LISTING PROGRAM

1. Module1

Imports System.Data.Odbc
Imports System.Data
Imports System.Data.SqlClient
Imports MySql.Data.MySqlClient
Module Module1

Public userid As String
Public level As String
Public conn As odbcConnection
Public cmd As OdbcCommand
Public rd As OdbcDataReader
Public cmd2 As odbcCommand = Nothing
Public rd2 As OdbcDataReader = Nothing
Public cmd3 As OdbcCommand = Nothing
Public rd3 As OdbcDataReader = Nothing
Public cmd_1 As odbcCommand = Nothing
Public rd_1 As odbcDataReader = Nothing
Public cmd_2 As odbcCommand = Nothing
Public rd_2 As odbcDataReader = Nothing
Public cmd_3 As odbcCommand = Nothing
Public rd_3 As odbcDataReader = Nothing
Public cmd_4 As odbcCommand = Nothing
Public da As odbcDataAdapter = Nothing
Public connString As String

Sub getConnString()
Try
conn = NewOdbcConnection("DSN=aasuransi;MultipleActiveResultSets=True;")
Catch ex As Exception
MsgBox(ex.Message)
End Try
End Sub

Public Function openConn() As odbcConnection
If Not conn Is Nothing Then
conn.Close()
End If
Try
conn.Open()
Catch ex As Exception
MessageBox.Show("Error : " & ex.Message)
End Try
Return conn
End Function
Public Function closeConn() As odbcConnection
Try
    conn.Close()
Catch ex As Exception
    MessageBox.Show("Error : " & ex.Message)
End Try
Return conn
End Function

Function Eksekusi(ByVal sql As String) As Integer
Dim hasil As Integer
Try
    cmd = New odbcCommand(sql, openConn())
    hasil = cmd.ExecuteNonQuery()
    closeConn()
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try
Return hasil
End Function

Function GetData(ByVal dt As DataTable, ByVal sql As String) As DataTable
Try
    cmd = New odbcCommand(sql, openConn())
    da = New odbcDataAdapter(cmd)
    da.Fill(dt)
    closeConn()
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try
Return dt
End Function

End Module

2. **frm_ahp**

    Imports System.Data.Odbc
    Imports System.Data.OleDb
    Imports System.Data.SqlClient
    Imports MySql.Data.MySqlClient
    Public Class frm_ahp
    Dim i As Integer
    Dim insertquery As String
    Dim deletequery As String
    Dim jum_kriteria As String
    Dim jum_matrix_asuransi As String
    Dim hasil As Double
    Dim hasil_delete As Integer

Dim hasil_1 As Double
Dim hasil_2 As Double
Dim hasil_3 As Double
Dim hasil_4 As Double
Dim hasil_5 As Double
Dim hasil_6 As Double

Sub penilaian_ahp()
Dim oWatch As New Stopwatch
oWatch.Start()
Try
openConn()
    cmd = New OdbcCommand("SELECT COUNT(*) AS jum_kriteria FROM kriteria order by id_kriteria ASC", conn)
    rd = cmd.ExecuteReader()
    rd.Read()
    jum_kriteria = rd.Item("jum_kriteria")
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try

Try
openConn()
    cmd = New OdbcCommand("SELECT * FROM kriteria order by id_kriteria ASC", conn)
    rd = cmd.ExecuteReader()
    While rd.Read
        cmd2 = New OdbcCommand("SELECT SUM(hasil) AS hasil_bobot FROM bobot_perbandingan where id_kriteria2='" & rd.Item("id_kriteria") & '''', conn)
        rd2 = cmd2.ExecuteReader()
        rd2.Read()
        insertquery = ("insert into bobot_ahpvalues('','" & rd.Item("id_kriteria") & ''' & rd2.Item("hasil_bobot") & '''")")
        cmd2 = New OdbcCommand(insertquery, conn)
        hasil = cmd2.ExecuteNonQuery
    End While
    closeConn()
    MessageBox.Show(ex.Message)
End Try

