunta 2 de Selección Múltiple", MsgBoxStyle.Exclamation,
"EduCienSis")

                    Oculta_Paneles()
                    pan_opc_1.Visible = True
                    Return False
                End If
            End If
            If Num_Preg_Opc >= 3 Then
                If Not RB_opc_P3A.Checked And Not RB_opc_P3B.Checked And Not RB_opc_P3C.Checked
Then
                    MsgBox("No se ha seleccionado ninguna opcion en " & _
                        vbCrLf & "Pregunta 3 de Selección Múltiple", MsgBoxStyle.Exclamation,
"EduCienSis")

                    Oculta_Paneles()
                    pan_opc_1.Visible = True
                    Return False
                End If
            End If
            If Num_Preg_Opc >= 4 Then
                If Not RB_opc_P4A.Checked And Not RB_opc_P4B.Checked And Not RB_opc_P4C.Checked
Then
                    MsgBox("No se ha seleccionado ninguna opcion en " & _
                        vbCrLf & "Pregunta 4 de Selección Múltiple", MsgBoxStyle.Exclamation,
"EduCienSis")

                    Oculta_Paneles()
                    pan_opc_2.Visible = True
                    Return False
                End If
            End If
            If Num_Preg_Opc >= 5 Then
                If Not RB_opc_P5A.Checked And Not RB_opc_P5B.Checked And Not RB_opc_P5C.Checked
Then
                    MsgBox("No se ha seleccionado ninguna opcion en " & _
                        vbCrLf & "Pregunta 5 de Selección Múltiple", MsgBoxStyle.Exclamation,
"EduCienSis")

                    Oculta_Paneles()
                    pan_opc_2.Visible = True
                    Return False
                End If
            End If
        End If
        If Num_Preg_FV >= 0 Then
            If Num_Preg_FV >= 1 Then
                If Not rb_v_1.Checked And Not rb_f_1.Checked Then
                    MsgBox("No se ha seleccionado ninguna opcion en " & _
                        vbCrLf & "Pregunta 1 de Verdadero y Falso", MsgBoxStyle.Exclamation,
"EduCienSis")

                    Oculta_Paneles()
                    pan_fv.Visible = True
                    Return False
                End If
            End If
        End If
    End Function

```

```

        End If
    End If
    If Num_Preg_FV >= 2 Then
        If Not rb_v_2.Checked And Not rb_f_2.Checked Then
            MsgBox("No se ha seleccionado ninguna opcion en " & _
                vbCrLf & "Pregunta 2 de Verdadero y Falso", MsgBoxStyle.Exclamation,
"EduCienSis")
                Oculta_Paneles()
                pan_fv.Visible = True
                Return False
        End If
    End If
    If Num_Preg_FV >= 3 Then
        If Not rb_v_3.Checked And Not rb_f_3.Checked Then
            MsgBox("No se ha seleccionado ninguna opcion en " & _
                vbCrLf & "Pregunta 3 de Verdadero y Falso", MsgBoxStyle.Exclamation,
"EduCienSis")
                Oculta_Paneles()
                pan_fv.Visible = True
                Return False
        End If
    End If
    If Num_Preg_FV >= 4 Then
        If Not rb_v_4.Checked And Not rb_f_4.Checked Then
            MsgBox("No se ha seleccionado ninguna opcion en " & _
                vbCrLf & "Pregunta 4 de Verdadero y Falso", MsgBoxStyle.Exclamation,
"EduCienSis")
                Oculta_Paneles()
                pan_fv.Visible = True
                Return False
        End If
    End If
    If Num_Preg_FV >= 5 Then
        If Not rb_v_5.Checked And Not rb_f_5.Checked Then
            MsgBox("No se ha seleccionado ninguna opcion en " & _
                vbCrLf & "Pregunta 5 de Verdadero y Falso", MsgBoxStyle.Exclamation,
"EduCienSis")
                Oculta_Paneles()
                pan_fv.Visible = True
                Return False
        End If
    End If
    If Num_Preg_Par > 0 Then
        Dim texto As String
        If Num_Preg_Par >= 1 Then
            texto = cmb_par_1.Text
            If texto = cmb_par_6.Text Then
                MsgBox("No pueden haber dos respuestas iguales en la " & _
                    vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
                Oculta_Paneles()
                pan_par.Visible = True
                Return False
            End If
        End If
        If Num_Preg_Par >= 2 Then
            texto = cmb_par_2.Text
            If texto = cmb_par_1.Text Then
                MsgBox("No pueden haber dos respuestas iguales en la " & _
                    vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
                Oculta_Paneles()
                pan_par.Visible = True
                Return False
            End If
            If texto = cmb_par_6.Text Then
                MsgBox("No pueden haber dos respuestas iguales en la " & _
                    vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
                Oculta_Paneles()
                pan_par.Visible = True
                Return False
            End If
        End If
        If Num_Preg_Par >= 3 Then
    
