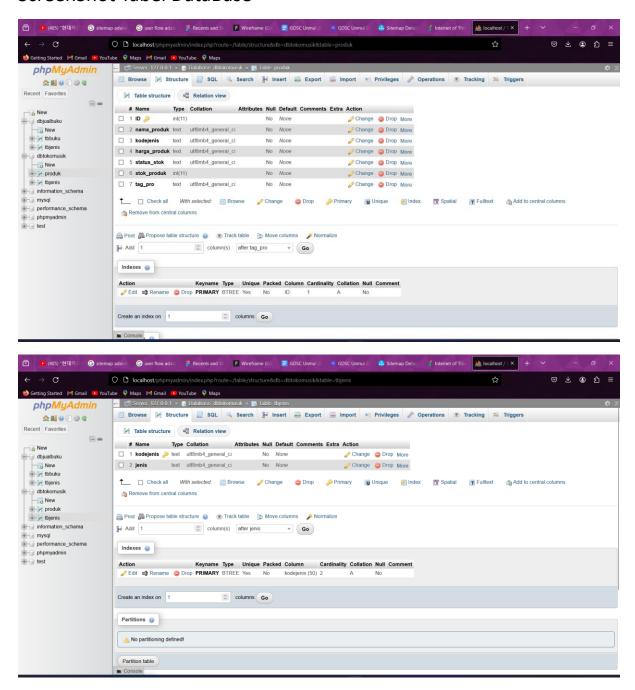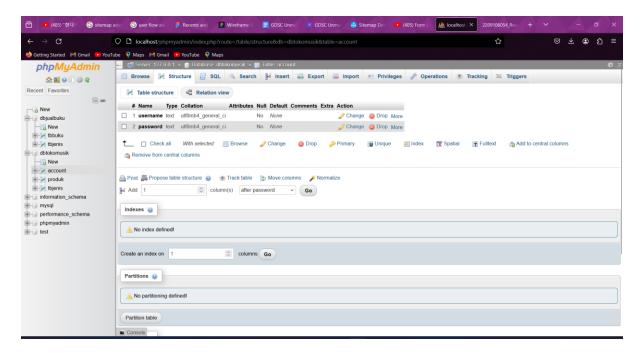Nama : Renaldi Pratama

