Nama   : Muhammad Hadiseptian Nursukamto
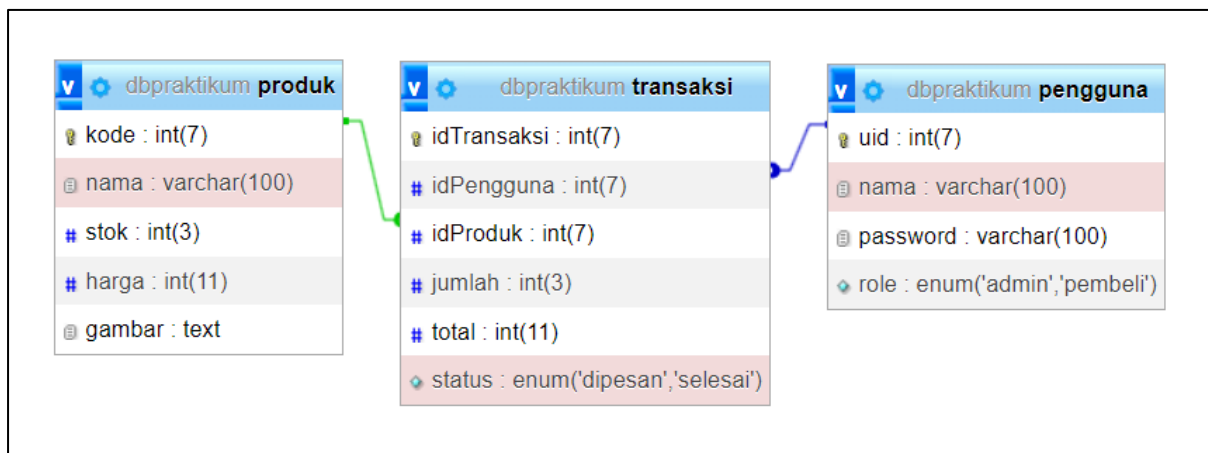
NIM   : 2109106058   Kelas   : B1'21

Posttest 6

1. Link Video Demo Program

https://youtu.be/CgUmthCbntc

2. Screenshot Tabel Database

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	uid 🔑	int(7)			No	*None*		AUTO_INCREMENT	🖉 Change	⊖ Drop	More
2	nama	varchar(100)	utf8mb4_general_ci		No	*None*			🖉 Change	⊖ Drop	More
3	password	varchar(100)	utf8mb4_general_ci		No	*None*			🖉 Change	⊖ Drop	More
4	role	enum('admin', 'pembeli')	utf8mb4_general_ci		No	*None*			🖉 Change	⊖ Drop	More

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	kode 🔑	int(7)			No	*None*		AUTO_INCREMENT	🖉 Change	⊖ Drop	More
2	nama	varchar(100)	utf8mb4_general_ci		No	*None*			🖉 Change	⊖ Drop	More
3	stok	int(3)			No	*None*			🖉 Change	⊖ Drop	More
4	harga	int(11)			No	*None*			🖉 Change	⊖ Drop	More
5	gambar	text	utf8mb4_general_ci		No	*None*			🖉 Change	⊖ Drop	More

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	idTransaksi 🔑	int(7)			No	None		AUTO_INCREMENT	Change	Drop	More
2	idPengguna 🔑	int(7)			No	None			Change	Drop	More
3	idProduk 🔑	int(7)			No	None			Change	Drop	More
4	jumlah	int(3)			No	None			Change	Drop	More
5	total	int(11)			No	None			Change	Drop	More
6	status	enum('dipesan', 'selesai')	utf8mb4_general_ci		No	None			Change	Drop	More

3. Source Code Program

Link Github

https://github.com/IAmGroots/Praktikum-Pemrograman-Visual

Module Bantuan

```vb
Imports MySql.Data.MySqlClient

Module Bantuan
    Public PATH_GAMBAR As String = CurDir() & "\Database Gambar\"
    Public CONN As MySqlConnection
    Public CMD As MySqlCommand
    Public RD As MySqlDataReader
    Public DA As MySqlDataAdapter
    Public DS As DataSet
    Public DATABASE As String
    Public UID As String
    Public ROLE_AKTIF As String

    Sub koneksi()
        Try
            Dim DATABASE As String =
"server=localhost;userid=root;password=;database=dbPraktikum"
            CONN = New MySqlConnection(DATABASE)
            If CONN.State = ConnectionState.Closed Then
                CONN.Open()
            End If
        Catch ex As Exception
            MessageBox.Show(ex.Message)
        End Try
    End Sub
End Module
```

