**LISTING PROGRAM**

Imports System.Data.Odbc

Public Class frmKriteria

Dim valid As Boolean

Sub databaru()

txtNama.Text = ""

txtBobot.Text = ""

cboJenis.Text = ""

txtNama.Focus()

End Sub

Sub kosongkan()

Call tidaksiapisi()

txtKode.Text = ""

txtNama.Text = ""

txtBobot.Text = ""

cboJenis.Text = ""

txtKode.Enabled = True

txtKode.Focus()

Call Aturnomor()

End Sub

Sub siapisi()

txtNama.Enabled = True

txtBobot.Enabled = True

cboJenis.Enabled = True

btnEdit.Enabled = False

btnHapus.Enabled = False

btnSimpan.Enabled = True

End Sub

Sub tidaksiapisi()

txtNama.Enabled = False

txtBobot.Enabled = False

cboJenis.Enabled = False

btnSimpan.Enabled = False

btnHapus.Enabled = False

btnEdit.Enabled = False

End Sub

Sub Tampil\_Standar()

da = New OdbcDataAdapter("Select kode\_cr,nama\_cr,Bobot,Perbaikan\_Bobot,If(jenis\_cr='B','Benefit','Cost') " & \_

"from tbkriteria order by kode\_cr", Conn)

ds = New DataSet

ds.Clear()

da.Fill(ds, "tbkriteria")

DGV.DataSource = (ds.Tables("tbkriteria"))

DGV.ReadOnly = True

DGV.AllowUserToAddRows = False

DGV.Columns(0).Width = 50

DGV.Columns(1).Width = 170

DGV.Columns(2).Width = 60

DGV.Columns(3).Width = 75

DGV.GridColor = Color.Blue

DGV.DefaultCellStyle.ForeColor = Color.Blue

DGV.RowHeadersDefaultCellStyle.BackColor = Color.DeepPink

DGV.AlternatingRowsDefaultCellStyle.BackColor = Color.Yellow

DGV.SelectionMode = DataGridViewSelectionMode.FullRowSelect

DGV.ColumnHeadersDefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DGV.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DGV.Columns(2).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DGV.Columns(3).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DGV.Columns(3).DefaultCellStyle.Format = "0.####"

DGV.Columns(0).HeaderText = "Kode Kriteria"

DGV.Columns(1).HeaderText = "Nama Kriteria"

DGV.Columns(2).HeaderText = "Bobot"

DGV.Columns(3).HeaderText = "Perbaikan Bobot"

DGV.Columns(4).HeaderText = "Jenis Kriteria"

End Sub

Sub NomorOtomatis()

cmd = New OdbcCommand("select \* from tbkriteria order by kode\_cr desc", Conn)

rd = cmd.ExecuteReader

rd.Read()

If Not rd.HasRows = True Then

txtKode.Text = "C0" + "1"

Else

txtKode.Text = Val(Microsoft.VisualBasic.Right(rd.Item("kode\_cr").ToString, 1)) + 1

If Len(txtKode.Text) = 1 Then

txtKode.Text = "C0" & txtKode.Text & ""

Else

txtKode.Text = "C" & txtKode.Text & ""

End If

End If

End Sub

Sub CekData()

cmd = New OdbcCommand("select \* from tbkriteria where kode\_cr='" & txtKode.Text & "' ", Conn)

rd = cmd.ExecuteReader

rd.Read()

If rd.HasRows = True Then

txtNama.Text = rd.Item("nama\_cr")

txtBobot.Text = rd.Item("bobot")

If rd.Item("jenis\_cr") = "B" Then

cboJenis.Text = "Benefit"

Else

cboJenis.Text = "Cost"

End If

Call tidaksiapisi()

btnEdit.Enabled = True

btnHapus.Enabled = True

txtKode.Enabled = False

Else

Call databaru()

Call siapisi()

End If

End Sub

Private Sub btnSimpan\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSimpan.Click

Call Validasi()

If valid = True Then

cmd = New OdbcCommand("Select \* from tbkriteria where kode\_cr='" & txtKode.Text & "' ", Conn)

rd = cmd.ExecuteReader

rd.Read()

If Not rd.HasRows Then

Dim sqltambah As String = "Insert into tbkriteria (kode\_cr,nama\_cr,bobot,jenis\_cr) values " & \_

"('" & txtKode.Text & "','" & Trim(txtNama.Text) & "','" & txtBobot.Text & "'," & \_

"'" & Microsoft.VisualBasic.Left(cboJenis.Text, 1) & "')"

cmd = New OdbcCommand(sqltambah, Conn)

Else

Dim sqledit As String = "Update tbkriteria set " & \_

"nama\_cr='" & Trim(txtNama.Text) & "', " & \_

"bobot='" & txtBobot.Text & "', " & \_

"jenis\_cr='" & Microsoft.VisualBasic.Left(cboJenis.Text, 1) & "' " & \_

" where kode\_cr='" & txtKode.Text & "' "

cmd = New OdbcCommand(sqledit, Conn)

End If

cmd.ExecuteNonQuery()

