**LISTING PROGRAM**

**\*\*\*\* Input Dataset \*\*\*\***

Imports System.Data.Odbc

Imports System.Data.OleDb

Public Class frmDataSet

Dim StopWatch As New Diagnostics.Stopwatch

Dim cKode\_Penyakit As String

Dim nJmlData As Byte

Sub TampilBulan()

cboBulan.Items.Clear()

For A = 0 To 11

cboBulan.Items.Add(cBulan(A))

Next

End Sub

Sub databaru()

txtJumlah.Text = ""

nTahun.Focus()

End Sub

Sub kosongkan()

Call tidaksiapisi()

txtJumlah.Text = ""

nTahun.Enabled = True

cboBulan.Enabled = True

btnHapus.Enabled = False

btnSimpan.Enabled = False

nTahun.Focus()

End Sub

Sub siapisi()

txtJumlah.Enabled = True

btnHapus.Enabled = False

btnSimpan.Enabled = True

nTahun.Enabled = True

txtJumlah.Focus()

End Sub

Sub tidaksiapisi()

txtJumlah.Enabled = False

btnSimpan.Enabled = False

btnHapus.Enabled = False

btnimport.Enabled = False

End Sub

Sub TampilJenisPenyakit()

cboPenyakit.Items.Clear()

cmd = New OdbcCommand("select distinct nama\_penyakit,kode\_penyakit from tbjenis\_penyakit " & \_

" order by kode\_penyakit", Conn)

rd = cmd.ExecuteReader

While rd.Read

cboPenyakit.Items.Add(rd.Item(0))

End While

End Sub

Sub CekData()

cmd = New OdbcCommand("select \* from tbdataset where tahun = '" & nTahun.Text & "' and " & \_

"id\_bulan= '" & cId\_Bulan & "' and kode\_penyakit ='" & cKode\_Penyakit & "'", Conn)

rd = cmd.ExecuteReader

rd.Read()

If rd.HasRows = True Then

txtJumlah.Text = rd.Item("jml\_pasien")

Call tidaksiapisi()

btnHapus.Enabled = True

cboBulan.Enabled = False

nTahun.Enabled = False

cboPenyakit.Enabled = True

txtJumlah.Enabled = True

btnSimpan.Enabled = True

Else

Call databaru()

Call siapisi()

End If

End Sub

Sub Tampilkandata()

dg2.Columns.Clear()

dg2.Columns.Add("kode", "Tahun")

dg2.Columns.Add("kode", "Bulan")

dg2.Columns.Add("kode", "Jml Pasien")

Dim sql As String = "Select tahun,id\_bulan,jml\_pasien " & \_

" from tbdataset where kode\_penyakit ='" & cKode\_Penyakit & "' order by tahun,id\_bulan"

cmd = New OdbcCommand(sql, Conn)

rd = cmd.ExecuteReader

Dim i As Integer = 0

While rd.Read

dg2.Rows.Add()

dg2.Item(0, i).Value = rd(0)

dg2.Item(1, i).Value = NamaBulan(rd(1) - 1)

dg2.Item(2, i).Value = rd(2)

i += 1

End While

rd.Close()

dg2.ReadOnly = True

dg2.AllowUserToAddRows = False

dg2.Columns(0).Width = 80

dg2.Columns(1).Width = 110

dg2.Columns(2).Width = 120

dg2.GridColor = Color.Blue

dg2.DefaultCellStyle.ForeColor = Color.Purple

dg2.RowHeadersDefaultCellStyle.BackColor = Color.DeepPink

dg2.AlternatingRowsDefaultCellStyle.BackColor = Color.LightPink

dg2.SelectionMode = DataGridViewSelectionMode.FullRowSelect

dg2.ColumnHeadersDefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

dg2.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

dg2.Columns(2).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

dg2.Columns(2).DefaultCellStyle.Format = "#,###"

End Sub

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

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

cmd = New OdbcCommand("Delete from tbdataset where tahun = '" & nTahun.Text & "' and id\_bulan= '" & cId\_Bulan & "' and kode\_penyakit ='" & cKode\_Penyakit & "'", Conn)

cmd.ExecuteNonQuery()

End If

Call Tampilkandata()

Call kosongkan()

End Sub

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

Me.Dispose()

End Sub

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

Koneksi()

cmdCari.Enabled = False

nTahun.Value = Year(Now)

Call TampilJenisPenyakit()

Call Tampilkandata()

Call kosongkan()

Call TampilBulan()