Try
openConn()
    cmd = New OdbcCommand("SELECT * FROM bobot_perbandingan order by id_kriteria ASC", conn)
    rd = cmd.ExecuteReader()
    While rd.Read
        cmd2 = New OdbcCommand("SELECT * FROM bobot_ahp where id_kriteria='" & rd.Item("id_kriteria2") & ''' order by id_kriteria ASC", conn)
rd2 = cmd2.ExecuteReader()
While rd2.Read()
    hasil = rd.Item("hasil") / rd2.Item("nilai_kriteria")
    insertquery = ("insert into total_bobotvalues(''," & rd.Item("id_kriteria1") & "," & rd.Item("id_kriteria2") & "," & hasil & ")")
    cmd2 = New OdbcCommand(insertquery, conn)
    hasil = cmd2.ExecuteNonQuery
End While
End While
closeConn()
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try

Try
    openConn()
    cmd = New OdbcCommand("SELECT * FROM kriteria order by id_kriteria ASC", conn)
    rd = cmd.ExecuteReader()
    While rd.Read
        cmd2 = New OdbcCommand("SELECT SUM(hasil_kriteria) AS hasil_kriteria FROM total_bobot where id_kriteria1='' & rd.Item("id_kriteria") & ",id_kriteria2 ASC", conn)
        rd2 = cmd2.ExecuteReader()
        rd2.Read()
        hasil = rd2.Item("hasil_kriteria") / jum_kriteria
        insertquery = ("insert into bobot_eigenvalues(''," & rd.Item("id_kriteria") & "," & hasil & ")")
        cmd2 = New OdbcCommand(insertquery, conn)
        hasil = cmd2.ExecuteNonQuery
    End While
    closeConn()
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try

Try
    openConn()
    cmd = New OdbcCommand("SELECT * FROM penilaian order by id_asuransi ASC", conn)
    rd = cmd.ExecuteReader()
    While rd.Read
        If (rd.Item("manfaat") = "Sangat Baik") Then
            hasil_1 = 5
        ElseIf (rd.Item("manfaat") = "Baik") Then
            hasil_1 = 4
        ElseIf (rd.Item("manfaat") = "Sedang") Then
            hasil_1 = 3
        ElseIf (rd.Item("manfaat") = "Kurang") Then
            hasil_1 = 2
        End If
    End While
End Try
hasil_1 = 2
ElseIf (rd.Item("manfaat") = "Sangat Kurang") Then
hasil_1 = 1
End If
If (rd.Item("premi") = "Sangat Baik") Then
hasil_2 = 5
ElseIf (rd.Item("premi") = "Baik") Then
hasil_2 = 4
ElseIf (rd.Item("premi") = "Sedang") Then
hasil_2 = 3
ElseIf (rd.Item("premi") = "Kurang") Then
hasil_2 = 2
ElseIf (rd.Item("premi") = "Sangat Kurang") Then
hasil_2 = 1
End If
If (rd.Item("masa_pertanggungan") = "Sangat Baik") Then
hasil_3 = 5
ElseIf (rd.Item("masa_pertanggungan") = "Baik") Then
hasil_3 = 4
ElseIf (rd.Item("masa_pertanggungan") = "Sedang") Then
hasil_3 = 3
ElseIf (rd.Item("masa_pertanggungan") = "Kurang") Then
hasil_3 = 2
ElseIf (rd.Item("masa_pertanggungan") = "Sangat Kurang") Then
hasil_3 = 1
End If
If (rd.Item("usia_masuk_tertanggung") = "Sangat Baik") Then
hasil_4 = 5
ElseIf (rd.Item("usia_masuk_tertanggung") = "Baik") Then
hasil_4 = 4
ElseIf (rd.Item("usia_masuk_tertanggung") = "Sedang") Then
hasil_4 = 3
ElseIf (rd.Item("usia_masuk_tertanggung") = "Kurang") Then
hasil_4 = 2
ElseIf (rd.Item("usia_masuk_tertanggung") = "Sangat Kurang") Then
hasil_4 = 1
End If
If (rd.Item("pembayaran_premi") = "Sangat Baik") Then
hasil_5 = 5
ElseIf (rd.Item("pembayaran_premi") = "Baik") Then
hasil_5 = 4
ElseIf (rd.Item("pembayaran_premi") = "Sedang") Then
hasil_5 = 3
ElseIf (rd.Item("pembayaran_premi") = "Kurang") Then
hasil_5 = 2
ElseIf (rd.Item("pembayaran_premi") = "Sangat Kurang") Then
hasil_5 = 1
End If
insertquery = ("insert into matrix_asuransivalue($id_asuransi$", " & rd.Item("id_asuransi") & "," & hasil_1 & "," & hasil_2 & "," & hasil_3 & "," & hasil_4 & "," & hasil_5 & ")"
)cmd2 = New OleDbCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try
Try
openConn()