```



```

texto = cmb_par_3.Text
If texto = cmb_par_1.Text Then
    MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
    Oculta_Paneles()
    pan_par.Visible = True
    Return False
End If
If texto = cmb_par_2.Text Then
    MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
    Oculta_Paneles()
    pan_par.Visible = True
    Return False
End If
If texto = cmb_par_6.Text Then
    MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
    Oculta_Paneles()
    pan_par.Visible = True
    Return False
End If
End If
If Num_Preg_Par >= 4 Then
    texto = cmb_par_4.Text
    If texto = cmb_par_1.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
    If texto = cmb_par_2.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
    If texto = cmb_par_3.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
    If texto = cmb_par_6.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
End If
If Num_Preg_Par >= 5 Then
    texto = cmb_par_5.Text
    If texto = cmb_par_1.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
    If texto = cmb_par_2.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
    If texto = cmb_par_3.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")

```

```

        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
    If texto = cmb_par_4.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
    If texto = cmb_par_6.Text Then
        MsgBox("No pueden haber dos respuestas iguales en la " & _
vbCrLf & "Sección de Parentesis", MsgBoxStyle.Exclamation, "EduCienSis")
        Oculta_Paneles()
        pan_par.Visible = True
        Return False
    End If
End If
End If

Return True
End Function
Private Function Calificar()
    TimSeg.Stop()
    lbl_aciertos_opc.Text = ""
    lbl_aciertos_vf.Text = ""
    lbl_aciertos_par.Text = ""

    lbl_per_opc.Text = ""
    lbl_per_vf.Text = ""
    lbl_per_par.Text = ""

    Dim Puntos_Aqui, Puntos_Aqui_Aqui, Total As Integer

    Total = 0
    Puntos_Aqui_Aqui = 0
    Puntos_Aqui = 0

    If Num_Preg_Opc > 0 And Num_Preg_FV = 0 And Num_Preg_Par = 0 Then
        Tab_Resumen.TabPages(2).Dispose()
        Tab_Resumen.TabPages(2).Dispose()
    End If
    If Num_Preg_Opc = 0 And Num_Preg_FV > 1 And Num_Preg_Par = 0 Then
        Tab_Resumen.TabPages(1).Dispose()
        Tab_Resumen.TabPages(2).Dispose()
    End If
    If Num_Preg_Opc = 0 And Num_Preg_FV = 0 And Num_Preg_Par > 1 Then
        Tab_Resumen.TabPages(1).Dispose()
        Tab_Resumen.TabPages(1).Dispose()
    End If
    'con 2
    If Num_Preg_Opc > 1 And Num_Preg_FV > 1 And Num_Preg_Par = 0 Then
        Tab_Resumen.TabPages(3).Dispose()
    End If
    If Num_Preg_Opc > 1 And Num_Preg_FV = 0 And Num_Preg_Par > 1 Then
        Tab_Resumen.TabPages(2).Dispose()
    End If
    If Num_Preg_Opc = 0 And Num_Preg_FV > 1 And Num_Preg_Par > 1 Then
        Tab_Resumen.TabPages(1).Dispose()
    End If