End Sub

Private Sub DG2\_CellDoubleClick(ByVal sender As Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles dg2.CellDoubleClick

nTahun.Text = dg2.Rows(e.RowIndex).Cells(0).Value

cboBulan.Text = dg2.Rows(e.RowIndex).Cells(1).Value

Call CekData()

End Sub

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

If cboPenyakit.Text = "" Or txtJumlah.Text = "" Then

MsgBox("Maaf, Data belum lengkap...", , "Perhatian...!")

txtJumlah.Focus()

Exit Sub

End If

cmd = New OdbcCommand("Select \* from tbdataset where tahun = '" & nTahun.Text & "' and id\_bulan= '" & cId\_Bulan & "' and kode\_penyakit ='" & cKode\_Penyakit & "'", Conn)

rd = cmd.ExecuteReader

rd.Read()

If Not rd.HasRows Then

Dim sqltambah As String = "Insert into tbdataset (tahun,id\_bulan,kode\_penyakit,jml\_pasien,user\_id) values " & \_

"('" & nTahun.Text & "', '" & cId\_Bulan & "','" & cKode\_Penyakit & "','" & txtJumlah.Text & "','" & cUserId & "')"

cmd = New OdbcCommand(sqltambah, Conn)

Else

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

"jml\_pasien='" & txtJumlah.Text & "', " & \_

"user\_id='" & cUserId & "' " & \_

" where tahun = '" & nTahun.Text & "' and id\_bulan= '" & cId\_Bulan & "' and kode\_penyakit ='" & cKode\_Penyakit & "'"

cmd = New OdbcCommand(sqledit, Conn)

End If

cmd.ExecuteNonQuery()

Call kosongkan()

Call Tampilkandata()

End Sub

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

Call kosongkan()

Call Tampilkandata()

nTahun.Focus()

End Sub

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

Dim conn\_xls As OleDbConnection

Dim cmd\_xls As OleDbCommand

Dim rd\_xls As OleDbDataReader

Dim nJmlDataExcel As Integer

Me.StopWatch.Reset()

If btnimport.Text = "&Import" Then

If txtNamaFile.Text = "" Then

MsgBox("Maaf, File Excel belum dipilih !!!", 0 + 16, "Konfirmasi")

' cmdCari\_Click()

Exit Sub

End If

conn\_xls = New OleDbConnection("provider=Microsoft.ace.OLEDB.12.0;data source=" & txtNamaFile.Text & ";Extended Properties=Excel 12.0;")

conn\_xls.Open()

cmd\_xls = New OleDbCommand("SELECT COUNT(\*) AS jml\_rec FROM [sheet1$]", conn\_xls)

rd\_xls = cmd\_xls.ExecuteReader

rd\_xls.Read()

nJmlDataExcel = rd\_xls.Item(0)

cmd\_xls = New OleDbCommand("SELECT \* FROM [sheet1$]", conn\_xls)

rd\_xls = cmd\_xls.ExecuteReader

btnimport.Visible = False

Me.Refresh()

Timer1.Enabled = True

nData = 0

pBar.Maximum = 100

Timer1.Start()

Me.StopWatch.Start()

While rd\_xls.Read

nTahun.Text = rd\_xls.Item(0)

cId\_Bulan = NilaiBulan(Trim(rd\_xls.Item(1)))

If cId\_Bulan <> 0 Then

cmd = New OdbcCommand("Select \* from tbdataset where tahun='" & nTahun.Text & "' and id\_bulan= '" & cId\_Bulan & "' and kode\_penyakit ='" & cKode\_Penyakit & "'", Conn)

rd = cmd.ExecuteReader

rd.Read()

If Not rd.HasRows Then

Dim sqltambah As String = "Insert into tbdataset (tahun,id\_bulan,kode\_penyakit,jml\_pasien,user\_id) values " & \_

"('" & nTahun.Text & "','" & cId\_Bulan & "','" & cKode\_Penyakit & "'," & rd\_xls.Item(2) & ",'" & cUserId & "')"

cmd = New OdbcCommand(sqltambah, Conn)

Else

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

"jml\_pasien=" & rd\_xls.Item(2) & ", " & \_

"user\_id='" & cUserId & "' " & \_

" where tahun='" & nTahun.Text & "' and id\_bulan ='" & cId\_Bulan & "' and kode\_penyakit ='" & cKode\_Penyakit & "'"

cmd = New OdbcCommand(sqledit, Conn)

End If

cmd.ExecuteNonQuery()

End If

nData = nData + 1

pBar.PerformStep()

