

Aplikasi Laundry



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1. FormLogin

Deskripsi Umum

FormLogin adalah halaman pertama yang muncul ketika aplikasi Toko Laundry dijalankan. Fungsinya adalah untuk memverifikasi pengguna berdasarkan data username dan password yang tersimpan di tabel `users` pada database `db_laundry`. Jika login berhasil, user akan diarahkan ke `FormMainMenu`. Jika gagal, sistem akan menampilkan pesan kesalahan.

Input:

```
Imports System.Data.SqlClient
Imports System.Reflection.Emit
Imports System.Windows.Forms.VisualStyles.VisualStyleElement
Imports MySql.Data.MySqlClient

Public Class FormLogin
    Dim conn As MySqlConnection
    Dim cmd As MySqlCommand
    Dim rd As MySqlDataReader

    Sub koneksi()
        conn = New
        MySqlConnection("server=localhost;userid=root;password=;database=db_laundry")
        If conn.State = ConnectionState.Closed Then
            conn.Open()
        End If
    End Sub

    Private Sub FormLogin_Load(sender As Object, e As EventArgs) Handles
        MyBase.Load
            Label1.Text = "Username"
            Label2.Text = "Password"
            Button1.Text = "Login"
            TextBox2.UseSystemPasswordChar = True
        End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
        Button1.Click
            koneksi()
            Dim user As String = TextBox1.Text
            Dim pass As String = TextBox2.Text
```

```

        cmd = New MySqlCommand("SELECT * FROM users WHERE username='" & user & "'
AND password='" & pass & "'", conn)
        rd = cmd.ExecuteReader
        If rd.HasRows Then
            rd.Read()
            MsgBox("Login Berhasil", MsgBoxStyle.Information, "Sukses")

            FormMainMenu.Show()
            FormMainMenu.Label1.Text = "Login sebagai: " & rd("username") & " ["
& rd("level") & "]"
            Me.Hide()
        Else
            MsgBox("Login Gagal! Username atau Password salah",
MsgBoxStyle.Critical, "Gagal")
        End If
    End Sub
End Class

```

Output

FormLogin

The screenshot shows a Windows application window titled "FormLogin". Inside the window, there is a login form with two text boxes labeled "Username" and "Password". Below the text boxes is a "Login" button. The "Username" text box contains the text "admin" and the "Password" text box contains the text "admin123". Below the "Login" button, the text "Username : admin" and "pass : admin123" is displayed, indicating a successful login. The background of the window is light gray.

2. FormMainMenu

Definisi Halaman: FormMainMenu

Nama Form: FormMainMenu

Fungsi Utama:

Form ini berfungsi sebagai halaman utama atau dashboard dalam aplikasi Toko Laundry. Setelah pengguna berhasil login, halaman ini akan muncul sebagai pusat navigasi ke seluruh fitur utama aplikasi.

