

MENGOLAH DATA EXCEL DENGAN VB.NET

Excel merupakan salah satu jenis peranti lunak pengolah database. Banyak orang menggunakan excel sebagai media untuk pengolahan data yang mereka butuhkan. Dalam bab ini akan dijelaskan tentang bagaimana cara mengolah data excel dengan menggunakan VB.Net termasuk di dalamnya tentang cara export dan import.

6.1 Membuat Project Baru

Tahapan pertama dalam pembuatan aplikasi pengolahan data excel ini adalah membuat project baru dengan langkah sebagai berikut:

1. Buka visual studio 2008
2. Klik create project
3. Tulis nama project "Mengolah Data Excel"
4. OK

Setelah membuat project baru dan menyimpannya di posisi tertentu, maka akan terbentuk folder project secara otomatis yang di dalamnya terdapat folder ... >> BIN>> DEBUG. Folder inilah yang akan dijadikan tempat menyimpan data excel.

Kondisi ini sekarang menjadi sebuah pilihan, anda boleh saja membuat data excel dan disimpan di folder yang anda inginkan karena nantinya data excel dapat dicari dengan menggunakan openfiledialog.

6.2 Membuat Data Excel

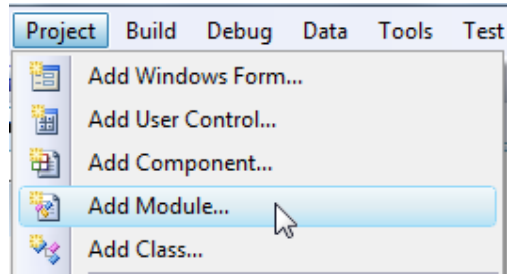
Langkah berikutnya adalah membuat data excel dengan struktur seperti gambar di bawah ini.

	A	B
1	KODE	NAMA
2	111	PRINTER
3	222	KOMPUTER
4	333	MOUSE
5	444	CD ROM
6	555	DVD ROM
7		

Gambar 6.1 Data Barang

6.3 Membuat Module Koneksi Ke Excel

Coding module koneksi ke data excel agak sedikit berbeda dengan database access, mysql atau sql server. Untuk membuat module koneksi ini klik menu project >> add module.



Gambar 6.2 Membuat Module Koneksi

Coding :

```
Imports System.Data.OleDb
```

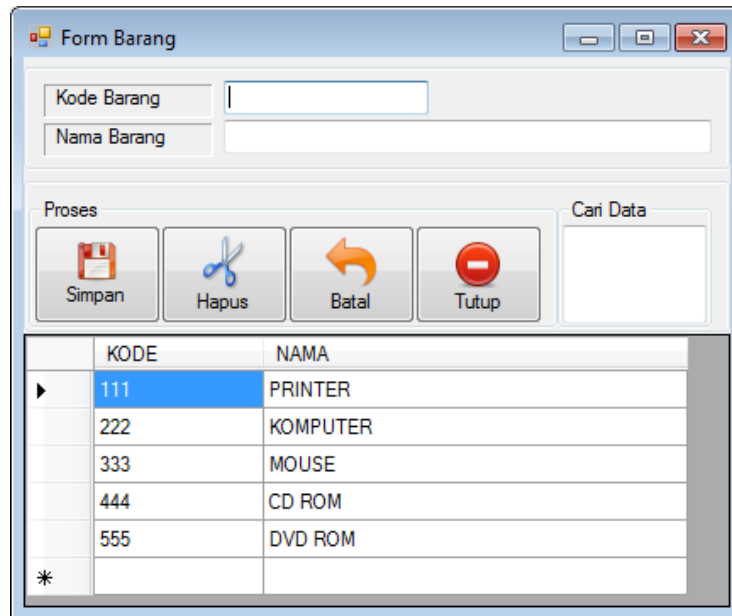
```
Module Module1
```

```
Public CONN As OleDbConnection  
Public CMD As OleDbCommand  
Public DS As New DataSet  
Public DA As OleDbDataAdapter  
Public RD As OleDbDataReader  
Public DT As DataTable
```

```
Sub Koneksi()  
    'string koneksi ke data excel  
    CONN = New  
OleDbConnection("provider=Microsoft.ace.OLEDB.12.0;data  
source=book1.xlsx;Extended Properties=Excel 8.0;")  
    CONN.Open()  
End Sub  
End Module
```

6.4 Form Pengolahan Data Excel

Logika dan proses program dalam form barang mirip seperti yang telah dibahas pada bab sebelumnya.