Call Tampil\_Standar()

btnBatal\_Click(sender, e)

End If

End Sub

Sub Validasi()

If txtNama.Text = "" Then

MsgBox("Nama Kriteria Belum diisi", , "Perhatian...!")

txtNama.Focus()

valid = False

Exit Sub

Else

valid = True

End If

If txtBobot.Text = "" Then

MsgBox("Bobot Kriteria Belum diisi", , "Perhatian...!")

txtBobot.Focus()

valid = False

Exit Sub

Else

valid = True

End If

If cboJenis.Text = "" Then

MsgBox("Jenis Kriteria Belum diisi", , "Perhatian...!")

cboJenis.Focus()

valid = False

Exit Sub

Else

valid = True

End If

End Sub

Private Sub btnEdit\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEdit.Click

btnEdit.Enabled = False

btnHapus.Enabled = False

Call siapisi()

txtNama.Focus()

End Sub

Private Sub btnHapus\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnHapus.Click

cmd = New OdbcCommand("Select \* from tbindikator where kode\_cr='" & txtKode.Text & "'", Conn)

rd = cmd.ExecuteReader

rd.Read()

If rd.HasRows Then

MsgBox("Maaf, Kriteria tersebut tidak dapat di Hapus...", , "Perhatian...!")

Else

If MessageBox.Show("Yakin akan dihapus..?", "Hapus Data", MessageBoxButtons.YesNo) = Windows.Forms.DialogResult.Yes Then

cmd = New OdbcCommand("Delete from tbkriteria where kode\_cr='" & txtKode.Text & "' ", Conn)

cmd.ExecuteNonQuery()

End If

End If

Call Tampil\_Standar()

Call kosongkan()

End Sub

Private Sub btnBatal\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnBatal.Click

Call kosongkan()

' Call NomorOtomatis()

End Sub

Private Sub btnTutup\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnTutup.Click

Call HitungPerbaikanBobot()

Me.Dispose()

End Sub

Private Sub txtBobot\_KeyPress(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyPressEventArgs) Handles txtBobot.KeyPress

If Not ((e.KeyChar >= "1" And e.KeyChar <= "5") Or e.KeyChar = vbBack) Then e.Handled() = True

End Sub

Private Sub frmstandar\_KeyPress(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyPressEventArgs) Handles Me.KeyPress

If Asc(e.KeyChar) = Keys.Enter Then

SendKeys.Send("{tab}")

End If

End Sub

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

Call databaru()

Call tidaksiapisi()

Call kosongkan()

Call Tampil\_Standar()

'Call NomorOtomatis()

End Sub

Private Sub txtKode\_KeyPress(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyPressEventArgs) Handles txtKode.KeyPress

If e.KeyChar = Chr(13) Then

Call CekData()

End If

End Sub

Private Sub DGV\_CellDoubleClick(ByVal sender As Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles DGV.CellDoubleClick

txtKode.Text = DGV.Rows(e.RowIndex).Cells(0).Value

Call CekData()

End Sub

Sub HitungPerbaikanBobot()

Dim nBobot(10), nPBobot(10) As Single

Dim cCriteria(10) As String

Dim nUrut, nJumlah As Integer

cmd = New OdbcCommand("Select \* from tbkriteria order by kode\_cr", Conn)

rd = cmd.ExecuteReader

nJumlah = 0

nUrut = 0

'Hitung Jumlah Bobot Keseluruhan

While rd.Read

nBobot(nUrut) = rd.Item("bobot")

cCriteria(nUrut) = rd.Item("kode\_cr")

nJUmlah = nJUmlah + nBobot(nUrut)

nUrut = nUrut + 1

End While

'Hitung Perbaikan bobot

For A = 0 To nUrut

nPBobot(A) = nBobot(A) / nJumlah

Next A

'Update Field Perbaikan Bobot

For A = 0 To nUrut

cmd = New OdbcCommand("Select \* from tbkriteria where kode\_cr='" & cCriteria(A) & "' ", Conn)

rd = cmd.ExecuteReader

rd.Read()

If rd.HasRows Then

Dim sqledit As String = "Update tbkriteria set " & \_

"perbaikan\_bobot='" & Microsoft.VisualBasic.Str(nPBobot(A)) & "' " & \_

" where kode\_cr='" & cCriteria(A) & "' "

cmd = New OdbcCommand(sqledit, Conn)

cmd.ExecuteNonQuery()

End If

Next A

End Sub

Sub Aturnomor()

Dim na As Integer

Dim cno, cekNomor As String

cno = ""

cmd = New OdbcCommand("Select \* from tbkriteria order by kode\_cr desc", Conn)

rd = cmd.ExecuteReader

rd.Read()

If Not rd.HasRows Then

na = 1

Else

cekNomor = rd.Item(0)

na = Val(Microsoft.VisualBasic.Right(cekNomor, 2)) + 1

End If

cno = Trim(Microsoft.VisualBasic.Str(na))

If Len(cno) = 1 Then

txtKode.Text = "C0" + cno

Else

txtKode.Text = "C" + cno

End If

End Sub

End Class