    If Num_Preg_Opc > 0 Then
        Puntos_Aqui = 0
        If Num_Preg_Opc >= 1 Then
            Puntos_Aqui_Aqui = 0
            If RB_opc_P1A.Checked Then
                lbl_opc_s_p1.Text = RB_opc_P1A.Text
            End If
            If RB_opc_P1B.Checked Then
                lbl_opc_s_p1.Text = RB_opc_P1B.Text
            End If
            If RB_opc_P1C.Checked Then

```

```

        lbl_opc_s_p1.Text = RB_opc_P1C.Text
    End If

    If lbl_opc_c_p1.Text = "A" And RB_opc_P1A.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p1.Text = "B" And RB_opc_P1B.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p1.Text = "C" And RB_opc_P1C.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If

    If Puntos_Aqui_Aqui > 0 Then
        Total += 1
        lbl_opc_c_p1.Text = ""
        pb_opc_b1.Visible = True
    Else
        pb_opc_m1.Visible = True
        lbl_opc_s_p1.ForeColor = System.Drawing.Color.Red
        If lbl_opc_c_p1.Text = "A" Then
            lbl_opc_c_p1.Text = RB_opc_P1A.Text
        End If
        If lbl_opc_c_p1.Text = "B" Then
            lbl_opc_c_p1.Text = RB_opc_P1B.Text
        End If
        If lbl_opc_c_p1.Text = "C" Then
            lbl_opc_c_p1.Text = RB_opc_P1C.Text
        End If
    End If
End If

If Num_Preg_Opc >= 2 Then
    Puntos_Aqui_Aqui = 0
    If RB_opc_P2A.Checked Then
        lbl_opc_s_p2.Text = RB_opc_P2A.Text
    End If
    If RB_opc_P2B.Checked Then
        lbl_opc_s_p2.Text = RB_opc_P2B.Text
    End If
    If RB_opc_P2C.Checked Then
        lbl_opc_s_p2.Text = RB_opc_P2C.Text
    End If

    If lbl_opc_c_p2.Text = "A" And RB_opc_P2A.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p2.Text = "B" And RB_opc_P2B.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p2.Text = "C" And RB_opc_P2C.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If

    If Puntos_Aqui_Aqui > 0 Then
        Total += 1
        lbl_opc_c_p2.Text = ""
        pb_opc_b2.Visible = True
    Else
        pb_opc_m2.Visible = True
        lbl_opc_s_p2.ForeColor = System.Drawing.Color.Red
        If lbl_opc_c_p2.Text = "A" Then
            lbl_opc_c_p2.Text = RB_opc_P2A.Text
        End If
        If lbl_opc_c_p2.Text = "B" Then
            lbl_opc_c_p2.Text = RB_opc_P2B.Text
        End If
    End If
End If

```

```

        If lbl_opc_c_p2.Text = "C" Then
            lbl_opc_c_p2.Text = RB_opc_P2C.Text
        End If
    End If
End If

If Num_Preg_Opc >= 3 Then
    Puntos_Aqui_Aqui = 0
    If RB_opc_P3A.Checked Then
        lbl_opc_s_p3.Text = RB_opc_P3A.Text
    End If
    If RB_opc_P3B.Checked Then
        lbl_opc_s_p3.Text = RB_opc_P3B.Text
    End If
    If RB_opc_P3C.Checked Then
        lbl_opc_s_p3.Text = RB_opc_P3C.Text
    End If

    If lbl_opc_c_p3.Text = "A" And RB_opc_P3A.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p3.Text = "B" And RB_opc_P3B.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p3.Text = "C" And RB_opc_P3C.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If

    If Puntos_Aqui_Aqui > 0 Then
        Total += 1
        lbl_opc_c_p3.Text = ""
        pb_opc_b3.Visible = True
    Else
        pb_opc_m3.Visible = True
        lbl_opc_s_p3.ForeColor = System.Drawing.Color.Red
        If lbl_opc_c_p3.Text = "A" Then
            lbl_opc_c_p3.Text = RB_opc_P3A.Text
        End If
        If lbl_opc_c_p3.Text = "B" Then
            lbl_opc_c_p3.Text = RB_opc_P3B.Text
        End If
        If lbl_opc_c_p3.Text = "C" Then
            lbl_opc_c_p3.Text = RB_opc_P3C.Text
        End If
    End If
End If