'Hitung persentase kinerja pemrosesan data dan tampilkan dalam status bar

labelPersen.Text = ((nData / nJmlDataExcel) \* 100).ToString("N2") & "% Completing..."

pBar.Value = Math.Round(nData / nJmlDataExcel \* 100)

Application.DoEvents()

End While

Timer1.Stop()

Me.StopWatch.Stop()

labelPersen.Text = "100% Completed"

conn\_xls.Close()

btnimport.Visible = True

MsgBox("Import Data Sukses.", vbExclamation, "Information")

btnimport.Enabled = False

pBar.Value = 0

labelPersen.Text = ""

Call Tampilkandata()

End If

End Sub

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

Dim FileExcel As String

If cboPenyakit.Text = "" Then

MsgBox("Maaf, Nama Penyakit Harus Pilih Dulu...", , "Perhatian...!")

cboPenyakit.Focus()

Exit Sub

End If

cDialog.Title = "Excel File"

cDialog.Filter = "Excel (\*.xlsx)|\*.xlsx"

cDialog.InitialDirectory = Application.ExecutablePath

cDialog.ShowDialog()

FileExcel = cDialog.FileName

txtNamaFile.Text = FileExcel

If txtNamaFile.Text <> "" Then

btnimport.Enabled = True

stsBar.Visible = True

Else

btnimport.Enabled = False

End If

End Sub

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

If Not ((e.KeyChar >= "0" And e.KeyChar <= "9") Or e.KeyChar = vbBack) Then e.Handled() = True

End Sub

Private Sub cboObat\_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles cboPenyakit.SelectedIndexChanged

If cboPenyakit.Text = "" Then Exit Sub

cmd = New OdbcCommand("Select kode\_penyakit from tbjenis\_penyakit where nama\_penyakit='" & cboPenyakit.Text & "'", Conn)

rd = cmd.ExecuteReader

rd.Read()

If rd.HasRows Then

cKode\_Penyakit = rd.Item(0)

cmdCari.Enabled = True

Else

MsgBox("Maaf, Nama Penyakit salah isi...", , "Perhatian...!")

Call kosongkan()

cmdCari.Enabled = False

cboPenyakit.Text = ""

cboPenyakit.Focus()

Exit Sub

End If

Call Tampilkandata()

End Sub

Private Sub cboBulan\_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles cboBulan.SelectedIndexChanged

If cboBulan.Text = "" Then Exit Sub

cId\_Bulan = NilaiBulan(Trim(cboBulan.Text))

If cId\_Bulan = 0 Then

MsgBox("Maaf, Nama Bulan tidak dikenal atau salah isi...", , "Perhatian...!")

cboBulan.Text = ""

cboBulan.Focus()

Exit Sub

End If

Call CekData()

End Sub

Private Sub cboObat\_Validated(ByVal sender As Object, ByVal e As System.EventArgs) Handles cboPenyakit.Validated

cboObat\_SelectedIndexChanged(sender, e)

End Sub

Private Sub cboBulan\_Validated(ByVal sender As Object, ByVal e As System.EventArgs) Handles cboBulan.Validated

cboBulan\_SelectedIndexChanged(sender, e)

End Sub

Private Sub nTahun\_ValueChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles nTahun.ValueChanged

If cboBulan.Text <> "" Then

Call CekData()

End If

End Sub

Private Sub dg2\_CellContentClick(ByVal sender As System.Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles dg2.CellContentClick

End Sub

End Class

**\*\*\*\* Laporan Hasil Penilaian \*\*\*\***

Imports System.Data.Odbc

Imports System.Data.OleDb

Public Class frmLapHasilPrediksi

Dim cKode\_Penyakit As String

Sub TampilJenisPenyakit()

cboPenyakit.Items.Clear()

cmd = New OdbcCommand("select distinct nama\_penyakit,kode\_penyakit from tbjenis\_penyakit " & \_

" order by kode\_penyakit", Conn)

rd = cmd.ExecuteReader

While rd.Read

cboPenyakit.Items.Add(rd.Item(0))

End While

End Sub

Sub Tampilkandata()

dg2.Columns.Clear()

dg2.Columns.Add("kode", "Tahun")

dg2.Columns.Add("kode", "Bulan")

dg2.Columns.Add("kode", "Pasien Bulan-1 (X)")

dg2.Columns.Add("kode", "Prediksi Bulan Ini (Y)")