Form Login

```vb
Imports MySql.Data.MySqlClient

Public Class Login
    Private Sub Login_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
```

```vb
        koneksi()
        pctBackground.ImageLocation = PATH_GAMBAR & "background2.png"
        txtUsername.Focus()
    End Sub

    Private Sub btnGoogle_Click(sender As Object, e As EventArgs) Handles
btnGoogle.Click
        MsgBox("Fitur masih dalam tahap pengembangan")
    End Sub

    Private Sub btnFacebook_Click(sender As Object, e As EventArgs) Handles
btnFacebook.Click
        MsgBox("Fitur masih dalam tahap pengembangan")
    End Sub

    Private Sub btnTwitter_Click(sender As Object, e As EventArgs) Handles
btnTwitter.Click
        MsgBox("Fitur masih dalam tahap pengembangan")
    End Sub

    Private Sub lblDaftar_Click(sender As Object, e As EventArgs) Handles
lblDaftar.Click
        MsgBox("Fitur masih dalam tahap pengembangan")
    End Sub

    Private Sub txtUsername_GotFocus(sender As Object, e As EventArgs) Handles
txtUsername.GotFocus
        lblUsername.ForeColor = Color.MediumSeaGreen
    End Sub

    Private Sub txtUsername_LostFocus(sender As Object, e As EventArgs) Handles
txtUsername.LostFocus
        lblUsername.ForeColor = Color.DimGray
    End Sub

    Private Sub txtPassword_GotFocus(sender As Object, e As EventArgs) Handles
txtPassword.GotFocus
        lblPassword.ForeColor = Color.MediumSeaGreen
    End Sub

    Private Sub txtPassword_LostFocus(sender As Object, e As EventArgs) Handles
txtPassword.LostFocus
        lblPassword.ForeColor = Color.DimGray
    End Sub

    Private Sub lblDaftar_MouseEnter(sender As Object, e As EventArgs) Handles
lblDaftar.MouseEnter
        lblDaftar.ForeColor = Color.MediumSeaGreen
    End Sub

    Private Sub txtUsername_KeyPress(sender As Object, e As KeyPressEventArgs)
Handles txtUsername.KeyPress
        If e.KeyChar = Chr(13) Then
            txtPassword.Focus()
        End If
    End Sub

    Private Sub txtPassword_KeyPress(sender As Object, e As KeyPressEventArgs)
Handles txtPassword.KeyPress
        If e.KeyChar = Chr(13) Then
            btnMasuk.PerformClick()
        End If
    End Sub
```

```vbnet
    Private Sub btnMasuk_Click(sender As Object, e As EventArgs) Handles
btnMasuk.Click
        If txtUsername.Text = "" And txtPassword.Text = "" Then
            lblUsername.ForeColor = Color.Tomato
            lblPassword.ForeColor = Color.Tomato
            txtUsername.Focus()
            Return
        ElseIf txtUsername.Text = "" Then
            lblUsername.ForeColor = Color.Tomato
            txtUsername.Focus()
            Return
        ElseIf txtPassword.Text = "" Then
            lblPassword.ForeColor = Color.Tomato
            txtPassword.Focus()
            Return
        End If

        CMD = New MySqlCommand("Select * From pengguna Where nama='" &
txtUsername.Text & "' and password='" & txtPassword.Text & "'", CONN)
        RD = CMD.ExecuteReader
        RD.Read()
        If RD.HasRows Then
            Dim role As String = RD.GetString(3)
            Dim idPengguna As String = RD.GetString(0)
            RD.Close()
            If role = "admin" Then
                UID = idPengguna
                ROLE_AKTIF = role
                Admin.Show()
                Me.Close()
            Else
                UID = idPengguna
                ROLE_AKTIF = role
                Pembeli.Show()
                Me.Close()
            End If
        ElseIf Not RD.HasRows Then
            RD.Close()
            MessageBox.Show("Periksa kembali Username dan Password",
"Peringatan", MessageBoxButtons.OK, MessageBoxIcon.Error)
            txtUsername.Focus()
            txtUsername.Text = ""
            txtPassword.Text = ""
        End If
    End Sub
End Class
```

Form Admin

```vbnet
Imports MySql.Data.MySqlClient

Public Class Admin
    Sub tampilkanPanel(ByVal namaForm As Form)
        namaForm.TopLevel = False
        namaForm.WindowState = FormWindowState.Maximized
        panelUtama.Controls.Add(namaForm)
        namaForm.Show()
    End Sub
```

```vb
    Private Sub btnTambah_Click(sender As Object, e As EventArgs) Handles
btnTambah.Click
        Dim form = New Tambah
        tampilkanPanel(form)
    End Sub

    Private Sub btnTambah_MouseEnter(sender As Object, e As EventArgs) Handles
btnTambah.MouseEnter
        btnTambah.BackColor = Color.Green
    End Sub

    Private Sub btnTambah_MouseLeave(sender As Object, e As EventArgs) Handles
btnTambah.MouseLeave
        btnTambah.BackColor = Color.ForestGreen
    End Sub

    Private Sub txtCari_Leave(sender As Object, e As EventArgs) Handles
txtCari.Leave
        If txtCari.Text = "" Then
            txtCari.ForeColor = Color.Gray
            txtCari.Text = " Cari di Tokopaedi"
        End If
    End Sub

    Private Sub txtCari_Enter(sender As Object, e As EventArgs) Handles
txtCari.Enter
        txtCari.ForeColor = Color.Black
        txtCari.Text = ""
    End Sub

    Private Sub txtCari_KeyPress(sender As Object, e As KeyPressEventArgs)
Handles txtCari.KeyPress
        If e.KeyChar = Chr(13) Then
            Dim form = New HasilCari
            tampilkanPanel(form)
            txtCari.ForeColor = Color.Gray
            txtCari.Text = " Cari di Tokopaedi"
        End If
    End Sub

    Private Sub btnCari_Click(sender As Object, e As EventArgs) Handles
btnCari.Click
        Dim form = New HasilCari
        tampilkanPanel(form)
        txtCari.ForeColor = Color.Gray
        txtCari.Text = " Cari di Tokopaedi"
    End Sub

    Private Sub btnRefresh_Click(sender As Object, e As EventArgs) Handles
btnRefresh.Click
        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub

    Private Sub btnKeluar_MouseEnter(sender As Object, e As EventArgs) Handles
btnKeluar.MouseEnter
        btnKeluar.ForeColor = Color.White
        btnKeluar.BackColor = Color.Tomato
    End Sub

    Private Sub btnKeluar_MouseLeave(sender As Object, e As EventArgs) Handles
btnKeluar.MouseLeave
        btnKeluar.ForeColor = Color.Black
```

```
            btnKeluar.BackColor = Color.Transparent
    End Sub

    Private Sub btnKeluar_Click(sender As Object, e As EventArgs) Handles
btnKeluar.Click
        Login.Show()
        Me.Close()
    End Sub

    Private Sub Main_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        koneksi()

        txtCari.ForeColor = Color.Gray
        txtCari.Text = " Cari di Tokopaedi"
        pctProfile.ImageLocation = PATH_GAMBAR & "profile.png"

        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub
End Class
```