Try
File = New OleDbCommand("SELECT * FROM kriteria order by id_kriteria ASC", conn)
rd = cmd.ExecuteReader()
While rd.Read
File2 = New OleDbCommand("SELECT * FROM matrix_asuransi order by id_asuransi ASC", conn)
rd2 = File2.ExecuteReader()
While rd2.Read()
File3 = New OleDbCommand("SELECT * FROM matrix_asuransi order by id_asuransi ASC", conn)
rd3 = File3.ExecuteReader()
While rd3.Read()
If rd.Item("id_kriteria") = 4 Then
hasil_1 = rd3.Item("matrix_manfaat") / rd2.Item("matrix_manfaat")
insertquery = ("insert into matrix_ahpvalue($id_asuransi$", rd2.Item("id_asuransi") & "," & rd3.Item("id_asuransi") & "," & rd2.Item("matrix_manfaat") & "," & rd3.Item("matrix_manfaat") & "," & hasil_1 & ")"
)cmd2 = New OleDbCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End If
If rd.Item("id_kriteria") = 5 Then
hasil_2 = rd3.Item("matrix_premi") / rd2.Item("matrix_premi")
insertquery = ("insert into matrix_ahpvalue($id_asuransi$", rd2.Item("id_asuransi") & "," & rd3.Item("id_asuransi") & "," & rd2.Item("matrix_premi") & "," & rd3.Item("matrix_premi") & "," & hasil_2 & ")"
)cmd2 = New OleDbCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End If
If rd.Item("id_kriteria") = 6 Then
hasil_3 = rd3.Item("matrix_masa") / rd2.Item("matrix_masa")
insertquery = ("insert into matrix_ahpvalue($id_asuransi$", rd2.Item("id_asuransi") & "," & rd3.Item("id_asuransi") & "," & rd2.Item("matrix_masa") & "," & rd3.Item("matrix_masa") & "," & hasil_3 & ")"
)cmd2 = New OleDbCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End If
cmd2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End If

If rd.Item("id_kriteria") = 7 Then
hasil_4 = rd3.Item("matrix_usia") / rd2.Item("matrix_usia")
insertquery = ("insert into matrix_ahpvalues(" & rd2.Item("id_asuransi") & "," & rd3.Item("id_asuransi") & "," & hasil_4 & "," & rd.Item("id_kriteria") & ")")
cmd2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End If
End While
End While
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()

cmd = New OdbcCommand("SELECT a.*,b.* FROM kriteria a,bobot_ahp b
where a.id_kriteria=b.id_kriteria order by a.id_kriteria ASC", conn)
r = cmd.ExecuteReader()
While r.Read
cmd2 = New OdbcCommand("SELECT * FROM asuransi order by id_asuransi
ASC", conn)
r2 = cmd2.ExecuteReader()
While r2.Read()

cmd3 = New OdbcCommand("SELECT SUM(bagi_matrix) AS total_matrix
FROM matrix_ahp where id_asuransi1=" & rd2.Item("id_asuransi") & "," & rd.Item("id_kriteria") & ")")
r3 = cmd3.ExecuteReader()
While r3.Read()
inserquery = ("insert into total_bagivalues(" & rd2.Item("id_asuransi") & "," & rd.Item("id_kriteria") & ")")
cmd2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End While

