

PERTEMUAN IX

MEMBUAT FORM KONEKSI DATABASE

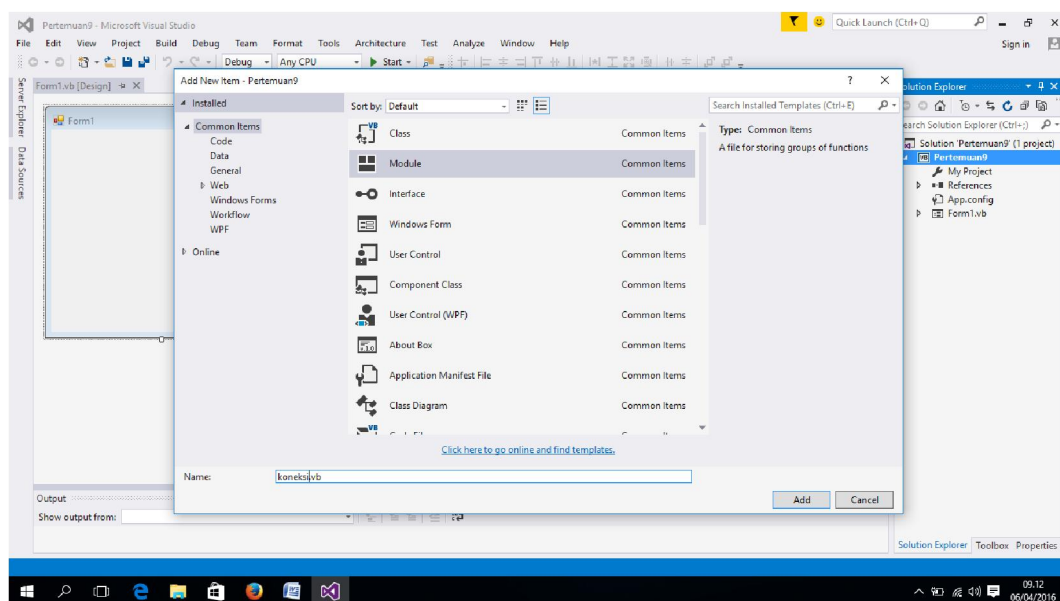
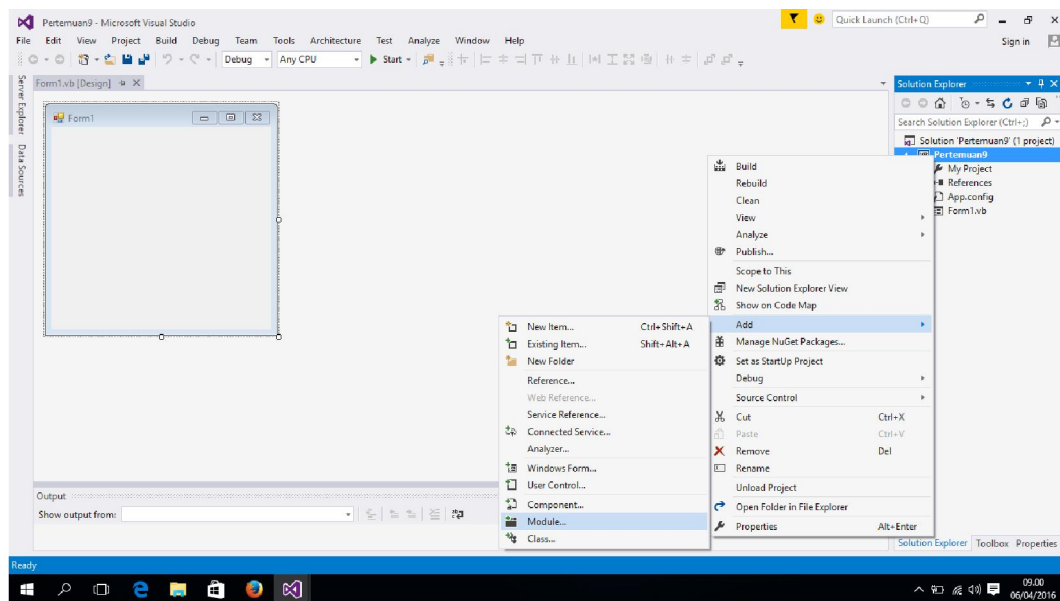
1. Membuat Form Koneksi Database