Dim sql As String = "Select tahun,id\_bulan,nilai\_X,prediksi\_y " & \_

" from tbprediksi where kode\_penyakit ='" & cKode\_Penyakit & "' order by tahun,id\_bulan"

cmd = New OdbcCommand(sql, Conn)

rd = cmd.ExecuteReader

Dim i As Integer = 0

While rd.Read

dg2.Rows.Add()

dg2.Item(0, i).Value = rd(0)

dg2.Item(1, i).Value = NamaBulan(rd(1) - 1)

dg2.Item(2, i).Value = rd(2)

dg2.Item(3, i).Value = rd(3)

i += 1

End While

rd.Close()

dg2.ReadOnly = True

dg2.AllowUserToAddRows = False

dg2.Columns(0).Width = 80

dg2.Columns(1).Width = 100

dg2.Columns(2).Width = 110

dg2.Columns(3).Width = 110

dg2.GridColor = Color.Blue

dg2.DefaultCellStyle.ForeColor = Color.Blue

dg2.RowHeadersDefaultCellStyle.BackColor = Color.DeepPink

dg2.AlternatingRowsDefaultCellStyle.BackColor = Color.LightPink

dg2.SelectionMode = DataGridViewSelectionMode.FullRowSelect

dg2.ColumnHeadersDefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

dg2.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

dg2.Columns(2).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

dg2.Columns(3).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

dg2.Columns(2).DefaultCellStyle.Format = "#,###"

dg2.Columns(3).DefaultCellStyle.Format = "#,###"

If dg2.RowCount > 0 Then

btnCetak.Enabled = True

Else

btnCetak.Enabled = False

End If

End Sub

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

Call TampilJenisPenyakit()

If frmPrediksi.cboPenyakit.Text <> "" Then

cboPenyakit.Text = frmPrediksi.cboPenyakit.Text

cboPenyakit\_SelectedIndexChanged(sender, e)

End If

btnCetak.Enabled = False

End Sub

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

Me.Dispose()

End Sub

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

Dim frmCetakHasil As New frmLaporan

Dim Cetakdata As CrystalDecisions.CrystalReports.Engine.ReportDocument

Cetakdata = New rptHasilPrediksi

frmCetakHasil.CRV.ReportSource = Nothing

frmCetakHasil.CRV.SelectionFormula = "{tbprediksi1.kode\_penyakit}='" & cKode\_Penyakit & "' and {tbprediksi1.kode\_penyakit}={tbjenis\_penyakit1.kode\_penyakit}"

frmCetakHasil.CRV.ReportSource = Cetakdata

frmCetakHasil.CRV.Refresh()

frmCetakHasil.CRV.RefreshReport()

frmCetakHasil.Show(Me)

End Sub

Private Sub Label5\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Label5.Click

End Sub

Private Sub cboPenyakit\_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles cboPenyakit.SelectedIndexChanged

dg2.Columns.Clear()

If cboPenyakit.Text = "" Then Exit Sub

cmd = New OdbcCommand("Select kode\_penyakit from tbjenis\_penyakit where nama\_penyakit='" & cboPenyakit.Text & "'", Conn)

rd = cmd.ExecuteReader

rd.Read()

If rd.HasRows Then

cKode\_Penyakit = rd.Item(0)

Call Tampilkandata()

Else

MsgBox("Maaf, Jenis Penyakit tidak dikenal atau salah isi...", , "Perhatian...!")

cboPenyakit.Text = ""

cboPenyakit.Focus()

Exit Sub

End If

End Sub

Private Sub dg2\_CellContentClick(ByVal sender As System.Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles dg2.CellContentClick

End Sub

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

Dim cTahun As String

cTahun = Me.dg2.SelectedCells(0).Value

cId\_Bulan = NilaiBulan(Me.dg2.SelectedCells(1).Value)

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

cmd = New OdbcCommand("Delete from tbprediksi where tahun = '" & cTahun & "' and id\_bulan= '" & cId\_Bulan & "' and kode\_penyakit ='" & cKode\_Penyakit & "'", Conn)

cmd.ExecuteNonQuery()

End If

Call Tampilkandata()

End Sub

Private Sub dg2\_CellMouseClick(ByVal sender As Object, ByVal e As System.Windows.Forms.DataGridViewCellMouseEventArgs) Handles dg2.CellMouseClick

If e.Button = MouseButtons.Right Then

Dim Rowindexx As Integer

Me.dg2.Rows(e.RowIndex).Selected = True

Rowindexx = e.RowIndex

Me.dg2.CurrentCell = Me.dg2.Rows(e.RowIndex).Cells(0)

Me.mnHapusData.Show(Me.dg2, e.Location)

Me.mnHapusData.Show(Cursor.Position)

End If

End Sub

End Class