End Try
End While
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT a.*,b.* FROM kriteria a,bobot_ahp b where a.id_kriteria=b.id_kriteria order by a.id_kriteria ASC", conn)
rd = cmd.ExecuteReader()
While rd.Read
cmd2 = New OdbcCommand("SELECT * FROM matrix_ahp where id_kriteria=" & rd.Item("id_kriteria") & "", conn)
rd2 = cmd2.ExecuteReader()
While rd2.Read()
cmd3 = New OdbcCommand("SELECT * FROM total_bagi where id_asuransi=" & rd2.Item("id_asuransi") & "", conn)
rd3 = cmd3.ExecuteReader()
rd3.Read()
hasil_1 = rd2.Item("bagi_matrix") / rd3.Item("hasil_total_bagi")
insertquery = ("insert into total_perbandingan values(",",", & rd2.Item("id_asuransi1") & ",", & rd2.Item("id_asuransi2") & ",", & rd.Item("id_kriteria") & ",", & hasil_1 & ")")
cmd2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End While
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT COUNT(*) AS jum_matrix_asuransi FROM matrix_ahuransi", conn)
rd = cmd.ExecuteReader()
rd.Read()
jum_matrix_asuransi = rd.Item("jumlah_matrix_asuransi")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try
Try
openConn()
cmd = New OdbcCommand("SELECT a.*,b.* FROM kriteria a,bobot_ahp b where a.id_kriteria=b.id_kriteria order by a.id_kriteria ASC", conn)
rd = cmd.ExecuteReader()
While rd.Read
    cmd2 = New OdbcCommand("SELECT * FROM matrix_asuransi ORDER BY id_asuransi ASC", conn)
    rd2 = cmd2.ExecuteReader()
    While rd2.Read()
        cmd3 = New OdbcCommand("SELECT SUM(hasil_perbandingan) AS jumlah_perbandingan FROM total_perbandingan WHERE id_asuransi2 = " & rd2.Item("id_asuransi") & " and id_kriteria = " & rd.Item("id_kriteria") & "", conn)
        rd3 = cmd3.ExecuteReader()
        rd3.Read()
        hasil_1 = rd3.Item("jumlah_perbandingan") / jum_matrix_asuransi
        insertquery = ("insert into eigenfactorvalues(" & rd.Item("id_asuransi") & ""," & rd.Item("id_kriteria") & "," & rd.Item("id_kriteria") & "," & hasil_1 & ")")
        cmd2 = New OdbcCommand(insertquery, conn)
        hasil = cmd2.ExecuteNonQuery
        End While
    End While
End Try
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try

Try
    openConn()
    cmd = New OdbcCommand("SELECT a.*,b.* FROM asuransi a, penilaian b WHERE a.id_asuransi = b.id_asuransi ORDER BY a.id_asuransi ASC", conn)
    rd = cmd.ExecuteReader()
    While rd.Read
        cmd2 = New OdbcCommand("SELECT * FROM eigenfactor WHERE id_kriteria = " & rd.Item("id_kriteria") & ",", conn)
        rd2 = cmd2.ExecuteReader()
        While rd2.Read()
            hasil_1 = rd2.Item("hasil_eigenfactor") * rd.Item("nilai_eigen")
            insertquery = ("insert into total_eigenvalues(" & rd.Item("id_kriteria") & "," & rd.Item("id_asuransi") & "," & hasil_1 & ")")
            cmd2 = New OdbcCommand(insertquery, conn)
            hasil = cmd2.ExecuteNonQuery
            End While
        End While
    End Try
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try