If Num_Preg_Opc >= 4 Then
    Puntos_Aqui_Aqui = 0
    If RB_opc_P4A.Checked Then
        lbl_opc_s_p4.Text = RB_opc_P4A.Text
    End If
    If RB_opc_P4B.Checked Then
        lbl_opc_s_p4.Text = RB_opc_P4B.Text
    End If
    If RB_opc_P4C.Checked Then
        lbl_opc_s_p4.Text = RB_opc_P4C.Text
    End If

    If lbl_opc_c_p4.Text = "A" And RB_opc_P4A.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p4.Text = "B" And RB_opc_P4B.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p4.Text = "C" And RB_opc_P4C.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
End If

```

```

End If

If Puntos_Aqui_Aqui > 0 Then
    Total += 1
    lbl_opc_c_p4.Text = ""
    pb_opc_b4.Visible = True
Else
    pb_opc_m4.Visible = True
    lbl_opc_s_p4.ForeColor = System.Drawing.Color.Red
    If lbl_opc_c_p4.Text = "A" Then
        lbl_opc_c_p4.Text = RB_opc_P4A.Text
    End If
    If lbl_opc_c_p4.Text = "B" Then
        lbl_opc_c_p4.Text = RB_opc_P4B.Text
    End If
    If lbl_opc_c_p4.Text = "C" Then
        lbl_opc_c_p4.Text = RB_opc_P4C.Text
    End If
End If
End If

If Num_Preg_Opc >= 5 Then
    Puntos_Aqui_Aqui = 0
    If RB_opc_P5A.Checked Then
        lbl_opc_s_p5.Text = RB_opc_P5A.Text
    End If
    If RB_opc_P5B.Checked Then
        lbl_opc_s_p5.Text = RB_opc_P5B.Text
    End If
    If RB_opc_P5C.Checked Then
        lbl_opc_s_p5.Text = RB_opc_P5C.Text
    End If

    If lbl_opc_c_p5.Text = "A" And RB_opc_P5A.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p5.Text = "B" And RB_opc_P5B.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If
    If lbl_opc_c_p5.Text = "C" And RB_opc_P5C.Checked Then
        Puntos_Aqui += 1
        Puntos_Aqui_Aqui += 1
    End If

    If Puntos_Aqui_Aqui > 0 Then
        Total += 1
        lbl_opc_c_p5.Text = ""
        pb_opc_b5.Visible = True
    Else
        pb_opc_m5.Visible = True
        lbl_opc_s_p5.ForeColor = System.Drawing.Color.Red
        If lbl_opc_c_p5.Text = "A" Then
            lbl_opc_c_p5.Text = RB_opc_P5A.Text
        End If
        If lbl_opc_c_p5.Text = "B" Then
            lbl_opc_c_p5.Text = RB_opc_P5B.Text
        End If
        If lbl_opc_c_p5.Text = "C" Then
            lbl_opc_c_p5.Text = RB_opc_P5C.Text
        End If
    End If
End If
lbl_opc_buenas.Text = "Buenas: " & Puntos_Aqui
lbl_aciertos_opc.Text = Puntos_Aqui
lbl_per_opc.Text = Round((Puntos_Aqui / (Num_Preg_Opc + Num_Preg_FV +
Num_Preg_Par)) * 100, 1) & "%"

End If
'-- FV --
If Num_Preg_FV > 0 Then
    Puntos_Aqui = 0

```

```

If Num_Preg_FV >= 1 Then
    If rb_v_1.Checked Then
        lbl_fv_res_1.Text = "Verdadero"
    Else
        lbl_fv_res_1.Text = "Falso"
    End If
    If lbl_txt_c1.Text = "V" And rb_v_1.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_1.ForeColor = System.Drawing.Color.Green
        pb_fv_b1.Visible = True
    End If
    If lbl_txt_c1.Text = "F" And rb_f_1.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_1.ForeColor = System.Drawing.Color.Green
        pb_fv_b1.Visible = True
    End If

