

Nama : Maulana Ibrahim
Kelas : III / TI B

NIM : 2407411032
Hari, Tanggal : Rabu, 29 Oktober 2025

Desain

Komponen yang dipakai:

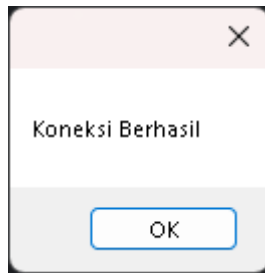
- 1 Form
- 1 TextBox (untuk nama)
- 3 Button (Daftar, Update, dan Delete)
- 3 CheckBox (Untuk hobi)
- 1 ComboBox (Untuk kota asal)
- 1 DataGridView (Untuk menampilkan data yang ada di database)
- 2 Radio Button (Untuk Jenis Kelamin)
- 1 GroupBox, 4 Label, 2 Panel, dan 1 Tabel Layout Panel

Database

	Name	Data Type	Allow Nulls	Default
	Id	int	<input type="checkbox"/>	
	nama	nchar(30)	<input checked="" type="checkbox"/>	
	jenis_kelamin	char(20)	<input checked="" type="checkbox"/>	
	hobi	text	<input checked="" type="checkbox"/>	
	kota_asal	text	<input checked="" type="checkbox"/>	
			<input type="checkbox"/>	

```
CREATE TABLE [dbo].[member] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [nama] NCHAR (30) NULL,  
    [jenis_kelamin] CHAR (20) NULL,  
    [hobi] TEXT NULL,  
    [kota_asal] TEXT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
) ;
```

Run



The 'App' window has a light pink title bar. The main area is divided into a form on the left and a data control panel on the right. The form contains fields for 'Nama:', 'Jenis Kelamin:' (radio buttons for 'Laki-laki' and 'Perempuan'), 'Hobi:' (checkboxes for 'Membaca', 'Menulis', and 'Olahraga'), and 'Kota Asal:' (a dropdown menu). The data control panel has a table with columns 'Id', 'nama', and 'jenis_kelamin'. Below the table are three buttons: 'Daftar', 'Update', and 'Delete'.

The 'App' window shows the registration form with data entered. The 'Nama:' field contains 'Maulana Ibrahim'. The 'Jenis Kelamin:' radio button for 'Laki-laki' is selected. The 'Hobi:' checkboxes for 'Membaca', 'Menulis', and 'Olahraga' are all checked. The 'Kota Asal:' dropdown menu shows 'Depok'. The data control panel remains the same.

A modal dialog box titled 'Data Pendaftaran' with a close button (X) in the top right corner. The text displays the registration data: 'Nama: Maulana Ibrahim', 'Jenis Kelamin: Laki-laki', 'Hobi: Membaca Menulis Olahraga', and 'Kota: Depok'. At the bottom, there is a blue-outlined 'OK' button.

Nama:

Jenis Kelamin:

☐ Laki-laki
☐ Perempuan

Hobi:

☐ Membaca
☐ Menulis
☐ Olahraga

Kota Asal:

	Id	nama	jenis_kelamin
▶	9	Maulana Ibrahi...	Laki-laki
*			

Data Control

Daftar

Update

Delete

Nama:

Maulana Ibrahim

Jenis Kelamin:

☒ Laki-laki
☐ Perempuan

Hobi:

☒ Membaca
☒ Menulis
☒ Olahraga

Kota Asal:

Depok

	Id	nama	jenis_kelamin
▶	9	Maulana Ibrahi...	Laki-laki
*			

Data Control

Daftar

Update

Delete

Nama:

Baim Wong

Jenis Kelamin:

☒ Laki-laki
☐ Perempuan

Hobi:

☐ Membaca
☐ Menulis
☐ Olahraga

Kota Asal:

Depok

	Id	nama	jenis_kelamin
▶	9	Maulana Ibrahi...	Laki-laki

Data Control

Daftar

Update

Delete

Nama:

Jenis Kelamin:

☐ Laki-laki
☐ Perempuan

Hobi:

☐ Membaca
☐ Menulis
☐ Olahraga

Kota Asal:

	Id	nama	jenis_kelamin
▶	9	Baim Wong ...	Laki-laki
*			

Data Control

Daftar

Update

Delete

App

Nama:

Baim Wong

Jenis Kelamin:

☒ Laki-laki
☐ Perempuan

Hobi:

☐ Membaca
☐ Menulis
☐ Olahraga

Kota Asal:

Depok

	Id	nama	jenis_kelamin
▶	9	Baim Wong ...	Laki-laki
•			

Data Control

Daftar

Update

Delete

Konfirmasi

?

Yakin ingin menghapus data ini?

Yes

No

Informasi

i

Data berhasil dihapus!