Nim : 2209106054

Posttest 6

ScreenShot Tabel DataBase

Source code

Form1.vb

```vb
Imports MySql.Data.MySqlClient

Public Class Form1
    Sub kosong()
        TextBox1.Clear()
        TextBox2.Clear()
        TextBox3.Clear()
        TextBox4.Clear()
        TextBox1.Focus()
    End Sub

    Sub isi()
        TextBox1.Clear()
        TextBox1.Focus()
    End Sub

    Sub TampilData()
        DataGridView1.Rows.Clear()
        CMD = New MySqlCommand("select * from produk", CONN)
        RD = CMD.ExecuteReader()
        While RD.Read()
            Dim row As New DataGridViewRow()
            row.CreateCells(DataGridView1)
            row.Cells(0).Value = RD("ID")
            row.Cells(1).Value = RD("nama_produk")
            row.Cells(2).Value = RD("kodejenis")
            row.Cells(3).Value = RD("harga_produk")
            row.Cells(4).Value = RD("status_stok")
            row.Cells(5).Value = RD("stok_produk")
            row.Cells(6).Value = RD("tag_pro")
            DataGridView1.Rows.Add(row)
        End While
        RD.Close()
    End Sub
```

```vb
    Sub tampilJenis()
        CMD = New MySqlCommand("select jenis from tbjenis", CONN)
        RD = CMD.ExecuteReader
        Do While RD.Read
            cbJenis.Items.Add(RD.Item(0))
        Loop
        RD.Close()
    End Sub

    Sub aturGrid()
        DataGridView1.Columns(0).Width = 60
        DataGridView1.Columns(1).Width = 200
        DataGridView1.Columns(0).HeaderText = "ID"
        DataGridView1.Columns(1).HeaderText = "Nama"
        DataGridView1.Columns(2).HeaderText = "Jenis"
        DataGridView1.Columns(3).HeaderText = "Harga"
        DataGridView1.Columns(4).HeaderText = "Status Stok"
        DataGridView1.Columns(5).HeaderText = "Stok"
        DataGridView1.Columns(6).HeaderText = "Tag"
    End Sub

    Private Sub Form3_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        koneksi()
        TampilData()
        kosong()
        'aturGrid()
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        If TextBox1.Text = Nothing And TextBox4.Text = Nothing Then
            MsgBox("Data belum lengkap")
            TextBox1.Focus()
        Else
            Dim ID As Integer = Integer.Parse(TextBox1.Text)
            Dim Stok As Integer = Integer.Parse(TextBox4.Text)
            Dim StatusStok As String = ""
            For Each control As Control In GroupBox2.Controls
                If TypeOf control Is RadioButton AndAlso DirectCast(control,
                RadioButton).Checked Then
                    StatusStok &= control.Text & vbCrLf
                End If
            Next
            Dim tag As String = ""
            For Each control As Control In GroupBox1.Controls
                If TypeOf control Is CheckBox AndAlso DirectCast(control,
                CheckBox).Checked Then
                    tag &= control.Text & vbCrLf
                End If
            Next
            CMD = New MySqlCommand("Select * from produk where ID = '" & ID & "'",
CONN)
            RD = CMD.ExecuteReader
            RD.Read()

            If Not RD.HasRows Then
                RD.Close()
                CMD = New MySqlCommand("insert into produk values ('" & ID & "','" &
TextBox2.Text & "','" & cbJenis.Text & "','" & TextBox3.Text & "','" & StatusStok &
"','" & Stok & "','" & tag & "')", CONN)
                CMD.ExecuteNonQuery()
                TampilData()
                kosong()
```

```vbnet
                MsgBox("Simpan Sukses")
                TextBox1.Focus()
            Else
                RD.Close()
                MsgBox("Data Tersebut sudah ada")
            End If
        End If
    End Sub

    Private Sub txtJenis_KeyPress(sender As Object, e As KeyPressEventArgs) Handles
TextBox2.KeyPress
        TextBox2.MaxLength = 50
        If e.KeyChar = Chr(13) Then
            TextBox2.Text = UCase(TextBox2.Text)
        End If
    End Sub

    Private Sub DataGridView1_CellClick(sender As Object, e As
DataGridViewCellEventArgs) Handles DataGridView1.CellClick
        If DataGridView1.SelectedRows.Count > 0 Then
            Dim row As DataGridViewRow = DataGridView1.SelectedRows(0)
            If row.Index < DataGridView1.RowCount And row.Index >= 0 Then
                TextBox1.Text = row.Cells(0).Value
                TextBox2.Text = row.Cells(1).Value
                cbJenis.Text = row.Cells(2).Value