    If lbl_txt_c1.Text = "V" And rb_f_1.Checked Or _
    lbl_txt_c1.Text = "F" And rb_v_1.Checked Then
        pb_fv_m1.Visible = True
        lbl_fv_res_1.ForeColor = System.Drawing.Color.Red
    End If
End If
If Num_Preg_FV >= 2 Then
    If rb_v_2.Checked Then
        lbl_fv_res_2.Text = "Verdadero"
    Else
        lbl_fv_res_2.Text = "Falso"
    End If
    If lbl_txt_c2.Text = "V" And rb_v_2.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_2.ForeColor = System.Drawing.Color.Green
        pb_fv_b2.Visible = True
    End If
    If lbl_txt_c2.Text = "F" And rb_f_2.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_2.ForeColor = System.Drawing.Color.Green
        pb_fv_b2.Visible = True
    End If
    If lbl_txt_c2.Text = "V" And rb_f_2.Checked Or _
    lbl_txt_c2.Text = "F" And rb_v_2.Checked Then
        pb_fv_m2.Visible = True
        lbl_fv_res_2.ForeColor = System.Drawing.Color.Red
    End If
End If
If Num_Preg_FV >= 3 Then
    If rb_v_3.Checked Then
        lbl_fv_res_3.Text = "Verdadero"
    Else
        lbl_fv_res_3.Text = "Falso"
    End If
    If lbl_txt_c3.Text = "V" And rb_v_3.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_3.ForeColor = System.Drawing.Color.Green
        pb_fv_b3.Visible = True
    End If
    If lbl_txt_c3.Text = "F" And rb_f_3.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_3.ForeColor = System.Drawing.Color.Green
        pb_fv_b3.Visible = True
    End If
    If lbl_txt_c3.Text = "V" And rb_f_3.Checked Or _
    lbl_txt_c3.Text = "F" And rb_v_3.Checked Then
        pb_fv_m3.Visible = True
        lbl_fv_res_3.ForeColor = System.Drawing.Color.Red
    End If
End If
End If

```

```

If Num_Preg_FV >= 4 Then
    If rb_v_4.Checked Then
        lbl_fv_res_4.Text = "Verdadero"
    Else
        lbl_fv_res_4.Text = "Falso"
    End If
    If lbl_txt_c4.Text = "V" And rb_v_4.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_4.ForeColor = System.Drawing.Color.Green
        pb_fv_b4.Visible = True
    End If
    If lbl_txt_c4.Text = "F" And rb_f_4.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_4.ForeColor = System.Drawing.Color.Green
        pb_fv_b4.Visible = True
    End If
    If lbl_txt_c4.Text = "V" And rb_f_4.Checked Or _
        lbl_txt_c4.Text = "F" And rb_v_4.Checked Then
        pb_fm4.Visible = True
        lbl_fv_res_4.ForeColor = System.Drawing.Color.Red
    End If
End If
If Num_Preg_FV >= 5 Then
    If rb_v_5.Checked Then
        lbl_fv_res_5.Text = "Verdadero"
    Else
        lbl_fv_res_5.Text = "Falso"
    End If
    If lbl_txt_c5.Text = "V" And rb_v_5.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_5.ForeColor = System.Drawing.Color.Green
        pb_fv_b5.Visible = True
    End If
    If lbl_txt_c5.Text = "F" And rb_f_5.Checked Then
        Puntos_Aqui += 1
        Total += 1
        lbl_fv_res_5.ForeColor = System.Drawing.Color.Green
        pb_fv_b5.Visible = True
    End If
    If lbl_txt_c5.Text = "V" And rb_f_5.Checked Or _
        lbl_txt_c5.Text = "F" And rb_v_5.Checked Then
        pb_fm5.Visible = True
        lbl_fv_res_5.ForeColor = System.Drawing.Color.Red
    End If
End If
lbl_vf_buenas.Text = "Buenas: " & Puntos_Aqui
lbl_aciertos_vf.Text = Puntos_Aqui
lbl_per_vf.Text = Round((Puntos_Aqui / (Num_Preg_Opc + Num_Preg_FV + Num_Preg_Par))
* 100, 1) & "%"
End If