Try
    openConn()
    cmd = New OdbcCommand("SELECT * FROM bobot_eigen ORDER BY id_kriteria ASC", conn)
    rd = cmd.ExecuteReader()
    While rd.Read
        cmd2 = New OdbcCommand("SELECT * FROM eigenfactor WHERE id_kriteria = " & rd.Item("id_kriteria") & "", conn)
        rd2 = cmd2.ExecuteReader()
        While rd2.Read()
            hasil_1 = rd2.Item("hasil_eigenfactor") * rd.Item("nilai_eigen")
            insertquery = ("insert into total_eigenvalues(" " & rd.Item("id_kriteria") & "," & hasil_1 & ")")
            cmd2 = New OdbcCommand(insertquery, conn)
            hasil = cmd2.ExecuteNonQuery
            End While
        End While
    End Try
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try
rd = cmd.ExecuteReader()
While rd.Read
    cmd2 = New OdbcCommand("SELECT SUM(nilai_eigen) AS hasil_ahp FROM total_eigen WHERE id_asuransi='" & rd.Item("id_asuransi") & ' order by id_asuransi ASC", conn)
    rd2 = cmd2.ExecuteReader()
    While rd2.Read()
        insertquery = ("insert into hasil_ahp values('','" & rd.Item("id_asuransi") & ' ' & rd2.Item("hasil_ahp") & '"")
        cmd2 = New OdbcCommand(insertquery, conn)
        hasil = cmd2.ExecuteNonQuery
    End While
    End While
    closeConn()
Catch ex As Exception
    MessageBox.Show(ex.Message)
End Try
oWatch.Stop()
Label6.Text = " " & oWatch.ElapsedMilliseconds.ToString & " ms"
End Sub

Sub isisDgv()
    Dim dt As New DataTable
    GetData(dt, "select a.nama_asuransi,b.hasil_ahp from asuransi a, hasil_ahp b WHERE a.id_asuransi=b.id_asuransi order by b.hasil_ahp DESC")
    dghasil.DataSource = dt
    dghasil.Columns(0).HeaderText = "Nama Asuransi"
    dghasil.Columns(1).HeaderText = "Hasil AHP"
    dghasil.Columns(0).Width = 150
    dghasil.Columns(1).Width = 250
    End Sub

Private Sub frm_ahp_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
    getConnString()
    penilaian_ahp()
    isisDgv()
End Sub
End Class

3. frmsmart

Imports System.Data.Odbc
Imports System.Data.OleDb
Imports System.Data.SqlClient
Imports MySql.Data.MySqlClient
Public Class frmsmart
    Dim i As Integer
    Dim insertquery As String

Dim deletequery As String
Dim hasil As Integer
Dim hasil_delete As Integer
Dim bobot_1 As Double
Dim bobot_2 As Double
Dim bobot_3 As Double
Dim bobot_4 As Double
Dim bobot_5 As Double
Dim hasil_1 As Double
Dim hasil_2 As Double
Dim hasil_3 As Double
Dim hasil_4 As Double
Dim hasil_5 As Double

Dim hasil_kecocokan1 As Double
Dim hasil_kecocokan2 As Double
Dim hasil_kecocokan3 As Double
Dim hasil_kecocokan4 As Double
Dim hasil_kecocokan5 As Double
Dim kategori_1 As String
Dim kategori_2 As String
Dim kategori_3 As String
Dim kategori_4 As String
Dim kategori_5 As String
Dim nilai_k1 As Double
Dim nilai_k2 As Double
Dim nilai_k3 As Double
Dim nilai_k4 As Double
Dim nilai_k5 As Double
Dim hasil_normal1 As Double
Dim hasil_normal2 As Double
Dim hasil_normal3 As Double
Dim hasil_normal4 As Double
Dim hasil_normal5 As Double
Dim total_bobot_penting As Double
Dim total_bobot_tidak_penting As Double
Dim bobot_relatif1 As Double
Dim bobot_relatif2 As Double
Dim nilai_rata As Double
Dim w_manfaat As Double
Dim w_premi As Double
Dim w_masa As Double
Dim w_usia As Double
Dim w_cara As Double
Dim kali_manfaat As Double
Dim kali_premi As Double
Dim kali_masa As Double
Dim kali_usia As Double
Dim kali_cara As Double
Dim total_smart As Double