OK

App

Nama:

Jenis Kelamin:

☐ Laki-laki
☐ Perempuan

Hobi:

☐ Membaca
☐ Menulis
☐ Olahraga

Kota Asal:

	Id	nama	jenis_kelamin
•			

Data Control

Daftar

Update

Delete

Kode Program

```
1 Imports Microsoft.Data.SqlClient
2
3 Public Class App
4     Private connStr = "Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Rizlrad Fz\source\repos\ProyekPertamaVB\Latihan 1\DatabaseAplikasi.mdf;Integrated Security=True"
5     Private id As Integer = -1
```

```
7 Private Sub App_Load(sender As Object, e As EventArgs) Handles MyBase.Load
8     'Isi kota ke combobox
9     ComboBox1.Items.Add("Jakarta")
10    ComboBox1.Items.Add("Bandung")
11    ComboBox1.Items.Add("Surabaya")
12    ComboBox1.Items.Add("Yogyakarta")
13    ComboBox1.Items.Add("Semarang")
14    ComboBox1.Items.Add("Depok")
15
16    Using conn As New SqlConnection(connStr)
17        Try
18            conn.Open()
19            MessageBox.Show("Koneksi Berhasil ")
20            conn.Close()
21        Catch ex As Exception
22            MessageBox.Show("Error: " & ex.Message)
23        End Try
24    End Using
25    TampilData()
26
27    DataGridView1.ReadOnly = True
28 End Sub
```

```
30 Private Sub ResetInputForm()
31     TextBox1.Clear()
32     RadioButton1.Checked = False
33     RadioButton2.Checked = False
34     CheckBox1.Checked = False
35     CheckBox2.Checked = False
36     CheckBox3.Checked = False
37     ComboBox1.SelectedIndex = -1
38     id = -1
39 End Sub
40
41 Private Sub TampilData()
42     Using conn As New SqlConnection(connStr)
43         conn.Open()
44         Using sDA As New SqlDataAdapter("SELECT * FROM member", conn)
45             Dim dt As New DataTable()
46             sDA.Fill(dt)
47             DataGridView1.DataSource = dt
48         End Using
49     End Using
50 End Sub
```

```

52 Private Sub UpdateData(id As Integer, nama As String, jenisKelamin As String, hobi As String, kota As String)
53 Try
54     Using conn As New SqlConnection(connStr)
55         conn.Open()
56         Dim query As String = "UPDATE member SET nama = @nama, jenis_kelamin = @jenis_kelamin,
57                                 hobi = @hobi, kota_asal = @kota_asal WHERE id = @id"
58         Using cmd As New SqlCommand(query, conn)
59             cmd.Parameters.AddWithValue("@id", id)
60             cmd.Parameters.AddWithValue("@nama", nama)
61             cmd.Parameters.AddWithValue("@jenis_kelamin", jenisKelamin)
62             cmd.Parameters.AddWithValue("@hobi", hobi)
63             cmd.Parameters.AddWithValue("@kota_asal", kota)
64             cmd.ExecuteNonQuery()
65         End Using
66     End Using
67     ResetInputForm()
68     TampilData()
69 Catch ex As Exception
70     MessageBox.Show("Error: " & ex.Message)
71 End Try
72 End Sub

```

```

74 Private Sub DeleteData(id As Integer)
75 Try
76     Using conn As New SqlConnection(connStr)
77         conn.Open()
78         Dim query As String = "DELETE FROM member WHERE id=@id"
79         Using cmd As New SqlCommand(query, conn)
80             cmd.Parameters.AddWithValue("@id", id)
81             Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
82             If rowsAffected > 0 Then
83                 MessageBox.Show("Data berhasil dihapus!", "Informasi", MessageBoxButtons.OK, MessageBoxIcon.Information)
84                 'Kosongkan input setelah hapus
85                 ResetInputForm()
86                 TampilData()
87             Else
88                 MessageBox.Show("Data tidak ditemukan!", "Kesalahan", MessageBoxButtons.OK, MessageBoxIcon.Error)
89             End If
90         End Using
91     End Using
92 Catch ex As Exception
93     MessageBox.Show("Error: " & ex.Message)
94 End Try
95 End Sub

```

```

97 Private Sub InsertData(nama As String, jenisKelamin As String, hobi As String, kota As String)
98 Try
99     Using conn As New SqlConnection(connStr)
100         conn.Open()
101         Dim query As String = "INSERT INTO member (nama, jenis_kelamin, hobi, kota_asal) VALUES
102                                 (@nama, @jenis_kelamin, @hobi, @kota_asal)"
103         Using cmd As New SqlCommand(query, conn)
104             cmd.Parameters.AddWithValue("@nama", nama)
105             cmd.Parameters.AddWithValue("@jenis_kelamin", jenisKelamin)
106             cmd.Parameters.AddWithValue("@hobi", hobi)
107             cmd.Parameters.AddWithValue("@kota_asal", kota)
108             cmd.ExecuteNonQuery()
109         End Using
110     End Using
111
112     ResetInputForm()
113
114     TampilData()
115 Catch ex As Exception
116     MessageBox.Show("Error: " & ex.Message)
117 End Try
118 End Sub