Form Lihat

```
Imports MySql.Data.MySqlClient

Public Class Lihat
    Private Sub Create_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        koneksi()
        If ROLE_AKTIF = "admin" Then
            Admin.txtCari.Visible = True
            Admin.btnCari.Visible = True
            Admin.btnTambah.Visible = True
            Admin.btnRefresh.Visible = True

            DA = New MySqlDataAdapter("Select * From produk", CONN)
            DS = New DataSet
            DS.Clear()
            DA.Fill(DS, "produk")

            Dim dt As DataTable = DS.Tables("produk")
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris - 1, jmlKolom - 1) As String
            For i As Integer = 0 To jmlBaris - 1
                lblKosong.Visible = False
                For j As Integer = 0 To jmlKolom - 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                Dim produk As New Produk
                With produk
                    .KodeProduk.Text = array(i, 0)
                    .NamaProduk.Text = array(i, 1)
                    Dim hrg As Integer = array(i, 3)
                    .HargaProduk.Text = "Rp " & FormatNumber(hrg, 0,
TriState.True)

                    .pctProduk.ImageLocation = PATH_GAMBAR & array(i, 4)
                End With
                produk.TopLevel = False
                FlowLayoutPanel1.Controls.Add(produk)
```

```vbnet
                    produk.Show()
                Next
            Else
                DA = New MySqlDataAdapter("Select * From produk", CONN)
                DS = New DataSet
                DS.Clear()
                DA.Fill(DS, "produk")

                Dim dt As DataTable = DS.Tables("produk")
                Dim jmlBaris As Integer = dt.Rows.Count
                Dim jmlKolom As Integer = dt.Columns.Count
                Dim array(jmlBaris - 1, jmlKolom - 1) As String
                For i As Integer = 0 To jmlBaris - 1
                    lblKosong.Visible = False
                    For j As Integer = 0 To jmlKolom - 1
                        array(i, j) = dt.Rows(i).Item(j).ToString()
                    Next
                    Dim produk As New TampilanProduk
                    With produk
                        .KodeProduk.Text = array(i, 0)
                        .NamaProduk.Text = array(i, 1)
                        Dim hrg As Integer = array(i, 3)
                        .HargaProduk.Text = "Rp " & FormatNumber(hrg, 0,
TriState.True)

                        .pctProduk.ImageLocation = PATH_GAMBAR & array(i, 4)
                    End With
                    produk.TopLevel = False
                    FlowLayoutPanel1.Controls.Add(produk)
                    produk.Show()
                Next
            End If
        End Sub
End Class
```