Sub penilaian_smart()
Dim oWatch As New Stopwatch
oWatch.Start()
Try
openConn()
cmd = New OdbcCommand("SELECT * FROM penilaian order by id_asuransi ASC", conn)
rd = cmd.ExecuteReader()
While rd.Read
If (rd.Item("manfaat") = "Sangat Baik") Then
hasil_1 = 1
ElseIf (rd.Item("manfaat") = "Baik") Then
hasil_1 = 0.8
ElseIf (rd.Item("manfaat") = "Sedang") Then
hasil_1 = 0.5
ElseIf (rd.Item("manfaat") = "Kurang") Then
hasil_1 = 0.3
ElseIf (rd.Item("manfaat") = "Sangat Kurang") Then
hasil_1 = 0
End If
If (rd.Item("premi") = "Sangat Baik") Then
hasil_2 = 1
ElseIf (rd.Item("premi") = "Baik") Then
hasil_2 = 0.8
ElseIf (rd.Item("premi") = "Sedang") Then
hasil_2 = 0.5
ElseIf (rd.Item("premi") = "Kurang") Then
hasil_2 = 0.3
ElseIf (rd.Item("premi") = "Sangat Kurang") Then
hasil_2 = 0
End If
If (rd.Item("masa_pertanggungan") = "Sangat Baik") Then
hasil_3 = 1
ElseIf (rd.Item("masa_pertanggungan") = "Baik") Then
hasil_3 = 0.8
ElseIf (rd.Item("masa_pertanggungan") = "Sedang") Then
hasil_3 = 0.5
ElseIf (rd.Item("masa_pertanggungan") = "Kurang") Then
hasil_3 = 0.3
ElseIf (rd.Item("masa_pertanggungan") = "Sangat Kurang") Then
hasil_3 = 0
End If
If (rd.Item("usia_masuk_tertanggung") = "Sangat Baik") Then
hasil_4 = 1
ElseIf (rd.Item("usia_masuk_tertanggung") = "Baik") Then
hasil_4 = 0.8
ElseIf (rd.Item("usia_masuk_tertanggung") = "Sedang") Then