Input

```
Public Class FormMainMenu
    Private Sub FormMainMenu_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        ' Set form sebagai MDI Parent
        Me.IsMdiContainer = True
        Me.Text = "Toko Laundry - Menu Utama"
        Me.WindowState = FormWindowState.Maximized

        ' Ubah label info login
        Label1.Text = "Selamat datang, [user]"
        Label1.AutoSize = True
        Label1.Font = New Font("Segoe UI", 10, FontStyle.Bold)
        Label1.ForeColor = Color.DarkBlue
        Label1.Location = New Point(20, 30)

        ' Inisialisasi jam
        Timer1.Interval = 1000
        Timer1.Start()

        ' Atur MenuStrip
        MenuStrip1.Items.Clear()

        ' MASTER DATA
        Dim menuMaster As New ToolStripMenuItem("Master Data")
        Dim menuPelanggan As New ToolStripMenuItem("Data Pelanggan")
        Dim menuLayanan As New ToolStripMenuItem("Data Layanan")

        AddHandler menuPelanggan.Click, AddressOf bukaFormPelanggan
        AddHandler menuLayanan.Click, AddressOf bukaFormLayanan

        menuMaster.DropDownItems.Add(menuPelanggan)
```

```

        menuMaster.DropDownItems.Add(menuLayanan)

        ' TRANSAKSI
        Dim menuTransaksi As New ToolStripMenuItem("Transaksi")
        Dim menuInputTransaksi As New ToolStripMenuItem("Transaksi Laundry")
        AddHandler menuInputTransaksi.Click, AddressOf bukaFormTransaksi
        menuTransaksi.DropDownItems.Add(menuInputTransaksi)

        ' LAPORAN
        Dim menuLaporan As New ToolStripMenuItem("Laporan")
        Dim menuLaporanTransaksi As New ToolStripMenuItem("Laporan Transaksi")
        AddHandler menuLaporanTransaksi.Click, AddressOf bukaFormLaporan
        menuLaporan.DropDownItems.Add(menuLaporanTransaksi)

        ' LOGOUT
        Dim menuLogout As New ToolStripMenuItem("Logout")
        AddHandler menuLogout.Click, AddressOf logoutAplikasi

        ' Tambahkan semua menu
        MenuStrip1.Items.Add(menuMaster)
        MenuStrip1.Items.Add(menuTransaksi)
        MenuStrip1.Items.Add(menuLaporan)
        MenuStrip1.Items.Add(menuLogout)
    End Sub

    ' Tampilkan jam
    Private Sub Timer1_Tick(sender As Object, e As EventArgs) Handles Timer1.Tick
        Me.Text = "Toko Laundry - " & TimeOfDay.ToString("HH:mm:ss")
    End Sub

    ' Aksi buka form pelanggan
    Private Sub bukaFormPelanggan()
        FormPelanggan.MdiParent = Me
        FormPelanggan.Show()
        FormPelanggan.Focus()
    End Sub

    ' Aksi buka form layanan
    Private Sub bukaFormLayanan()
        FormLayanan.MdiParent = Me
        FormLayanan.Show()
        FormLayanan.Focus()
    End Sub

    ' Aksi buka form transaksi

```

```

Private Sub bukaFormTransaksi()
    FormTransaksi.MdiParent = Me
    FormTransaksi.Show()
    FormTransaksi.Focus()
End Sub

' Aksi buka form laporan
Private Sub bukaFormLaporan()
    FormLaporan.MdiParent = Me
    FormLaporan.Show()
    FormLaporan.Focus()
End Sub

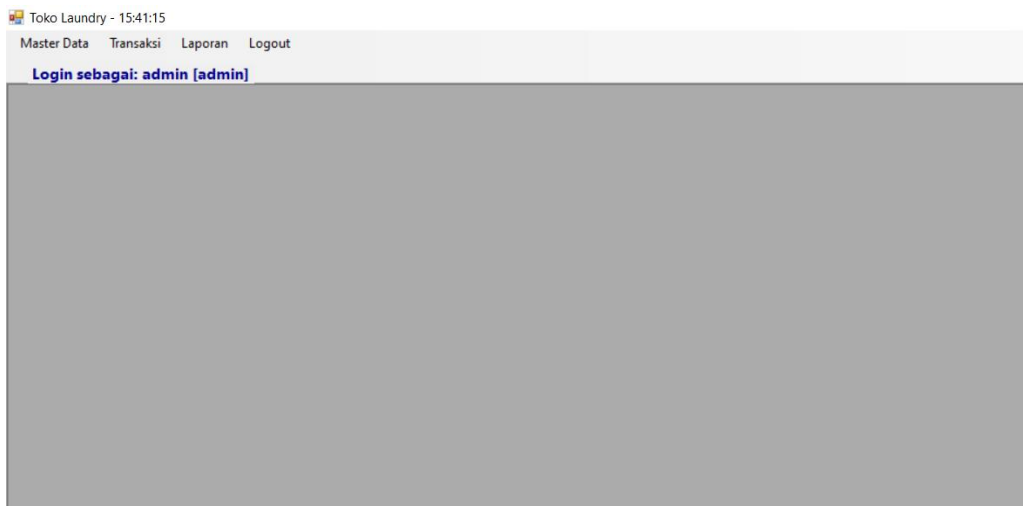
' Aksi logout
Private Sub logoutAplikasi()
    If MsgBox("Yakin ingin logout?", MsgBoxStyle.YesNo, "Konfirmasi") =
MsgBoxResult.Yes Then
        Me.Hide()
        FormLogin.Show()
    End If
End Sub

Private Sub Label1_Click(sender As Object, e As EventArgs) Handles
Label1.Click

End Sub
End Class