Form Tambah

```vbnet
Imports System.IO
Imports MySql.Data.MySqlClient

Public Class Tambah
    Sub bersihkan()
        txtNamaProduk.Text = ""
        txtStokProduk.Text = 0
        txtHargaProduk.Text = 0
        pctGambarProduk.Image = Nothing
        txtNamaProduk.Focus()
        clickMe.Visible = True
    End Sub

    Sub tampilkanPanel(ByVal namaForm As Form)
        namaForm.TopLevel = False
        namaForm.WindowState = FormWindowState.Maximized
        Admin.panelUtama.Controls.Add(namaForm)
        namaForm.Show()
    End Sub

    Private Sub pctGambarProduk_Click(sender As Object, e As EventArgs) Handles
pctGambarProduk.Click
        opnfileGambar.FileName = ""
```

```vbnet
        opnfileGambar.Filter = "JPG Files (*.jpg)|*.jpg|JPEG Files
(*.jpeg)|*.jpeg|PNG Files (*.png)|*.png"
        If opnfileGambar.ShowDialog() = DialogResult.OK Then
            clickMe.Visible = False
            Dim lokasiAsal As String = opnfileGambar.FileName
            Dim namaFile As String = Path.GetFileName(lokasiAsal)
            Dim lokasiTujuan As String = Path.Combine(PATH_GAMBAR, namaFile)

            DA = New MySqlDataAdapter("Select * From produk", CONN)
            DS = New DataSet
            DS.Clear()
            DA.Fill(DS, "produk")

            Dim dt As DataTable = DS.Tables("produk")
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris – 1, jmlKolom – 1) As String
            For i As Integer = 0 To jmlBaris – 1
                For j As Integer = 0 To jmlKolom – 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                If array(i, 4) = namaFile Then
                    MsgBox("Gambar sudah tersedia", MsgBoxStyle.Information,
"Pemberitahuan")
                    clickMe.Visible = True
                    Return
                End If
            Next

            pctGambarProduk.Image = Image.FromFile(lokasiAsal)
            File.Copy(lokasiAsal, lokasiTujuan, True)
        End If
    End Sub

    Private Sub clickMe_Click(sender As Object, e As EventArgs) Handles
clickMe.Click
        opnfileGambar.FileName = ""
        opnfileGambar.Filter = "JPG Files (*.jpg)|*.jpg|JPEG Files
(*.jpeg)|*.jpeg|PNG Files (*.png)|*.png"
        If opnfileGambar.ShowDialog() = DialogResult.OK Then
            clickMe.Visible = False
            Dim lokasiAsal As String = opnfileGambar.FileName
            Dim namaFile As String = Path.GetFileName(lokasiAsal)
            Dim lokasiTujuan As String = Path.Combine(PATH_GAMBAR, namaFile)

            DA = New MySqlDataAdapter("Select * From produk", CONN)
            DS = New DataSet
            DS.Clear()
            DA.Fill(DS, "produk")

            Dim dt As DataTable = DS.Tables("produk")
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris – 1, jmlKolom – 1) As String
            For i As Integer = 0 To jmlBaris – 1
                For j As Integer = 0 To jmlKolom – 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                If array(i, 4) = namaFile Then
                    MsgBox("Gambar sudah tersedia", MsgBoxStyle.Information,
"Pemberitahuan")
                    clickMe.Visible = True
                    Return
```

```vbnet
                End If
            Next

            pctGambarProduk.Image = Image.FromFile(lokasiAsal)
            File.Copy(lokasiAsal, lokasiTujuan, True)
        End If
    End Sub

    Private Sub txtNamaProduk_KeyPress(sender As Object, e As
KeyPressEventArgs) Handles txtNamaProduk.KeyPress
        If e.KeyChar = Chr(13) Then
            txtStokProduk.Focus()
        End If
    End Sub

    Private Sub txtStokProduk_KeyPress(sender As Object, e As
KeyPressEventArgs) Handles txtStokProduk.KeyPress
        If Asc(e.KeyChar) <> 8 Then
            If Asc(e.KeyChar) < 48 Or Asc(e.KeyChar) > 57 Then
                e.Handled = True
            End If
        End If

        If e.KeyChar = Chr(13) Then
            txtHargaProduk.Focus()
        End If
    End Sub

    Private Sub txtHargaProduk_KeyPress(sender As Object, e As
KeyPressEventArgs) Handles txtHargaProduk.KeyPress
        If Asc(e.KeyChar) <> 8 Then
            If Asc(e.KeyChar) < 48 Or Asc(e.KeyChar) > 57 Then
                e.Handled = True
            End If
        End If

        If e.KeyChar = Chr(13) Then
            clickMe.PerformClick()
        End If
    End Sub

    Private Sub btnSimpan_Click(sender As Object, e As EventArgs) Handles
btnSimpan.Click
        If txtNamaProduk.Text = "" Then
            txtNamaProduk.Focus()
            Return
        ElseIf txtStokProduk.Text = 0 Then
            txtStokProduk.Focus()
            Return
        ElseIf txtHargaProduk.Text = 0 Then
            txtHargaProduk.Focus()
            Return
        ElseIf pctGambarProduk.Image.Equals(Nothing) Then
            MsgBox("Gambar belum diisi", MsgBoxStyle.Information,
"Pemberitahuan")
            Return
        End If

        Dim namaProduk As String = txtNamaProduk.Text
        Dim stokProduk As Integer = txtStokProduk.Text
        Dim hargaProduk As Integer = txtHargaProduk.Text
        Dim gambarProduk As String = Path.GetFileName(opnfileGambar.FileName)
```

```vbnet
        'kode nama stok harga gambar
        Dim query As String = "Insert Into produk(kode, nama, stok, harga,
gambar) Values (NULL, '" & namaProduk & "', '" & stokProduk & "', '" &
hargaProduk & "', '" & gambarProduk & "')"
        CMD = New MySqlCommand(query, CONN)
        CMD.ExecuteNonQuery()
        MsgBox("Produk Berhasil Ditambahkan", MsgBoxStyle.Information,
"Pemberitahuan")
        bersihkan()

        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub

    Private Sub btnBatal_Click(sender As Object, e As EventArgs) Handles
btnBatal.Click
        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub

    Private Sub Tambah_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        koneksi()
        Admin.txtCari.Visible = False
        Admin.btnCari.Visible = False
        Admin.btnTambah.Visible = False
        Admin.btnRefresh.Visible = False
        bersihkan()
    End Sub
End Class
```