                TextBox3.Text = row.Cells(3).Value
                TextBox4.Text = row.Cells(5).Value
            End If
        End If
    End Sub

    Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
        If TextBox2.Text = Nothing Then
            MsgBox("data belum diisi")
            TextBox1.Focus()
        Else
            Dim StatusStok As String = ""
            For Each control As Control In GroupBox2.Controls
                If TypeOf control Is RadioButton AndAlso DirectCast(control,
                RadioButton).Checked Then
                    StatusStok &= control.Text & vbCrLf
                End If
            Next
            Dim tag As String = ""
            For Each control As Control In GroupBox1.Controls
                If TypeOf control Is CheckBox AndAlso DirectCast(control,
                CheckBox).Checked Then
                    tag &= control.Text & vbCrLf
                End If
            Next
            Dim ubah As String = "UPDATE produk SET nama_produk = @nama_produk,
kodejenis = @tipe_produk, harga_produk = @harga_produk, status_stok = @status_stok,
stok_produk = @stok_produk, tag_pro = @tag_pro WHERE ID = @ID"
            Using CMD As New MySqlCommand(ubah, CONN)
                CMD.Parameters.AddWithValue("@nama_produk", TextBox2.Text)
                CMD.Parameters.AddWithValue("@tipe_produk", cbJenis.Text)
                CMD.Parameters.AddWithValue("@harga_produk", TextBox3.Text)
                CMD.Parameters.AddWithValue("@status_stok", StatusStok)
                CMD.Parameters.AddWithValue("@stok_produk", TextBox4.Text)
                CMD.Parameters.AddWithValue("@tag_pro", tag)
                CMD.Parameters.AddWithValue("@ID", TextBox1.Text)
```

```vbnet
                CMD.ExecuteNonQuery()
            End Using
            MsgBox("Data berhasil diubah")
            TampilData()
            kosong()
        End If
    End Sub

    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
        If TextBox2.Text = Nothing Then
            MsgBox("ID belum diisi")
            TextBox1.Focus()
        Else
            Dim ubah As String = "delete from produk where ID = '" &
            TextBox1.Text & "'"
            CMD = New MySqlCommand(ubah, CONN)
            CMD.ExecuteNonQuery()
            MsgBox("Data berhasil dihapus")
            TampilData()
            kosong()
        End If
    End Sub

    Private Sub TextBox1_KeyPress(sender As Object, e As KeyPressEventArgs) Handles
TextBox1.KeyPress
        If e.KeyChar = Chr(13) Then
            CMD = New MySqlCommand("select * from produk  where ID = '" &
            TextBox1.Text & "'", CONN)
            RD = CMD.ExecuteReader()
            RD.Read()
            If RD.HasRows Then
                TextBox2.Text = RD("produk")
                TextBox2.Focus()
            Else
                isi()
                TextBox2.Focus()
            End If
            RD.Close()
        End If
    End Sub

    Private Sub TextBox5_TextChanged(sender As Object, e As EventArgs) Handles
TextBox5.TextChanged
        If Not String.IsNullOrEmpty(TextBox5.Text) Then
            Try
                Using CMD As New MySqlCommand("SELECT * FROM produk WHERE nama_produk
LIKE @namapro", CONN)
                    CMD.Parameters.AddWithValue("@namapro", "%" & TextBox5.Text & "%")
                    Using RD = CMD.ExecuteReader()
                        DataGridView1.Rows.Clear()
                        While RD.Read()
                            Dim row As New DataGridViewRow()
                            row.CreateCells(DataGridView1)
                            row.Cells(0).Value = RD("ID")
                            row.Cells(1).Value = RD("nama_produk")
                            row.Cells(2).Value = RD("kodejenis")
                            row.Cells(3).Value = RD("harga_produk")
                            row.Cells(4).Value = RD("status_stok")
                            row.Cells(5).Value = RD("stok_produk")
                            row.Cells(6).Value = RD("tag_pro")
                            DataGridView1.Rows.Add(row)
                        End While
```

```vb
                End Using
            End Using
        Catch ex As Exception
            MsgBox("Error: " & ex.Message)
        End Try
    Else
        TampilData()
    End If
    End Sub


End Class
```