Gambar 6.3 Form Barang

Coding :

```
Imports System.Data.OleDb
```

```
Public Class Form1
```

```
Sub Kosongkan()  
    TextBox1.Clear()  
    TextBox2.Clear()  
    TextBox1.Focus()  
End Sub
```

```
Sub TampilGrid()  
    DA = New OleDbDataAdapter("select * from  
[sheet1$]", CONN)  
    DS = New DataSet  
    DA.Fill(DS)  
    DGV.DataSource = DS.Tables(0)  
    DGV.ReadOnly = True  
End Sub
```

```
Private Sub Form1_Load(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles MyBase.Load  
    Call Koneksi()  
    Call TampilGrid()  
    Call Kosongkan()  
End Sub
```

```
Private Sub TextBox1_KeyPress(ByVal sender As Object,
ByVal e As System.Windows.Forms.KeyPressEventArgs) Handles
TextBox1.KeyPress
```

```
    TextBox1.MaxLength = 5
    If e.KeyChar = Chr(13) Then
        Call Koneksi()
```

```
        CMD = New OleDbCommand("Select * from [sheet1$]
where val(Kode)='" & TextBox1.Text & "'", CONN)
```

```
        RD = CMD.ExecuteReader
        RD.Read()
```

```
        If Not RD.HasRows Then
            TextBox2.Text = ""
            TextBox2.Focus()
```

```
        Else
            TextBox2.Text = RD.Item("NAMA")
            TextBox2.Focus()
```

```
        End If
```

```
    End If
```

```
End Sub
```

```
Private Sub TextBox2_KeyPress(ByVal sender As Object,
ByVal e As System.Windows.Forms.KeyPressEventArgs) Handles
TextBox2.KeyPress
```

```
    TextBox2.MaxLength = 30
    If e.KeyChar = Chr(13) Then Button1.Focus()
```

```
End Sub
```

```
Private Sub Button1_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
Button1.Click
```

```
    If TextBox1.Text = "" Or TextBox2.Text = "" Then
        MsgBox("Data belum lengkap")
        Exit Sub
```

```
    Else
```

```
        Call Koneksi()
```

```
        CMD = New OleDbCommand("Select * from [sheet1$]
where val(Kode)='" & TextBox1.Text & "'", CONN)
```

```
        RD = CMD.ExecuteReader
        RD.Read()
```

```
        If Not RD.HasRows Then
```

```
            Dim simpan As String = "insert into
[sheet1$] values ('" & TextBox1.Text & "','" &
TextBox2.Text & "')
```

```
            CMD = New OleDbCommand(simpan, CONN)
            CMD.ExecuteNonQuery()
```

```
Else
    Dim edit As String = "update [sheet1$] set
NAMA='" & TextBox2.Text & "' where val(Kode)='" &
TextBox1.Text & "'"
    CMD = New OleDbCommand(edit, CONN)
    CMD.ExecuteNonQuery()
End If

Call TampilGrid()
Call Kosongkan()
End If
End Sub

Private Sub Button2_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
Button2.Click
    If TextBox1.Text = "" Then
        MsgBox("val(Kode) Barang masih kosong, silakan
diisi dulu")
        TextBox1.Focus()
    Exit Sub
    Else
        If MessageBox.Show("Yakin akan dihapus..?", "",
MessageBoxButtons.YesNo) = Windows.Forms.DialogResult.Yes
Then
            Dim hapus As String = "delete * from
[sheet1$] where val(Kode)='" & TextBox1.Text & "'"
            CMD = New OleDbCommand(hapus, CONN)
            CMD.ExecuteNonQuery()
            Call TampilGrid()
            Call Kosongkan()
        Else
            Call Kosongkan()
        End If
    End If
End Sub

Private Sub Button3_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
Button3.Click
    Call Kosongkan()
End Sub

Private Sub Button4_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
Button4.Click
    Me.Close()
End Sub
```

```
Private Sub TextBox6_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TextBox6.TextChanged
```

```
    CMD = New OleDbCommand("select * from [sheet1$] where NAMA like '%" & TextBox6.Text & "%'", CONN)
```

```
    RD = CMD.ExecuteReader
```

```
    RD.Read()
```

```
    If RD.HasRows Then
```

```
        DA = New OleDbDataAdapter("select * from [sheet1$] where NAMA like '%" & TextBox6.Text & "%'", CONN)
```

```
        DS = New DataSet
```

```
        DA.Fill(DS, "ketemu")
```

```
        DGV.DataSource = DS.Tables("ketemu")
```

```
        DGV.ReadOnly = True
```

```
    Else
```

```
        MsgBox("data tidak ditemukan")
```

```
    End If
```