Form Ubah

```vbnet
Imports MySql.Data.MySqlClient
Imports System.IO

Public Class Ubah
    Dim gambarLama As String
    Sub bersihkan()
        txtNamaProduk.Text = ""
        txtStokProduk.Text = 0
        txtHargaProduk.Text = 0
        pctGambarProduk.Image = Nothing
        txtNamaProduk.Focus()
        clickMe.Visible = True
    End Sub
    Sub tampilkanPanel(ByVal namaForm As Form)
        namaForm.TopLevel = False
        namaForm.WindowState = FormWindowState.Maximized
        Admin.panelUtama.Controls.Add(namaForm)
        namaForm.Show()
    End Sub

    Private Sub pctGambarProduk_Click(sender As Object, e As EventArgs) Handles
pctGambarProduk.Click
        opnfileGambar.FileName = ""
        opnfileGambar.Filter = "JPG Files (*.jpg)|*.jpg|JPEG Files
(*.jpeg)|*.jpeg|PNG Files (*.png)|*.png"
        If opnfileGambar.ShowDialog() = DialogResult.OK Then
            clickMe.Visible = False
            Dim lokasiAsal As String = opnfileGambar.FileName
```

```vbnet
            Dim namaFile As String = Path.GetFileName(lokasiAsal)
            Dim lokasiTujuan As String = Path.Combine(PATH_GAMBAR, namaFile)

            DA = New MySqlDataAdapter("Select * From produk", CONN)
            DS = New DataSet
            DS.Clear()
            DA.Fill(DS, "produk")

            Dim dt As DataTable = DS.Tables("produk")
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris - 1, jmlKolom - 1) As String
            For i As Integer = 0 To jmlBaris - 1
                For j As Integer = 0 To jmlKolom - 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                If array(i, 4) = namaFile Then
                    MsgBox("Gambar sudah tersedia", MsgBoxStyle.Information,
"Pemberitahuan")
                    clickMe.Visible = True
                    Return
                End If
            Next

            pctGambarProduk.Image = Image.FromFile(lokasiAsal)
            File.Copy(lokasiAsal, lokasiTujuan, True)
        End If
    End Sub

    Private Sub clickMe_Click(sender As Object, e As EventArgs) Handles
clickMe.Click
        opnfileGambar.FileName = ""
        opnfileGambar.Filter = "JPG Files (*.jpg)|*.jpg|JPEG Files
(*.jpeg)|*.jpeg|PNG Files (*.png)|*.png"
        If opnfileGambar.ShowDialog() = DialogResult.OK Then
            clickMe.Visible = False
            Dim lokasiAsal As String = opnfileGambar.FileName
            Dim namaFile As String = Path.GetFileName(lokasiAsal)
            Dim lokasiTujuan As String = Path.Combine(PATH_GAMBAR, namaFile)

            DA = New MySqlDataAdapter("Select * From produk", CONN)
            DS = New DataSet
            DS.Clear()
            DA.Fill(DS, "produk")

            Dim dt As DataTable = DS.Tables("produk")
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris - 1, jmlKolom - 1) As String
            For i As Integer = 0 To jmlBaris - 1
                For j As Integer = 0 To jmlKolom - 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                If array(i, 4) = namaFile Then
                    MsgBox("Gambar sudah tersedia", MsgBoxStyle.Information,
"Pemberitahuan")
                    clickMe.Visible = True
                    Return
                End If
            Next

            pctGambarProduk.Image = Image.FromFile(lokasiAsal)
            File.Copy(lokasiAsal, lokasiTujuan, True)
```

```vbnet
        End If
    End Sub

    Private Sub txtNamaProduk_KeyPress(sender As Object, e As
KeyPressEventArgs) Handles txtNamaProduk.KeyPress
        If e.KeyChar = Chr(13) Then
            txtStokProduk.Focus()
        End If
    End Sub

    Private Sub txtStokProduk_KeyPress(sender As Object, e As
KeyPressEventArgs) Handles txtStokProduk.KeyPress
        If Asc(e.KeyChar) <> 8 Then
            If Asc(e.KeyChar) < 48 Or Asc(e.KeyChar) > 57 Then
                e.Handled = True
            End If
        End If

        If e.KeyChar = Chr(13) Then
            txtHargaProduk.Focus()
        End If
    End Sub

    Private Sub txtHargaProduk_KeyPress(sender As Object, e As
KeyPressEventArgs) Handles txtHargaProduk.KeyPress
        If Asc(e.KeyChar) <> 8 Then
            If Asc(e.KeyChar) < 48 Or Asc(e.KeyChar) > 57 Then
                e.Handled = True
            End If
        End If

        If e.KeyChar = Chr(13) Then
            clickMe.PerformClick()
        End If
    End Sub

    Private Sub btnSimpan_Click(sender As Object, e As EventArgs) Handles
btnSimpan.Click
        If txtNamaProduk.Text = "" Then
            txtNamaProduk.Focus()
            Return
        ElseIf txtStokProduk.Text = 0 Then
            txtStokProduk.Focus()
            Return
        ElseIf txtHargaProduk.Text = 0 Then
            txtHargaProduk.Focus()
            Return
        ElseIf pctGambarProduk.Image.Equals(Nothing) Then
            MsgBox("Gambar belum diisi", MsgBoxStyle.Information,
"Pemberitahuan")
            Return
        End If

        Dim kodeProduk As String = txtKode.Text
        Dim namaProduk As String = txtNamaProduk.Text
        Dim stokProduk As Integer = txtStokProduk.Text
        Dim hargaProduk As Integer = txtHargaProduk.Text
        Dim gambarProduk As String
        If Path.GetFileName(opnfileGambar.FileName) = "" Then
            gambarProduk = gambarLama
        Else
            gambarProduk = Path.GetFileName(opnfileGambar.FileName)
        End If
```

```vbnet
        'kode nama stok harga gambar
        Dim query As String = "Update produk Set nama='" & namaProduk & "',
stok='" & stokProduk & "', harga='" & hargaProduk & "', gambar='" &
gambarProduk & "' Where kode='" & kodeProduk & "'"
        CMD = New MySqlCommand(query, CONN)
        CMD.ExecuteNonQuery()
        MsgBox("Produk Berhasil Diperbarui", MsgBoxStyle.Information,
"Pemberitahuan")
        bersihkan()

        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub

    Private Sub btnBatal_Click(sender As Object, e As EventArgs) Handles
btnBatal.Click
        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub

    Private Sub Ubah_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        koneksi()
        Admin.txtCari.Visible = False
        Admin.btnCari.Visible = False
        Admin.btnTambah.Visible = False
        Admin.btnRefresh.Visible = False

        DA = New MySqlDataAdapter("Select * From produk", CONN)
        DS = New DataSet
        DS.Clear()
        DA.Fill(DS, "produk")

        Dim dt As DataTable = DS.Tables("produk")
        Dim jmlBaris As Integer = dt.Rows.Count
        Dim jmlKolom As Integer = dt.Columns.Count
        Dim array(jmlBaris - 1, jmlKolom - 1) As String
        For i As Integer = 0 To jmlBaris - 1
            For j As Integer = 0 To jmlKolom - 1
                array(i, j) = dt.Rows(i).Item(j).ToString()
            Next
            If array(i, 0) = txtKode.Text Then
                gambarLama = array(i, 4)
            End If
        Next
    End Sub
End Class
```