'-- Parentesis --
If Num_Preg_Par > 0 Then
    Puntos_Aqui = 0
    If Num_Preg_Par >= 1 Then
        If cmb_par_1.SelectedIndex = 0 Then
            lbl_par_rs1.Text = "( )"
        Else
            lbl_par_rs1.Text = "(" & cmb_par_1.Text & ")"
        End If
        If lbl_par_rc1.Text = cmb_par_1.Text Or _
            (lbl_par_rc1.Text = "VACIO" And cmb_par_1.SelectedIndex = 0) Then
            If lbl_par_rc1.Text = cmb_par_1.Text Then
                Puntos_Aqui += 1
                Total += 1
            End If
            lbl_par_rc1.Text = ""
            pb_par_1.Visible = True
        Else
            pb_par_1.Visible = False
        End If
    End If
End If

```

```

        If lbl_par_rc1.Text = "VACIO" Then
            lbl_par_rc1.Text = "( )"
        Else
            lbl_par_rc1.Text = "(" & lbl_par_rc1.Text & ")"
        End If
    End If
End If
If Num_Preg_Par >= 2 Then
    If cmb_par_2.SelectedIndex = 0 Then
        lbl_par_rs2.Text = "( )"
    Else
        lbl_par_rs2.Text = "(" & cmb_par_2.Text & ")"
    End If
    If lbl_par_rc2.Text = cmb_par_2.Text Or _
        (lbl_par_rc2.Text = "VACIO" And cmb_par_2.SelectedIndex = 0) Then
        If lbl_par_rc2.Text = cmb_par_2.Text Then
            Puntos_Aqui += 1
            Total += 1
        End If
        lbl_par_rc2.Text = ""
        pb_par_2.Visible = True
    Else
        pb_par_2.Visible = False
        If lbl_par_rc2.Text = "VACIO" Then
            lbl_par_rc2.Text = "( )"
        Else
            lbl_par_rc2.Text = "(" & lbl_par_rc2.Text & ")"
        End If
    End If
End If
If Num_Preg_Par >= 3 Then
    If cmb_par_3.SelectedIndex = 0 Then
        lbl_par_rs3.Text = "( )"
    Else
        lbl_par_rs3.Text = "(" & cmb_par_3.Text & ")"
    End If
    If lbl_par_rc3.Text = cmb_par_3.Text Or _
        (lbl_par_rc3.Text = "VACIO" And cmb_par_3.SelectedIndex = 0) Then
        If lbl_par_rc3.Text = cmb_par_3.Text Then
            Puntos_Aqui += 1
            Total += 1
        End If
        lbl_par_rc3.Text = ""
        pb_par_3.Visible = True
    Else
        pb_par_3.Visible = False
        If lbl_par_rc3.Text = "VACIO" Then
            lbl_par_rc3.Text = "( )"
        Else
            lbl_par_rc3.Text = "(" & lbl_par_rc3.Text & ")"
        End If
    End If
End If
If Num_Preg_Par >= 4 Then
    If cmb_par_4.SelectedIndex = 0 Then
        lbl_par_rs4.Text = "( )"
    Else
        lbl_par_rs4.Text = "(" & cmb_par_4.Text & ")"
    End If
    If lbl_par_rc4.Text = cmb_par_4.Text Or _
        (lbl_par_rc4.Text = "VACIO" And cmb_par_4.SelectedIndex = 0) Then
        If lbl_par_rc4.Text = cmb_par_4.Text Then
            Puntos_Aqui += 1
            Total += 1
        End If
        lbl_par_rc4.Text = ""
        pb_par_4.Visible = True
    Else
        pb_par_4.Visible = False
        If lbl_par_rc4.Text = "VACIO" Then
            lbl_par_rc4.Text = "( )"
        Else
            lbl_par_rc4.Text = "(" & lbl_par_rc4.Text & ")"
        End If
    End If
End If

```