```

Output



3. Data Layanan

Definisi Halaman: FormLayanan

Nama Form: FormLayanan

Fungsi Utama:

Halaman ini digunakan untuk mengelola master data layanan laundry yang tersedia di toko.

Data layanan ini akan digunakan saat melakukan input transaksi.

```
Imports System.Data.SqlClient
Imports System.Reflection.Emit
Imports System.Windows.Forms.VisualStyles.VisualStyleElement
Imports MySql.Data.MySqlClient
Public Class FormLayanan
    Dim conn As MySqlConnection
    Dim cmd As MySqlCommand
    Dim da As MySqlDataAdapter
    Dim ds As DataSet
    Dim layananArray(100) As String ' Materi: Array

    Sub koneksi()
        conn = New
MySqlConnection("server=localhost;userid=root;password=;database=db_laundry")
        If conn.State = ConnectionState.Closed Then
            conn.Open()
        End If
    End Sub

    Sub tampilLayanan()
        koneksi()
        da = New MySqlDataAdapter("SELECT * FROM layanan", conn)
        ds = New DataSet
        da.Fill(ds, "layanan")
        DataGridView1.DataSource = ds.Tables("layanan")
    End Sub

    Sub clearForm()
        TextBox1.Text = ""
        TextBox2.Text = ""
    End Sub

    Private Sub FormLayanan_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        Label1.Text = "Nama Layanan"
        Label2.Text = "Harga per Kg"
```

```

        Button1.Text = "Simpan"
        Button2.Text = "Hapus"

        tampilLayanan()
        isiArrayLayanan()
    End Sub

    ' Materi: Looping + Array
    Sub isiArrayLayanan()
        koneksi()
        Dim cmdArray As New MySqlCommand("SELECT nama_layanan FROM layanan",
conn)
        Dim rd As MySqlDataReader = cmdArray.ExecuteReader()
        Dim i As Integer = 0

        While rd.Read()
            layananArray(i) = rd("nama_layanan").ToString()
            i += 1
        End While
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
        If TextBox1.Text = "" Or TextBox2.Text = "" Then
            MsgBox("Data tidak boleh kosong!", MsgBoxStyle.Exclamation)
            Exit Sub
        End If
        koneksi()
        cmd = New MySqlCommand("INSERT INTO layanan (nama_layanan, harga_per_kg)
VALUES ('" & TextBox1.Text & "', '" & TextBox2.Text & "')", conn)
        cmd.ExecuteNonQuery()
        MsgBox("Layanan berhasil ditambahkan!", MsgBoxStyle.Information)

        tampilLayanan()
        clearForm()
        isiArrayLayanan()
    End Sub

    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles
Button2.Click
        If DataGridView1.CurrentRow Is Nothing Then
            MsgBox("Pilih data yang ingin dihapus.", MsgBoxStyle.Exclamation)
            Exit Sub
        End If

        Dim id As String = DataGridView1.CurrentRow.Cells(0).Value.ToString()

```



```

    koneksi()
    cmd = New MySqlCommand("DELETE FROM layanan WHERE id_layanan='" & id &
    "'", conn)
    cmd.ExecuteNonQuery()

    MsgBox("Layanan berhasil dihapus.", MsgBoxStyle.Information)
    tampilLayanan()
    clearForm()
    isiArrayLayanan()
End Sub

Private Sub Label1_Click(sender As Object, e As EventArgs) Handles
Label1.Click

    End Sub
End Class