Form HasilCari

```vbnet
Imports MySql.Data.MySqlClient

Public Class HasilCari
    Private Sub hasilCari_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        koneksi()
        Admin.txtCari.Visible = True
        Admin.btnCari.Visible = True
        Admin.btnTambah.Visible = True

        Dim target As String = Admin.txtCari.Text
```

```vbnet
        CMD = New MySqlCommand("Select * From produk where nama like '%" &
target & "%'", CONN)
        RD = CMD.ExecuteReader
        RD.Read()

        If RD.HasRows Then
            RD.Close()
            DA = New MySqlDataAdapter("Select * From produk where nama like '%"
& target & "%'", CONN)
            DS = New DataSet
            DA.Fill(DS, "produk")

            Dim dt As DataTable = DS.Tables("produk")
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris - 1, jmlKolom - 1) As String
            For i As Integer = 0 To jmlBaris - 1
                lblKosong.Visible = False
                For j As Integer = 0 To jmlKolom - 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                Dim produk As New Produk
                With produk
                    .KodeProduk.Text = array(i, 0)
                    .NamaProduk.Text = array(i, 1)
                    Dim hrg As Integer = array(i, 3)
                    .HargaProduk.Text = "Rp " & FormatNumber(hrg, 0,
TriState.True)
                    .pctProduk.ImageLocation = PATH_GAMBAR & array(i, 4)
                End With
                produk.TopLevel = False
                FlowLayoutPanel1.Controls.Add(produk)
                produk.Show()
            Next
        Else
            RD.Close()
            lblKosong.Visible = True
        End If
    End Sub
End Class
```

Form Produk

```vbnet
Imports MySql.Data.MySqlClient

Public Class Produk
    Sub tampilkanPanel(ByVal namaForm As Form)
        namaForm.TopLevel = False
        namaForm.WindowState = FormWindowState.Maximized
        Admin.panelUtama.Controls.Add(namaForm)
        namaForm.Show()
    End Sub

    Private Sub btnUbah_Click(sender As Object, e As EventArgs) Handles
btnUbah.Click
        DA = New MySqlDataAdapter("Select * From produk", CONN)
        DS = New DataSet
        DS.Clear()
        DA.Fill(DS, "produk")

        Dim dt As DataTable = DS.Tables("produk")
```

```vb
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris - 1, jmlKolom - 1) As String
            For i As Integer = 0 To jmlBaris - 1
                For j As Integer = 0 To jmlKolom - 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                If array(i, 0) = KodeProduk.Text Then
                    Dim form = New Ubah
                    form.txtKode.Text = array(i, 0)
                    form.txtNamaProduk.Text = array(i, 1)
                    form.txtStokProduk.Text = array(i, 2)
                    form.txtHargaProduk.Text = array(i, 3)
                    form.pctGambarProduk.ImageLocation = PATH_GAMBAR & array(i, 4)
                    tampilkanPanel(Form)
                End If
            Next
    End Sub

    Private Sub btnHapus_Click(sender As Object, e As EventArgs) Handles
btnHapus.Click
        Dim hapus As String
        hapus = MessageBox.Show("Anda Yakin Hapus Produk?", "Konfirmasi",
MessageBoxButtons.YesNo, MessageBoxIcon.Question)

        If hapus = MsgBoxResult.Yes Then
            Dim kode As String = KodeProduk.Text
            'kode nama stok harga gambar
            Dim query As String = "Delete From produk Where kode='" & kode &
"'"
            CMD = New MySqlCommand(query, CONN)
            CMD.ExecuteNonQuery()
            MsgBox("Produk Berhasil Dihapus", MsgBoxStyle.Information,
"Pemberitahuan")
        Else
            Exit Sub
        End If

        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub


    Private Sub NamaProduk_MouseEnter(sender As Object, e As EventArgs) Handles
NamaProduk.MouseEnter
        NamaProduk.BackColor = Color.LightCyan
    End Sub

    Private Sub NamaProduk_MouseLeave(sender As Object, e As EventArgs) Handles
NamaProduk.MouseLeave
        NamaProduk.BackColor = Color.Transparent
    End Sub

    Private Sub HargaProduk_MouseEnter(sender As Object, e As EventArgs)
Handles HargaProduk.MouseEnter
        HargaProduk.BackColor = Color.LightCyan
    End Sub

    Private Sub HargaProduk_MouseLeave(sender As Object, e As EventArgs)
Handles HargaProduk.MouseLeave
        HargaProduk.BackColor = Color.Transparent
    End Sub
End Class
```