```

        End If
    End If
End If
If Num_Preg_Par >= 5 Then
    If cmb_par_5.SelectedIndex = 0 Then
        lbl_par_rs5.Text = "( )"
    Else
        lbl_par_rs5.Text = "(" & cmb_par_5.Text & ")"
    End If
    If lbl_par_rc5.Text = cmb_par_5.Text Or _
        (lbl_par_rc5.Text = "VACIO" And cmb_par_5.SelectedIndex = 0) Then
        If lbl_par_rc5.Text = cmb_par_5.Text Then
            Puntos_Aqui += 1
            Total += 1
        End If
        lbl_par_rc5.Text = ""
        pb_par_5.Visible = True
    Else
        pb_par_5.Visible = False
        If lbl_par_rc5.Text = "VACIO" Then
            lbl_par_rc5.Text = "( )"
        Else
            lbl_par_rc5.Text = "(" & lbl_par_rc5.Text & ")"
        End If
    End If
End If
'-- La 6
If cmb_par_6.SelectedIndex = 0 Then
    lbl_par_rs6.Text = "( )"
Else
    lbl_par_rs6.Text = "(" & cmb_par_6.Text & ")"
End If
If lbl_par_rc6.Text = cmb_par_6.Text Or _
    (lbl_par_rc6.Text = "VACIO" And cmb_par_6.SelectedIndex = 0) Then
    If lbl_par_rc6.Text = cmb_par_6.Text Then
        Puntos_Aqui += 1
        Total += 1
    End If
    lbl_par_rc6.Text = ""
    pb_par_6.Visible = True
Else
    pb_par_6.Visible = False
    If lbl_par_rc6.Text = "VACIO" Then
        lbl_par_rc6.Text = "( )"
    Else
        lbl_par_rc6.Text = "(" & lbl_par_rc6.Text & ")"
    End If
End If
'-- fin de la 6
lbl_par_buenas.Text = "Buenas: " & Puntos_Aqui
lbl_aciertos_par.Text = Puntos_Aqui
lbl_per_par.Text = Round((Puntos_Aqui / (Num_Preg_Opc + Num_Preg_FV +
Num_Preg_Par)) * 100, 1) & "%"

    End If
    lbl_aciertos_tot.Text = Total & " de " & (Num_Preg_Opc + Num_Preg_FV +
Num_Preg_Par).ToString
    lbl_per_tot.Text = Round((Total / (Num_Preg_Opc + Num_Preg_FV + Num_Preg_Par)) * 100,
1) & "%"
    La_Nota = Round((Total / (Num_Preg_Opc + Num_Preg_FV + Num_Preg_Par)) * 10, 2)
    lbl_nota.Text = La_Nota.ToString
End Function
Public Function RandomNumber(ByVal MaxNumber As Integer, _
Optional ByVal MinNumber As Integer = 0) As Integer

    'initialize random number generator
    Dim r As New Random(System.DateTime.Now.Millisecond)

    'if passed incorrect arguments, swap them
    'can also throw exception or return 0

    If MinNumber > MaxNumber Then
        Dim t As Integer = MinNumber

```

```

        MinNumber = MaxNumber
        MaxNumber = t
    End If

    Return r.Next(MinNumber, MaxNumber)

End Function
Private Function No_esta(ByVal Numero As Integer, ByVal Max As Integer, ByVal Donde As
String)
    Dim i As Integer = 0
    Dim esta As Boolean
    esta = False
    If Donde = "OPC" Then
        For i = 0 To Max
            If IDs_Opc(i) = Numero Then
                esta = True
            End If
        Next
        Return esta
    End If
    If Donde = "FV" Then
        For i = 0 To Max
            If IDs_FV(i) = Numero Then
                esta = True
            End If
        Next
        Return esta
    End If

    Return True
End Function
Private Function Pos_de_Resp(ByVal index As Integer)
    Dim MyDataSet As New DataSet

    With Adapter.SelectCommand
        .CommandText = "SELECT * FROM respuestas_parentesis WHERE id_evaluacion=" & Id_EVAL
        .Connection = MyCon
    End With