hasil_4 = 0.5
ElseIf (rd.Item("usia_masuk_tertanggung") = "Kurang") Then
hasil_4 = 0.3
ElseIf (rd.Item("usia_masuk_tertanggung") = "Sangat Kurang") Then
hasil_4 = 0
End If
If (rd.Item("pembayaran_premi") = "Sangat Baik") Then
hasil_5 = 1
ElseIf (rd.Item("pembayaran_premi") = "Baik") Then
hasil_5 = 0.8
ElseIf (rd.Item("pembayaran_premi") = "Sedang") Then
hasil_5 = 0.5
ElseIf (rd.Item("pembayaran_premi") = "Kurang") Then
hasil_5 = 0.3
ElseIf (rd.Item("pembayaran_premi") = "Sangat Kurang") Then
hasil_5 = 0
End If
insertquery = ("insert into matrix_asuransivalues( "," & rd.Item("id_asuransi") & "," & hasil_1 & "," & hasil_2 & "," & hasil_3 & "," & hasil_4 & "," & hasil_5 & ")")
cmd2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT SUM(bobot_penting) AS jum_bobot_penting FROM kriteria order by kepentingan ASC", conn)
rd = cmd.ExecuteReader()
rd.Read()
total_bobot_penting = rd.Item("jum_bobot_penting")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT SUM(bobot_tidak_penting) AS jum_bobot_tidak_penting FROM kriteria order by kepentingan ASC", conn)
rd = cmd.ExecuteReader()
rd.Read()
total_bobot_tidak_penting = rd.Item("jum_bobot_tidak_penting")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT id_kriteria, bobot_penting,
bobot_tidak_penting FROM kriteria order by kepentingan ASC", conn)
rd = cmd.ExecuteReader()
While rd.Read
bobot_relatif1 = rd.Item("bobot_penting") / total_bobot_penting
bobot_relatif2 = rd.Item("bobot_tidak_penting") / total_bobot_tidak_penting
insertquery = ("insert into normalisasi_bobotvalues('', '' & rd.Item("id_kriteria") & 
'', '' & bobot_relatif1 & '', '' & bobot_relatif2 & '')")
md2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT id_kriteria, bobot_relatif_1, bobot_relatif_2
FROM normalisasi_bobot order by id_normalisasi_bobot ASC", conn)
rd = cmd.ExecuteReader()
While rd.Read
nilai_rata = (rd.Item("bobot_relatif_1") + rd.Item("bobot_relatif_2")) / 2
insertquery = ("insert into bobot_rata_ratavalues('', '' & rd.Item("id_kriteria") & 
'', '' & nilai_rata & '')")
md2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT * FROM bobot_rata_rata where 
id_kriteria='4'", conn)
rd = cmd.ExecuteReader()
rd.Read()
w_manfaat = rd.Item("nilai_rata_rata")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try
Try
openConn()
cmd = New OdbcCommand("SELECT * FROM bobot_rata_rata where id_kriteria='5'", conn)
rd = cmd.ExecuteReader()
rd.Read()
w_premi = rd.Item("nilai_rata_rata")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT * FROM bobot_rata_rata where id_kriteria='6'", conn)
r = cmd.ExecuteReader()
r.Read()
w_masa = rd.Item("nilai_rata_rata")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT * FROM bobot_rata_rata where id_kriteria='7'", conn)
r = cmd.ExecuteReader()
r.Read()
w_usia = rd.Item("nilai_rata_rata")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT * FROM bobot_rata_rata where id_kriteria='9'", conn)
r = cmd.ExecuteReader()
r.Read()
w_cara = rd.Item("nilai_rata_rata")
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try

Try
openConn()
cmd = New OdbcCommand("SELECT * FROM matrix_asuransi order by id_asuransi ASC", conn)
r = cmd.ExecuteReader()
While rd.Read
kali_manfaat = w_manfaat * rd.Item("matrix_manfaat")
kali_premi = w_premi * rd.Item("matrix_premi")
kali_masa = w_masa * rd.Item("matrix_masa")
kali_usia = w_usia * rd.Item("matrix_usia")
kali_cara = w_cara * rd.Item("matrix_cara")
total_smart = kali_manfaat + kali_premi + kali_masa + kali_usia + kali_cara
insertquery = ("insert into hasil_smartvalues('','" & rd.Item("id_asuransi") & ",'" & total_smart & ")")
cmd2 = New OdbcCommand(insertquery, conn)
hasil = cmd2.ExecuteNonQuery
End While
closeConn()
Catch ex As Exception
MessageBox.Show(ex.Message)
End Try
oWatch.Stop()
Label6.Text = "" & oWatch.ElapsedMilliseconds.ToString & " ms"
End Sub

Sub isisDgv()
Dim dt As New DataTable
GetData(dt, "select a.nama_asuransi,b.hasil_smart from asuransi a, hasil_smart b WHERE a.id_asuransi=b.id_asuransi order by b.hasil_smart DESC")
dhasil.DataSource = dt
dhasil.Columns(0).HeaderText = "Nama Asuransi"
dhasil.Columns(1).HeaderText = "Hasil SMART"
dhasil.Columns(0).Width = 150
dhasil.Columns(1).Width = 250
End Sub

Private Sub frmsmart_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
getConnString()
penilaian_smart()
isisDgv()
End Sub
Private Sub Label6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Label6.Click
End Sub
Private Sub Label7_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Label7.Click
End Sub
End Class