```

Output

Toko Laundry - 15:45:14

Master Data Transaksi Laporan Logout

Login sebagai: admin [admin]

FormLayanan

Nama Layanan

Harga per Kg

Simoan

Hapus

	id_layanan	nama_layanan	harga_per_kg
▶	1	cuci gosok	6000.00
	2	cuci basah	4000.00
	3	gosok saja	3000.00
	4

4. Form Pelanggan

Definisi Halaman: FormPelanggan

Nama Form: FormPelanggan

Fungsi Utama:

FormPelanggan digunakan untuk mengelola data pelanggan toko laundry. Data ini penting untuk setiap transaksi, karena setiap transaksi harus terhubung dengan pelanggan yang bersangkutan.

Input

```
Imports System.Data.SqlClient
Imports MySql.Data.MySqlClient
Public Class FormPelanggan
    Dim conn As MySqlConnection
    Dim cmd As MySqlCommand
    Dim da As MySqlDataAdapter
    Dim ds As DataSet
    Dim id_pelanggan As String

    ' Prosedur koneksi
    Sub koneksi()
        conn = New
        MySqlConnection("server=localhost;userid=root;password=;database=db_laundry")
        If conn.State = ConnectionState.Closed Then
            conn.Open()
        End If
    End Sub

    ' Prosedur tampil data ke grid
    Sub tampilData()
        koneksi()
        da = New MySqlDataAdapter("SELECT * FROM pelanggan", conn)
        ds = New DataSet
        da.Fill(ds, "pelanggan")
        DataGridView1.DataSource = ds.Tables("pelanggan")
    End Sub

    ' Prosedur clear form
    Sub clearForm()
        TextBox1.Text = ""
    End Sub
End Class
```

```

        TextBox2.Text = ""
        TextBox3.Text = ""
        id_pelanggan = ""
    End Sub

    Private Sub FormPelanggan_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        ' Label dan tombol
        Label1.Text = "Nama Pelanggan"
        Label2.Text = "Alamat"
        Label3.Text = "No HP"
        Button1.Text = "Simpan"
        Button2.Text = "Update"
        Button3.Text = "Hapus"

        tampilData()
    End Sub

    ' Tombol Simpan
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
        If TextBox1.Text = "" Or TextBox2.Text = "" Or TextBox3.Text = "" Then
            MsgBox("Semua data harus diisi!", MsgBoxStyle.Critical)
            Exit Sub
        End If

        koneksi()
        cmd = New MySqlCommand("INSERT INTO pelanggan (nama_pelanggan, alamat,
no_hp) VALUES ('" & TextBox1.Text & "', '" & TextBox2.Text & "', '" & TextBox3.Text
& "')", conn)
        cmd.ExecuteNonQuery()
        MsgBox("Data berhasil disimpan.", MsgBoxStyle.Information)

        tampilData()
        clearForm()
    End Sub

    ' Klik baris di DataGridView
    Private Sub DataGridView1_CellClick(sender As Object, e As
DataGridViewCellEventArgs) Handles DataGridView1.CellClick
        Try
            Dim row As Integer = e.RowIndex
            id_pelanggan = DataGridView1.Rows(row).Cells(0).Value.ToString()
            TextBox1.Text = DataGridView1.Rows(row).Cells(1).Value.ToString()
            TextBox2.Text = DataGridView1.Rows(row).Cells(2).Value.ToString()