Form Pembeli

```vbnet
Public Class Pembeli
    Sub tampilkanPanel(ByVal namaForm As Form)
        namaForm.TopLevel = False
        namaForm.WindowState = FormWindowState.Maximized
        panelUtama.Controls.Add(namaForm)
        namaForm.Show()
    End Sub

    Private Sub Pembeli_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        koneksi()

        txtCari.ForeColor = Color.Gray
        txtCari.Text = " Cari di Tokopaedi"
        pctProfile.ImageLocation = PATH_GAMBAR & "profile.png"

        Dim form = New Lihat
        tampilkanPanel(form)
    End Sub

    Private Sub btnKeranjang_Click(sender As Object, e As EventArgs) Handles
btnKeranjang.Click
        Dim form = New Keranjang
        tampilkanPanel(form)
    End Sub

    Private Sub btnKeluar_Click(sender As Object, e As EventArgs) Handles
btnKeluar.Click
        Login.Show()
        Me.Close()
    End Sub

    Private Sub btnKeluar_MouseEnter(sender As Object, e As EventArgs) Handles
btnKeluar.MouseEnter
        btnKeluar.BackColor = Color.Tomato
    End Sub

    Private Sub btnKeluar_MouseLeave(sender As Object, e As EventArgs) Handles
btnKeluar.MouseLeave
        btnKeluar.BackColor = Color.Transparent
    End Sub

    Private Sub btnKeranjang_MouseEnter(sender As Object, e As EventArgs)
Handles btnKeranjang.MouseEnter
        btnKeranjang.BackColor = Color.MediumSeaGreen
    End Sub

    Private Sub btnKeranjang_MouseLeave(sender As Object, e As EventArgs)
Handles btnKeranjang.MouseLeave
        btnKeranjang.BackColor = Color.Transparent
    End Sub
End Class
```

Form Keranjang

```vbnet
Imports MySql.Data.MySqlClient

Public Class Keranjang
    Sub tampilkanPanel(ByVal namaForm As Form)
        namaForm.TopLevel = False
```

```vbnet
            namaForm.WindowState = FormWindowState.Maximized
            Pembeli.panelUtama.Controls.Add(namaForm)
            namaForm.Show()
    End Sub

    Private Sub Keranjang_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
            koneksi()
            Dim totalHrg As Integer = 0
            Dim totalBrng As Integer = 0
            DA = New MySqlDataAdapter("Select * From transaksi Where idPengguna='"
& UID & "'", CONN)
            DS = New DataSet
            DS.Clear()
            DA.Fill(DS, "produk")

            Dim dt As DataTable = DS.Tables("produk")
            Dim jmlBaris As Integer = dt.Rows.Count
            Dim jmlKolom As Integer = dt.Columns.Count
            Dim array(jmlBaris – 1, jmlKolom – 1) As String
            For i As Integer = 0 To jmlBaris – 1
                lblKosong.Visible = False
                For j As Integer = 0 To jmlKolom – 1
                    array(i, j) = dt.Rows(i).Item(j).ToString()
                Next
                Dim produk As New ProdukKeranjang
                With produk
                    .KodeTransaksi.Text = array(i, 0)
                    Dim kodeProduk As String = array(i, 2)
                    CMD = New MySqlCommand("Select * From produk Where kode='" &
kodeProduk & "'", CONN)
                    RD = CMD.ExecuteReader
                    RD.Read()

                    .NamaProduk.Text = RD.GetString(1)
                    Dim hrg As Integer = RD.GetString(3)
                    .HargaProduk.Text = "Rp " & FormatNumber(hrg, 0, TriState.True)
                    .JumlahProduk.Text = array(i, 3)
                    .GambarProduk.ImageLocation = PATH_GAMBAR & RD.GetString(4)
                    Dim total As Integer = array(i, 4)
                    totalHrg += total
                    totalBrng += 1
                    RD.Close()
                End With

                produk.TopLevel = False
                FlowLayoutPanel1.Controls.Add(produk)
                produk.Show()
            Next
            TotalBarang.Text = totalBrng
            TotalHarga.Text = "Rp " & FormatNumber(totalHrg, 0, TriState.True)
    End Sub

    Private Sub btnKembali_Click(sender As Object, e As EventArgs) Handles
btnKembali.Click
            Dim form = New Lihat
            tampilkanPanel(form)
    End Sub

    Private Sub btnKembali_MouseEnter(sender As Object, e As EventArgs) Handles
btnKembali.MouseEnter
            btnKembali.BackColor = Color.Tomato
    End Sub
```

```vbnet
    Private Sub btnKembali_MouseLeave(sender As Object, e As EventArgs) Handles
btnKembali.MouseLeave
        btnKembali.BackColor = Color.Transparent
    End Sub

    Private Sub btnBayar_Click(sender As Object, e As EventArgs) Handles
btnBayar.Click
        MsgBox("Fitur masih dalam tahap pengembangan")
    End Sub
End Class
```