a. Membuat Koneksi

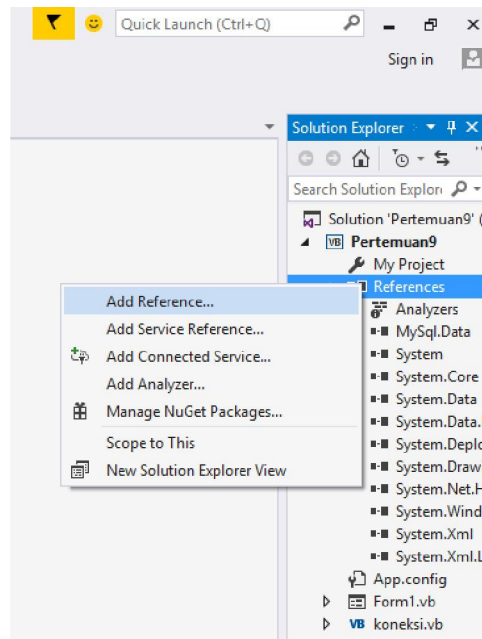
Pastikan anda sudah membuat database dan tabel. Silahkan buat project baru, selanjutnya buat module dengan cara :

Klik Kanan di nama project Anda → Add → Module

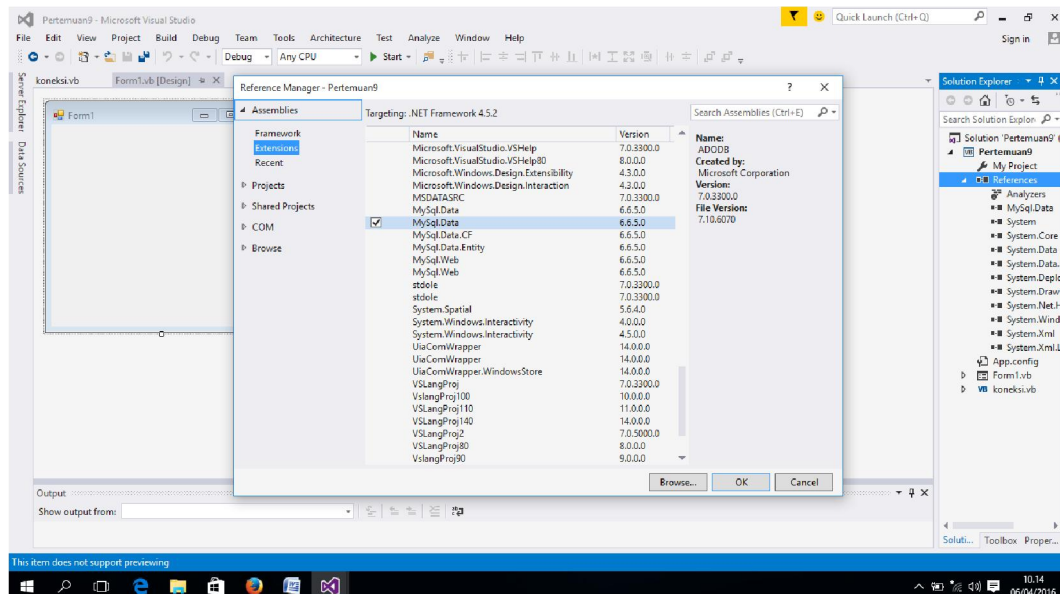
Seperti tampilan berikut:



Selanjutnya anda klik kanan di **References**→**Add References**



Selanjutnya muncul tampilan berikut: **pilih extensions**→**MySql.Data**→**Ok**



Pada module **koneksi.vb** Silahkan ketikkan coding berikut:

```
vb -> X Form1.vb [Design]
muan9
Imports MySql.Data.MySqlClient
0 references
Module koneksi
    Public conn As New MySqlConnection
    Public MySQLReader As MySqlDataReader
    Public CMD As New MySqlCommand
    Public DA As New MySqlDataAdapter
    0 references
    Public Sub konek(ByVal server As String, ByVal user As String, ByVal pass As String, ByVal db As String)
        If conn.State = ConnectionState.Closed Then
            Dim myString As String = "server=" & server _
                & ";user=" & user _
                & ";password=" & pass _
                & ";database=" & db
            Try
                conn.ConnectionString = myString
                conn.Open()
            Catch ex As MySql.Data.MySqlClient.MySqlException
                MsgBox(ex.Message)
                MessageBox.Show("Koneksi Gagal" & vbCrLf & "Mohon Cek Apakah Server Sudah Siap...!!!", "Koneksi ke Server",
                    MessageBoxButtons.OK, MessageBoxIcon.Warning)
            End Try
        End If
    End Sub

    Public Sub disconnect()
        Try
            conn.Open()
        Catch ex As MySql.Data.MySqlClient.MySqlException
        End Try
    End Sub
End Module
```

b. Membuat Desain Form Mahasiswa

Silahkan anda desain form mahasiswa seperti gambar berikut:

The screenshot shows a Windows Form titled 'Form1' with a title bar 'DATA MAHASISWA'. The form is designed with a light gray background. It contains several input fields: 'NIM' (text box), 'NAMA' (text box), 'JENIS KELAMIN' (dropdown menu), 'TEMPAT' (text box), 'TGL LAHIR' (date picker showing '06/04/2016'), and 'ALAMAT' (text area). Below these fields are four buttons: 'SIMPAN', 'EDIT', 'HAPUS', and 'KELUAR'. At the bottom, there is a section titled 'PENCARIAN DATA' with a dropdown menu and a text input field. A large gray rectangular area is at the very bottom of the form.

Atur property kontrol seperti berikut:

Kontrol	Properti	Nilai
Form1	Name	Form1
	Text	DATA MAHASISWA
TextBox1	Name	txtnim
	Maxlength	9
TextBox2	Name	txtnama
ComboBox1	Name	cbojkel
	DropDown	DropDownList
	Edit Items	Laki-laki Perempuan
TextBox3	Name	txttempat
DateTimePicker1	Name	tanggal
	Format	Short
RichTextBox1	Name	txtalamat
Button1	Name	cmdsimpan
	Text	SIMPAN
Button2	Name	cmdedit
	Text	EDIT
Button3	Name	cmdhapus
	Text	HAPUS
Button4	Name	cmdkeluar
	Text	KELUAR
ComboBox2	Name	cbocari
	DropDown	DropDownList
	Edit Items	Nim Nama
TextBox4	Name	txtcari
DataGridView1	Name	tabelmhs

Ketikkan **Source Code** Berikut:

```

vb  X koneksi.vb Form1.vb [Design]
emuan9 (Form1 Events)
Imports Pertemuan9.koneksi
Imports MySql.Data.MySqlClient

Public Class Form1
    Dim conn As New MySqlConnection("server=localhost;user id=root;database=perkuliahandb")
    Dim perintah As New MySqlCommand
    Dim data As New MySqlDataAdapter
    Dim ds As New DataSet

    Private Sub tampildata()
        Dim dt As DataTable
        Dim adapter As MySqlDataAdapter
        Dim sqlstr As String
        Dim data As Integer

        sqlstr = "Select * from mahasiswa"
        adapter = New MySqlDataAdapter(sqlstr, conn)
        dt = New DataTable
        data = adapter.Fill(dt)

        If data > 0 Then
            'nama header pada datagrid
            tabelmhs.DataSource = dt
            tabelmhs.AutoSizeColumnsMode = DataGridViewAutoSizeColumnsMode.Fill
            tabelmhs.Columns(0).HeaderText = "NIM"
            tabelmhs.Columns(1).HeaderText = "NAMA"
            tabelmhs.Columns(2).HeaderText = "JENIS KELAMIN"
            tabelmhs.Columns(3).HeaderText = "TEMPAT"
            tabelmhs.Columns(4).HeaderText = "TGL. LAHIR"
            tabelmhs.Columns(5).HeaderText = "ALAMAT"

        Else
            tabelmhs.DataSource = Nothing
        End If
        bersih()
        'tutup()
    End Sub

    Private Sub bersih()
        txtnim.Text = ""
        txtnama.Text = ""
        txtalamat.Text = ""
        txttempat.Text = ""
        cbojekel.SelectedIndex = -1
        tanggal.Text = ""
    End Sub

    Private Sub cmdsimpan_Click(sender As Object, e As EventArgs) Handles cmdsimpan.Click
        conn.Open()
        Try
            perintah.CommandType = CommandType.Text
            perintah.CommandText = "insert into mahasiswa (nim,nama,jekel,tempat,tgl_lahir,alamat) values ('" & txtnim.Text & "' , '" & txtnama.Text & "' , '" & cbojekel.Text & "' , '" & txttempat.Text & "' , '" & tanggal.Text & "' , '" & txtalamat.Text & "')"
            perintah.Connection = conn
            perintah.ExecuteNonQuery()
            MsgBox("Data berhasil disimpan", MsgBoxStyle.Information, "Informasi")
        Catch ex As Exception
            MsgBox("Data gagal disimpan" + ex.Message, MsgBoxStyle.Critical)
        End Try
        conn.Close()
        tampildata()
    End Sub

```

```
Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    konek("localhost", "root", "", "perkuliahandb")
    tampildata()
    tanggal.Format = DateTimePickerFormat.Custom
    tanggal.CustomFormat = "yyyy/MM/dd"
End Sub
End Class
```