```

```

        TextBox3.Text = DataGridView1.Rows(row).Cells(3).Value.ToString()
    Catch ex As Exception
    End Try
End Sub

' Tombol Update
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles
Button2.Click
    If id_pelanggan = "" Then
        MsgBox("Pilih data yang akan diupdate!", MsgBoxStyle.Exclamation)
        Exit Sub
    End If

    koneksi()
    cmd = New MySqlCommand("UPDATE pelanggan SET nama_pelanggan='" &
TextBox1.Text & "', alamat='" & TextBox2.Text & "', no_hp='" & TextBox3.Text & "'
WHERE id_pelanggan='" & id_pelanggan & "'", conn)
    cmd.ExecuteNonQuery()
    MsgBox("Data berhasil diupdate.", MsgBoxStyle.Information)

    tampilData()
    clearForm()
End Sub

' Tombol Hapus
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles
Button3.Click
    If id_pelanggan = "" Then
        MsgBox("Pilih data yang akan dihapus!", MsgBoxStyle.Exclamation)
        Exit Sub
    End If

    If MsgBox("Yakin ingin menghapus data ini?", MsgBoxStyle.YesNo) =
MsgBoxResult.Yes Then
        koneksi()
        cmd = New MySqlCommand("DELETE FROM pelanggan WHERE id_pelanggan='" &
id_pelanggan & "'", conn)
        cmd.ExecuteNonQuery()
        MsgBox("Data berhasil dihapus.", MsgBoxStyle.Information)

        tampilData()
        clearForm()
    End If
End Sub
End Class

```

Output

Toko Laundry - 15:48:54

Master Data Transaksi Laporan Logout

Login sebagai: admin [admin]

FormPelanggan

Nama Pelanggan

Alamat

No HP

	id_pelanggan	nama_pelanggan
▶	1	maya
	2	limah
	3	ruanah
	4	...

5. Form Transaksi

Definisi Halaman: FormTransaksi

Nama Form: FormTransaksi

Fungsi Utama:

Form ini digunakan untuk menampilkan data transaksi laundry dalam bentuk tabel. Di halaman ini, pengguna dapat melihat transaksi yang sudah dilakukan oleh pelanggan, lengkap dengan informasi tanggal, total harga, dan status pengerjaan.

Input

```
Imports MySql.Data.MySqlClient

Public Class FormTransaksi
    ' Deklarasi koneksi & perintah
    Dim conn As MySqlConnection
    Dim cmd As MySqlCommand
    Dim rd As MySqlDataReader

    ' Koneksi ke database
    Sub Koneksi()
        conn = New
        MySqlConnection("server=localhost;userid=root;password=;database=db_laundry")
        If conn.State = ConnectionState.Closed Then
            conn.Open()
        End If
    End Sub

    ' Prosedur tampilkan data manual (atau nanti dari DB)
    Sub TampilTransaksi()
        ' Atur ListView
        ListView1.Items.Clear()
        ListView1.Columns.Clear()
        ListView1.View = View.Details
        ListView1.FullRowSelect = True
        ListView1.GridLines = True

        ' Tambahkan kolom
        ListView1.Columns.Add("ID", 50)
        ListView1.Columns.Add("Nama", 100)
```

```

        ListView1.Columns.Add("Tanggal", 100)
        ListView1.Columns.Add("Total", 100)
        ListView1.Columns.Add("Status", 100)

        ' Tambahkan data manual
        Dim item1 As New ListViewItem("1")
        item1.SubItems.Add("Maya")
        item1.SubItems.Add("09/07/2025")
        item1.SubItems.Add("15000")
        item1.SubItems.Add("Proses")
        ListView1.Items.Add(item1)

        Dim item2 As New ListViewItem("2")
        item2.SubItems.Add("Limah")
        item2.SubItems.Add("08/07/2025")
        item2.SubItems.Add("20000")
        item2.SubItems.Add("Proses")
        ListView1.Items.Add(item2)

        Dim item3 As New ListViewItem("3")
        item3.SubItems.Add("Ruanah")
        item3.SubItems.Add("05/07/2025")
        item3.SubItems.Add("18000")
        item3.SubItems.Add("Selesai")
        ListView1.Items.Add(item3)

        Dim item4 As New ListViewItem("4")
        item4.SubItems.Add("Intan")
        item4.SubItems.Add("01/07/2025")
        item4.SubItems.Add("34000")
        item4.SubItems.Add("Selesai")
        ListView1.Items.Add(item4)
    End Sub

    ' Saat form dimuat
    Private Sub FormTransaksi_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
        Label11.Text = "Laporan Transaksi Laundry"
        TampilTransaksi()
    End Sub

    ' Tombol Lihat Detail
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
        If ListView1.SelectedItems.Count = 0 Then