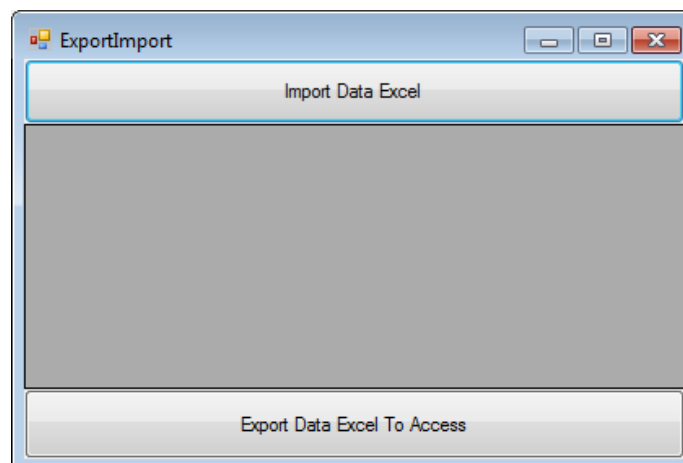
```
End Sub
```

```
End Class
```

Coba anda perhatikan, begitu mudahnya mengolah data excel, perbedaannya hanya pada string koneksi dan penyebutan nama tabel diganti dengan nama sheet.

6.5 Export Import Data Excel

Langkah pertama membuat proses export dan import data excel adalah membuat database dengan access 2007 dan beri nama DBExport.accdb. kemudian buatlah tabel dengan nama TBLBarang (kode_barang dan Nama_barang). Setelah itu form dengan bentuk seperti gambar di bawah ini.



Gambar 6.4 Form export import

Coding :

```
Imports System.Data.OleDb
```

```
Public Class ExportImport
```

```
'definisikan variabel koneksi di database access 2007
```

```
Dim ConnAccess As OleDbConnection
```

```
Dim CMDAccess As OleDbCommand
```

```
Dim DRAccess As OleDbDataReader
```

```
Private Sub Button1_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
Button1.Click
```

```
Call Koneksi() 'koneksi ke excel pertama kali sudah  
dibuat di module
```

```
DA = New OleDbDataAdapter("select * from  
[sheet1$]", CONN)
```

```
DS = New DataSet
```

```
DA.Fill(DS)
```

```
DGV.DataSource = DS.Tables(0)
```

```
DGV.Columns(1).Width = 200
```

```
DGV.ReadOnly = True
```

```
CONN.Close()
```

```
End Sub
```

```
Sub Koneksi()
```

```
'string koneksi ke daatabase access 2007
```

```
ConnAccess = New
```

```
OleDbConnection("provider=Microsoft.ace.OLEDB.12.0;data  
source=dbimport.accdb")
```

```
ConnAccess.Open()
```

```
End Sub
```

```
Private Sub Button2_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
Button2.Click
```

```
Call Koneksi()
```

```
'cari data di tabel barang
```

```
CMDAccess = New OleDbCommand("select * from  
tblbarang", ConnAccess)
```

```
DRAccess = CMDAccess.ExecuteReader
```

```
DRAccess.Read()
```

```
If Not DRAccess.HasRows Then
```

```
'jika datanya tidak ada maka simpan secara  
berulang
```

```
        For baris As Integer = 0 To DGV.RowCount - 2
            Dim simpan As String = "insert into
tblbarang values('" & DGV.Rows(baris).Cells(0).Value &
"', '" & DGV.Rows(baris).Cells(1).Value & "')"
            CMDAccess = New OleDbCommand(simpan,
ConnAccess)
            CMDAccess.ExecuteNonQuery()
        Next
        MsgBox("proses simpan berhasil")
    Else
        'jika datanya sudah ada maka edit secara
berulang
        For baris As Integer = 0 To DGV.RowCount - 2
            Dim edit As String = "update tblbarang set
nama_barang='" & DGV.Rows(baris).Cells(1).Value & "' where
kode_barang='" & DGV.Rows(baris).Cells(0).Value & "'"
            CMDAccess = New OleDbCommand(edit,
ConnAccess)
            CMDAccess.ExecuteNonQuery()
        Next
        MsgBox("proses edit berhasil")
    End If
End Sub
End Class
```