

Latihan Program:

1. Desain tampilan seperti berikut:

The screenshot shows a Windows application window titled "Form1" with a subtitle "Latihan Data Grid". The window contains several input fields: "Nim", "Nama", "Jurusan" (a dropdown menu), and "Foto" (with a "Browse" button). A large dashed rectangular area is present on the right side. Below these fields is a large grey rectangular area representing a data grid. At the bottom, there are five buttons: "Simpan", "Cari", "Edit", "Hapus", and "Keluar".

2. Selanjutnya masukkan kode berikut:

```
Imports MySql.Data.MySqlClient
Public Class Form1
    Private curFileName As String = Nothing
    Dim kon As New MySqlConnection("server=localhost;userid=root;database=latihan")
    Dim perintah As New MySqlCommand
    Dim cek As MySqlDataReader
    Dim Simpan As Boolean
    Dim Data As New MySqlDataAdapter
    ' Dim DGV As New DataGridView
    Dim ds As New DataSet
    Dim sql As String

    Sub tampildata()
        kon.Open()
        perintah.Connection = kon
        perintah.CommandType = CommandType.Text
        perintah.CommandText = "select * from tbmhs"
        Data.SelectCommand = perintah
        ds.Tables.Clear()
        Data.Fill(ds, "tbmhs")
        DGV.DataSource = ds.Tables("tbmhs")
        kon.Close()
    End Sub

    Sub kosongkan()
        TextBox1.Text = ""
        TextBox2.Text = ""
        ComboBox1.Text = ""
        'TextBox3.Text = ""
    End Sub
End Class
```

```

Private Sub Form1_Activated(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Activated
    tampildata()
End Sub

```

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```

Private Sub DGV_CellContentDoubleClick(ByVal sender As Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs)
    Dim msg As String = DGV.CurrentRow.RowIndex
    Dim i = DGV.CurrentRow.Index
    TextBox1.Text = DGV.Item(0, i).Value.ToString()
    TextBox2.Text = DGV.Item(1, i).Value.ToString()
    ' TextBox3.Text = DGV.Item(2, i).Value.ToString()
    Dim c As New IO.MemoryStream(CType(DGV.Item(3, DGV.CurrentRow.Index).Value, Byte()))
    PictureBox1.SizeMode = PictureBoxSizeMode.StretchImage
    PictureBox1.Image = Image.FromStream(c)
End Sub

```

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```

Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
    'open file
    Dim openDlg As OpenFileDialog = New OpenFileDialog
    openDlg.Filter = "All JPEG files|.jpg"
    Dim filter As String = openDlg.Filter
    openDlg.Title = "Open a JPEG File"
    If (openDlg.ShowDialog() = DialogResult.OK) Then
        curFileName = openDlg.FileName
        TextBox4.Text = curFileName
    End If
End Sub

```

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```

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
    'simpan file
    If TextBox1.Text Is String.Empty Then
        MessageBox.Show("Mencari File Gambar")
        Return
    End If
    kon.Open()
    perintah.Connection = kon
    perintah.CommandType = CommandType.Text
    sql = "INSERT INTO tbmhs (nim,nama,jurusan,foto) VALUES (@nim,@nama,@jurusan,@foto)" ' ini perintah insert biasa
    Using perintah = New MySqlCommand(sql, kon)
        With perintah
            .Parameters.Clear()
            .Parameters.AddWithValue("@nim", TextBox1.Text) ' nim
            .Parameters.AddWithValue("@nama", TextBox2.Text) ' nama
            .Parameters.AddWithValue("@jurusan", Mid(ComboBox1.Text, 2, 30)) ' jurusan
            .Parameters.AddWithValue("@foto", IO.File.ReadAllBytes(curFileName)) ' foto
            .ExecuteNonQuery()
        End With
    End Using

    kon.Close()
    MsgBox("Data Sukses Tersimpan", MsgBoxStyle.Information, "Pesan")
    kosongkan()
End Sub

```

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```

Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button6.Click

    Me.Close()
End Sub

```

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```
Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button5.Click
    kon.Open()
    perintah.Connection = kon
    perintah.CommandType = CommandType.Text
    perintah.CommandText = "delete from tbmhs where nim = '" & TextBox1.Text & "'"
    perintah.ExecuteNonQuery()
    kon.Close()
    TextBox1.Clear()
    TextBox2.Clear()
    MsgBox("Data Sukses terhapus", MsgBoxStyle.Information, "Pesan")
End Sub
```

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```
Private Sub Button4_Click_1(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button4.Click
    kon.Open()
    perintah.Connection = kon
    perintah.CommandType = CommandType.Text
    perintah.CommandText = "Update tbmhs set nama = '" & TextBox2.Text & "' where nim = '" & TextBox1.Text & "'"
    perintah.ExecuteNonQuery()
    kon.Close()
    MsgBox("Data Sukses terupdate", MsgBoxStyle.Information, "Pesan")
End Sub
```

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```
Private Sub Form1_Activated(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Activated
    Try
        kon.Open()
        perintah.Connection = kon
        perintah.CommandType = CommandType.Text
        perintah.CommandText = "SELECT kd_program_studi,program_studi FROM prodi"
        cek = perintah.ExecuteReader()
        While cek.Read()
            ComboBox1.Items.Add("'" & cek("program_studi"))
        End While
        kon.Close()
    Catch ex As Exception
        MessageBox.Show("Koneksi Gagal !!!, karena " & ex.Message)
    End Try
    ComboBox1.SelectedIndex = 0
End Sub
```

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```

Private Sub Button3_Click_1(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button3.Click
    kon.Open()
    perintah.Connection = kon
    perintah.CommandType = CommandType.Text
    sql = "SELECT nama,foto FROM tbmhs WHERE nim = @nim" ' ini perintah insert biasa
    Using perintah = New MySqlCommand(sql, kon)
        With perintah
            .Parameters.Clear()
            .Parameters.AddWithValue("@nim", TextBox1.Text)
            .Parameters.AddWithValue("@nama", TextBox2.Text)
            Using cek = .ExecuteReader()
                If cek.HasRows = True Then
                    If cek.Read() Then
                        Dim ms As New IO.MemoryStream(CType(cek.Item("foto"), Byte()))
                        PictureBox1.Image = Image.FromStream(ms)
                    End If
                End If
            End Using
            '.ExecuteNonQuery()
        End With
    End Using
    kon.Close()
End Sub

```

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3. Sehingga Hasilnya menjadi seperti berikut:

### Latihan Data Grid

Nim

Nama

Jurusan

Foto

	nim	nama	jurusan	foto
▶	003	usman endi	Teknik Informatika	
	001	Arie M	Teknik Informatika	
	002	anita arisona	Teknik Informatika	
	004	ari muzakir	Teknik Informatika	
	005	muklis	Teknik Informatika	

4. Sebelumnya buat database seperti yang sudah ditentukan di koding diatas, dan desain seperti berikut :

Nim, nama, jurusan, foto.

127.0.0.1 » latihan » tbmhs

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> 1	<b>nim</b>	varchar(12)	latin1_swedish_ci		No	None		Change  Drop
<input type="checkbox"/> 2	<b>nama</b>	varchar(30)	latin1_swedish_ci		No	None		Change  Drop
<input type="checkbox"/> 3	<b>jurusan</b>	varchar(30)	latin1_swedish_ci		No	None		Change  Drop
<input type="checkbox"/> 4	<b>foto</b>	mediumblob			No	None		Change  Drop