    Try
        MyCon.Open()
        Adapter.Fill(MyDataSet, "RRR")
        MyCon.Close()
    Catch ex As Exception
        MessageBox.Show("Se ha producido la siguiente excepción:" _
            + vbCrLf + vbCrLf + ex.Message, "Mensaje de error")
        Me.Cursor = Windows.Forms.Cursors.Default
        Panel_open = False
        Me.Close()
    End Try

    Dim i As Integer
    For i = 0 To MyDataSet.Tables("RRR").Rows.Count - 1
        If MyDataSet.Tables("RRR").Rows(i).Item("id_pregunta") = index Then
            Return i
        End If
    Next
End Function
Private Sub frm_app_evaluacion_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed
    Dim fv As New frm_app_intermedio
    fv.Show()
    Me.Dispose(True)
End Sub
Public Function GetRandomNumber(Optional ByVal Low As Integer = 1, Optional ByVal High As
Integer = 100) As Integer
    ' Returns a random number,
    ' between the optional Low and High parameters
    Return objRandom.Next(Low, High + 1)
End Function
Private Sub TimSeg_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
TimSeg.Tick
    If Segs_Max > 0 Then

```

```

        Segs_Max -= 1
    End If
    If Segs_Max = 0 Then
        If Min_Max = 0 Then
            TimSeg.Stop()
            Time_Finished = True
            Finalizar()
        Else
            Segs_Max = 60
            Min_Max -= 1
        End If
    End If
    Dim sm, ss As String
    If Min_Max < 10 Then
        sm = "0"
    End If

    If Segs_Max < 10 Then
        ss = "0"
    End If

    lbl_tick.Text = sm & Min_Max & " : " & ss & Segs_Max
    lbl_time.Width = Width_Orig * ((Min_Max * 60 + Segs_Max) / TT)

End Sub
Private Sub B_Sig_Par_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Sig_Par.Click
    Finalizar()
End Sub
Private Sub B_Atras01_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Back_Par.Click
    If Num_Preg_Opc > 3 And Num_Preg_FV = 0 Then
        Oculta_Paneles()
        pan_opc_2.Visible = True
    End If

    If Num_Preg_Opc <= 3 And Num_Preg_FV = 0 Then
        Oculta_Paneles()
        pan_opc_1.Visible = True
    End If

    If Num_Preg_FV > 0 Then
        Oculta_Paneles()
        pan_fv.Visible = True
    End If
End Sub
Private Sub B_Back_FV_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Back_FV.Click
    If Num_Preg_Opc > 3 Then
        Oculta_Paneles()
        pan_opc_2.Visible = True
    Else
        Oculta_Paneles()
        pan_opc_1.Visible = True
    End If
End Sub
Private Sub B_Next_FV_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Next_FV.Click
    If Num_Preg_Par = 0 Then
        Finalizar()
    Else
        Oculta_Paneles()
        pan_par.Visible = True
    End If
End Sub
Private Sub B_Next_Opc1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Next_Opc1.Click
    If Num_Preg_Opc <= 3 And Num_Preg_FV = 0 And Num_Preg_Par = 0 Then
        Finalizar()
    End If

    If Num_Preg_FV > 0 And Num_Preg_Opc <= 3 Then
        Oculta_Paneles()
    End If

```

```

        pan_fv.Visible = True
    End If

    If Num_Preg_Par > 0 And Num_Preg_Opc <= 3 And Num_Preg_FV = 0 Then
        Oculata_Paneles()
        pan_par.Visible = True
    End If

    If Num_Preg_Opc > 3 Then
        Oculata_Paneles()
        pan_opc_2.Visible = True
    End If
End Sub
Private Sub B_Next_Opc2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Next_Opc2.Click
    If Num_Preg_FV = 0 And Num_Preg_Par = 0 Then
        Finalizar()
    End If
    If Num_Preg_FV > 0 Then
        Oculata_Paneles()
        pan_fv.Visible = True
    End If
    If Num_Preg_FV = 0 And Num_Preg_Par > 0 Then
        Oculata_Paneles()
        pan_par.Visible = True
    End If
End Sub
Private Sub B_Back_Opc2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles B_Back_Opc2.Click
    Oculata_Paneles()
    pan_opc_1.Visible = True
End Sub
End Class

```