```

```

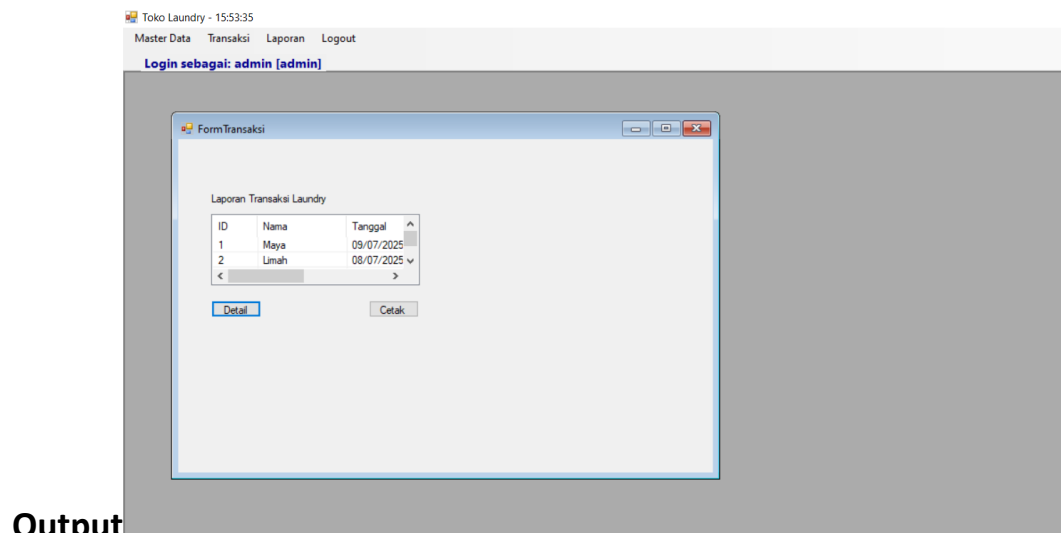
        MsgBox("Pilih transaksi dulu!", MsgBoxStyle.Exclamation)
    Exit Sub
End If

Dim selected As ListViewItem = ListView1.SelectedItems(0)
Dim detail As String = "ID Transaksi: " & selected.SubItems(0).Text &
vbCrLf &
        "Pelanggan: " & selected.SubItems(1).Text & vbCrLf &
        "Tanggal: " & selected.SubItems(2).Text & vbCrLf &
        "Total: " & selected.SubItems(3).Text & vbCrLf &
        "Status: " & selected.SubItems(4).Text
    MsgBox(detail, MsgBoxStyle.Information, "Detail Transaksi")
End Sub

' Tombol Cetak
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles
Button2.Click
    If ListView1.SelectedItems.Count = 0 Then
        MsgBox("Pilih data dulu untuk dicetak!", MsgBoxStyle.Exclamation)
        Exit Sub
    End If

    Dim selected As ListViewItem = ListView1.SelectedItems(0)
    MsgBox("Mencetak transaksi ID: " & selected.SubItems(0).Text,
MsgBoxStyle.Information)
End Sub
End Class

```



Output

6. Form Laporan

Definisi Halaman: FormTransaksi

Nama Form: FormTransaksi

Fungsi Utama:

Form ini digunakan untuk menampilkan data transaksi laundry dalam bentuk tabel. Di halaman ini, pengguna dapat melihat transaksi yang sudah dilakukan oleh pelanggan, lengkap dengan informasi tanggal, total harga, dan status pengerjaan.

```
Imports MySql.Data.MySqlClient

Public Class FormLaporan
    Dim conn As MySqlConnection
    Dim cmd As MySqlCommand
    Dim rd As MySqlDataReader

    ' Koneksi ke database
    Sub Koneksi()
        conn = New
MySqlConnection("server=localhost;userid=root;password=;database=db_laundry")
        If conn.State = ConnectionState.Closed Then
            conn.Open()
        End If
    End Sub

    ' Tampilkan data laporan
    Sub TampilLaporan()
        Try
            Koneksi()
            ListView1.Items.Clear()

            Dim tgl As String = DateTimePicker1.Value.ToString("yyyy-MM-dd")
            Dim query As String = "
                SELECT transaksi.id_transaksi, pelanggan.nama_pelanggan,
transaksi.tanggal, transaksi.total, transaksi.status
                FROM transaksi
                JOIN pelanggan ON transaksi.id_pelanggan = pelanggan.id_pelanggan
                WHERE transaksi.tanggal = @tgl
                ORDER BY transaksi.id_transaksi DESC
            "

            cmd = New MySqlCommand(query, conn)
```

```

cmd.Parameters.AddWithValue("@tgl", tgl)
rd = cmd.ExecuteReader()

If rd.HasRows Then
    While rd.Read()
        Dim item As New ListViewItem(rd("id_transaksi").ToString())
        item.SubItems.Add(rd("nama_pelanggan").ToString())
        item.SubItems.Add(Convert.ToDateTime(rd("tanggal")).ToString(
"dd/MM/yyyy"))

        item.SubItems.Add(FormatNumber(rd("total"), 0))
        item.SubItems.Add(rd("status").ToString())
        ListView1.Items.Add(item)
    End While
Else
    ' Atur ListView
    ListView1.Items.Clear()
    ListView1.Columns.Clear()
    ListView1.View = View.Details
    ListView1.FullRowSelect = True
    ListView1.GridLines = True

    ' Tambahkan kolom
    ListView1.Columns.Add("ID", 50)
    ListView1.Columns.Add("Nama", 100)
    ListView1.Columns.Add("Tanggal", 100)
    ListView1.Columns.Add("Total", 100)
    ListView1.Columns.Add("Status", 100)

    ' Tambahkan data manual
    Dim item1 As New ListViewItem("1")
    item1.SubItems.Add("Maya")
    item1.SubItems.Add("09/07/2025")
    item1.SubItems.Add("15000")
    item1.SubItems.Add("Proses")
    ListView1.Items.Add(item1)

    Dim item2 As New ListViewItem("2")
    item2.SubItems.Add("Limah")
    item2.SubItems.Add("08/07/2025")
    item2.SubItems.Add("20000")
    item2.SubItems.Add("Proses")
    ListView1.Items.Add(item2)

    Dim item3 As New ListViewItem("3")
    item3.SubItems.Add("Ruanah")

```

```

        item3.SubItems.Add("05/07/2025")
        item3.SubItems.Add("18000")
        item3.SubItems.Add("Selesai")
        ListView1.Items.Add(item3)

        Dim item4 As New ListViewItem("4")
        item4.SubItems.Add("Intan")
        item4.SubItems.Add("01/07/2025")
        item4.SubItems.Add("34000")
        item4.SubItems.Add("Selesai")
        ListView1.Items.Add(item4)
    End If

    rd.Close()
    conn.Close()

    Catch ex As Exception
        MsgBox("Gagal menampilkan laporan: " & ex.Message,
MsgBoxStyle.Critical)
    End Try
End Sub

' Saat Form dibuka
Private Sub FormLaporan_Load(sender As Object, e As EventArgs) Handles
MyBase.Load
    Label1.Text = "Laporan"

    With ListView1
        .Items.Clear()
        .Columns.Clear()
        .View = View.Details
        .FullRowSelect = True
        .GridLines = True
        .Columns.Add("ID", 50)
        .Columns.Add("Nama", 120)
        .Columns.Add("Tanggal", 100)
        .Columns.Add("Total", 100)
        .Columns.Add("Status", 100)
    End With

    Tampillaporan()
End Sub

' Saat tanggal dipilih

```

```
Private Sub DateTimePicker1_ValueChanged(sender As Object, e As EventArgs)
Handles DateTimePicker1.ValueChanged
    TampilLaporan()
End Sub
End Class
```

Output