```

```

120 Private Sub DataGridView1_CellClick(sender As Object, e As DataGridViewCellEventArgs) Handles DataGridView1.CellClick
121     If e.RowIndex >= 0 And DataGridView1.Rows.Count > 1 Then
122         Try
123             id = Convert.ToInt32(Trim(DataGridView1.Rows(e.RowIndex).Cells("id").Value.ToString()))
124
125             TextBox1.Text = Trim(DataGridView1.Rows(e.RowIndex).Cells("nama").Value.ToString())
126             Dim jenisk As String
127             jenisk = Trim(DataGridView1.Rows(e.RowIndex).Cells("jenis_kelamin").Value.ToString())
128             If jenisk = "Laki-laki" Then
129                 RadioButton1.Checked = True
130             End If
131             If jenisk = "Perempuan" Then
132                 RadioButton2.Checked = True
133             End If
134
135             Dim hobi As String = ""
136             hobi = Trim(DataGridView1.Rows(e.RowIndex).Cells("hobi").Value.ToString())
137             If hobi.Contains("Membaca") Then
138                 CheckBox1.Checked = True
139             End If
140             If hobi.Contains("Menulis") Then
141                 CheckBox2.Checked = True
142             End If
143             If hobi.Contains("Olahraga") Then
144                 CheckBox3.Checked = True
145             End If
146
147             ComboBox1.Text = Trim(DataGridView1.Rows(e.RowIndex).Cells("kota_asal").Value.ToString())
148         Catch ex As Exception
149             MessageBox.Show("Silahkan pilih data yang tersedia!" & vbCrLf & ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
150         End Try
151     End If
152 End Sub

```

```

154 Private Sub ButtonDaftar_Click(sender As Object, e As EventArgs) Handles ButtonDaftar.Click
155     'Ambil data dari textbox nama'
156     Dim nama = TextBox1.Text
157
158     'Ambil data dari radiobutton
159     Dim jenisKelamin = ""
160     If RadioButton1.Checked Then
161         jenisKelamin = "Laki-laki"
162     ElseIf RadioButton2.Checked Then
163         jenisKelamin = "Perempuan"
164     Else
165         jenisKelamin = "Tidak diisi"
166     End If
167
168     'Ambil data dari checkbox
169     Dim hobi = ""
170     If CheckBox1.Checked Then hobi &= CheckBox1.Text
171     If CheckBox2.Checked Then hobi &= CheckBox2.Text
172     If CheckBox3.Checked Then hobi &= CheckBox3.Text
173
174     'Ambil kota dari combobox
175     Dim kota = ComboBox1.Text
176
177     InsertData(nama:=nama, jenisKelamin:=jenisKelamin, hobi:=hobi, kota:=kota)
178
179     'tampilkan hasilnya
180     MessageBox.Show("Nama: " & nama & vbCrLf &
181         "Jenis Kelamin: " & jenisKelamin & vbCrLf &
182         "Hobi: " & hobi & vbCrLf &
183         "Kota: " & kota, "Data Pendaftaran")
184 End Sub

```

```

186 Private Sub ButtonUpdate_Click(sender As Object, e As EventArgs) Handles ButtonUpdate.Click
187     If id = -1 Then
188         MessageBox.Show("Pilih data yang akan diupdate dari tabel terlebih dahulu.")
189     Exit Sub
190 End If
191
192 UpdateData(id:=id,
193     nama:=TextBox1.Text,
194     jenisKelamin:=If(RadioButton1.Checked, "Laki-laki", If(RadioButton2.Checked, "Perempuan", "")),
195     hobi:=If(CheckBox1.Checked, CheckBox1.Text, "") & If(CheckBox2.Checked, CheckBox2.Text, "") & If(CheckBox3.Checked, CheckBox3.Text, ""),
196     kota:=ComboBox1.Text)
197 End Sub

```

```
199 Private Sub ButtonDelete_Click(sender As Object, e As EventArgs) Handles ButtonDelete.Click
200     If id = -1 Then
201         MessageBox.Show("Pilih data yang akan dihapus dari tabel terlebih dahulu.")
202         Exit Sub
203     End If
204
205     'Konfirmasi sebelum hapus
206     Dim result As DialogResult = MessageBox.Show("Yakin ingin menghapus data ini?", "Konfirmasi", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
207
208     If result = DialogResult.Yes Then
209         DeleteData(id)
210         ResetInputForm()
211     End If
212 End Sub
213 End Class
```