Form ProdukKeranjang

```vbnet
Imports MySql.Data.MySqlClient

Public Class ProdukKeranjang
    Sub tampilkanPanel(ByVal namaForm As Form)
        namaForm.TopLevel = False
        namaForm.WindowState = FormWindowState.Maximized
        Pembeli.panelUtama.Controls.Add(namaForm)
        namaForm.Show()
    End Sub

    Private Sub ProdukKeranjang_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        koneksi()
    End Sub

    Private Sub btnPlus_Click(sender As Object, e As EventArgs) Handles
btnPlus.Click
        btnMinus.Enabled = True
        Dim jml As Integer = JumlahProduk.Text + 1
        Dim kode As String = KodeTransaksi.Text

        CMD = New MySqlCommand("Select * From transaksi Where idTransaksi='" &
KodeTransaksi.Text & "'", CONN)
        RD = CMD.ExecuteReader
        RD.Read()
        Dim kodeProduk As String = RD.GetString(2)
        RD.Close()

        CMD = New MySqlCommand("Select * From produk Where kode='" & kodeProduk
& "'", CONN)
        RD = CMD.ExecuteReader
        RD.Read()
        Dim harga As Integer = RD.GetString(3)
        RD.Close()

        Dim total As Integer = jml * harga
        Dim ubah As String = "Update transaksi Set jumlah='" & jml & "',
total='" & total & "' Where idTransaksi='" & kode & "'"
        CMD = New MySqlCommand(ubah, CONN)
        CMD.ExecuteNonQuery()

        JumlahProduk.Text = jml
        Dim form = New Keranjang
        tampilkanPanel(form)
    End Sub
```

```vb
    Private Sub btnMinus_Click(sender As Object, e As EventArgs) Handles
btnMinus.Click
        If JumlahProduk.Text - 1 > 0 Then
            Dim jml As Integer = JumlahProduk.Text - 1
            Dim kode As String = KodeTransaksi.Text

            CMD = New MySqlCommand("Select * From transaksi Where
idTransaksi='" & KodeTransaksi.Text & "'", CONN)
            RD = CMD.ExecuteReader
            RD.Read()
            Dim kodeProduk As String = RD.GetString(2)
            RD.Close()

            CMD = New MySqlCommand("Select * From produk Where kode='" &
kodeProduk & "'", CONN)
            RD = CMD.ExecuteReader
            RD.Read()
            Dim harga As Integer = RD.GetString(3)
            RD.Close()

            Dim total As Integer = jml * harga
            Dim ubah As String = "Update transaksi Set jumlah='" & jml & "',
total='" & total & "' Where idTransaksi='" & kode & "'"
            CMD = New MySqlCommand(ubah, CONN)
            CMD.ExecuteNonQuery()

            JumlahProduk.Text = jml
            Dim form = New Keranjang
            tampilkanPanel(form)
            Return
        End If
        btnMinus.Enabled = False
    End Sub

    Private Sub btnHapus_Click(sender As Object, e As EventArgs) Handles
btnHapus.Click
        Dim hapus As String
        hapus = MessageBox.Show("Anda Yakin Hapus Produk?", "Konfirmasi",
MessageBoxButtons.YesNo, MessageBoxIcon.Question)

        If hapus = MsgBoxResult.Yes Then
            Dim kode As String = KodeTransaksi.Text
            'kode nama stok harga gambar
            Dim query As String = "Delete From transaksi Where idTransaksi='" &
kode & "'"
            CMD = New MySqlCommand(query, CONN)
            CMD.ExecuteNonQuery()
            MsgBox("Barang telah dihapus", MsgBoxStyle.Information,
"Pemberitahuan")
        Else
            Exit Sub
        End If

        Dim form = New Keranjang
        tampilkanPanel(form)
    End Sub
End Class
```

Form TampilanProduk

```vbnet
Imports MySql.Data.MySqlClient

Public Class TampilanProduk
    Private Sub btnTambah_Click(sender As Object, e As EventArgs) Handles
btnTambah.Click
        CMD = New MySqlCommand("Select * From produk Where kode='" &
KodeProduk.Text & "'", CONN)
        RD = CMD.ExecuteReader
        RD.Read()
        Dim harga As Integer = RD.GetString(3)
        Dim jumlah As Integer = 1
        Dim total As Integer = jumlah * harga
        RD.Close()
        Dim tambah = "Insert Into transaksi (idTransaksi, idPengguna, idProduk,
jumlah, total, status) Values (NULL,'" & UID & "', '" & KodeProduk.Text & "',
'" & jumlah & "', '" & total & "', 'dipesan')"

        CMD = New MySqlCommand(tambah, CONN)
        CMD.ExecuteNonQuery()
        MsgBox("Produk berhasil ditambahkan ke keranjang belanja",
MsgBoxStyle.Information, "Pemberitahuan")
    End Sub
End Class
```