Form2.vb

```vb
Imports MySql.Data.MySqlClient
Public Class Form2
    Sub Kosong()
        TextBox2.Clear()
        TextBox1.Clear()
        TextBox2.Focus()
    End Sub

    Sub isi()
        TextBox2.Clear()
        TextBox2.Focus()
    End Sub

    Sub tampilJenis()
        DataGridView1.Rows.Clear()
        If DataGridView1.Columns.Count = 0 Then
            DataGridView1.Columns.Add("kodeJenisColumn", "Kode Jenis")
            DataGridView1.Columns.Add("jenisColumn", "Jenis")
        End If
        CMD = New MySqlCommand("select * from tbjenis", CONN)
        RD = CMD.ExecuteReader()
        While RD.Read()
            Dim row As New DataGridViewRow()
            row.CreateCells(DataGridView1)
            row.Cells(0).Value = RD("kodeJenis")
            row.Cells(1).Value = RD("jenis")
            DataGridView1.Rows.Add(row)
        End While
        RD.Close()
    End Sub

    Sub aturGrid()
        DataGridView1.Columns(0).Width = 60
        DataGridView1.Columns(1).Width = 200
        DataGridView1.Columns(0).HeaderText = "Kode Jenis"
        DataGridView1.Columns(1).HeaderText = "Nama Jenis"
    End Sub

    Private Sub Form3_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        koneksi()
        tampilJenis()
        Kosong()
        'aturGrid()
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
```

```vbnet
        If TextBox2.Text = Nothing And TextBox1.Text = Nothing Then
            MsgBox("Data Belum Lengkap")
            TextBox1.Focus()
        Else
            CMD = New MySqlCommand("Select * from tbjenis where kodeJenis ='" &
TextBox1.Text & "'", CONN)
            RD = CMD.ExecuteReader
            RD.Read()
            If Not RD.HasRows Then
                RD.Close()
                CMD = New MySqlCommand("insert into tbjenis values('" & TextBox1.Text
& "', '" & TextBox2.Text & "')", CONN)
                CMD.ExecuteNonQuery()
                tampilJenis()
                Kosong()
                MsgBox("Simpan Data Sukses!")
                TextBox1.Focus()
            Else
                RD.Close()
                MsgBox("Data Tersebut Sudah Ada")
            End If
        End If
    End Sub

    Private Sub TextBox2_KeyPress(sender As Object, e As KeyPressEventArgs) Handles
TextBox2.KeyPress
        TextBox2.MaxLength = 50
        If e.KeyChar = Chr(13) Then
            TextBox2.Text = UCase(TextBox2.Text)
        End If
    End Sub

    Private Sub DataGridView1_CellClick(sender As Object, e As
DataGridViewCellEventArgs) Handles DataGridView1.CellClick
        If DataGridView1.SelectedRows.Count > 0 Then
            Dim row As DataGridViewRow = DataGridView1.SelectedRows(0)
            If row.Index < DataGridView1.RowCount And row.Index >= 0 Then
                TextBox1.Text = row.Cells(0).Value
                TextBox2.Text = row.Cells(1).Value
            End If
        End If
    End Sub

    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
        If TextBox2.Text = Nothing Then
            MsgBox("Kode Jenis belum diisi")
            TextBox1.Focus()
        Else
            Dim ubah As String = "update tbjenis set jenis = '" &
            TextBox2.Text & "' where kodeJenis = '" & TextBox1.Text & "'"
            CMD = New MySqlCommand(ubah, CONN)
            CMD.ExecuteNonQuery()
            MsgBox("Data berhasil diubah")
            tampilJenis()
            Kosong()
        End If
    End Sub

    Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
        If TextBox2.Text = Nothing Then
            MsgBox("Kode Jenis belum diisi")
            TextBox1.Focus()
```

```vb
        Else
            Dim ubah As String = "delete from tbjenis where kodeJenis = '" &
            TextBox1.Text & "'"
            CMD = New MySqlCommand(ubah, CONN)
            CMD.ExecuteNonQuery()
            MsgBox("Data berhasil dihapus")
            tampilJenis()
            Kosong()
        End If
    End Sub

    Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
        Kosong()
        tampilJenis()
    End Sub

    Private Sub TextBox1_KeyPress(sender As Object, e As KeyPressEventArgs) Handles
TextBox1.KeyPress
        If e.KeyChar = Chr(13) Then
            CMD = New MySqlCommand("select * from tbjenis  where kodeJenis = '" &
            TextBox1.Text & "'", CONN)
            RD = CMD.ExecuteReader()
            RD.Read()
            If RD.HasRows Then
                TextBox2.Text = RD("jenis")
                TextBox2.Focus()
            Else
                isi()
                TextBox2.Focus()
            End If
            RD.Close()
        End If
    End Sub

    Private Sub TextBox3_TextChanged(sender As Object, e As EventArgs) Handles
TextBox3.TextChanged
        If TextBox3.Text <> Nothing Then
            CMD = New MySqlCommand("select * from tbjenis where kodeJenis like '%" &
TextBox3.Text & "%'", CONN)
            RD = CMD.ExecuteReader()
            If RD.HasRows Then
                DataGridView1.Rows.Clear()
                While RD.Read()
                    Dim row As New DataGridViewRow()
                    row.CreateCells(DataGridView1)
                    row.Cells(0).Value = RD("kodeJenis")
                    row.Cells(1).Value = RD("jenis")
                    DataGridView1.Rows.Add(row)
                End While
            Else
                MsgBox("Data tidak ditemukan")
            End If
            RD.Close()
        Else
            tampilJenis()
        End If
    End Sub
End Class
```

Form3.vb

```vb
Public Class FMenu
    Private Sub KeluarToolStripMenuItem_Click(sender As Object, e As EventArgs)
Handles KeluarToolStripMenuItem.Click
        End
    End Sub
    Private Sub DataProdukToolStripMenuItem_Click(sender As Object, e As EventArgs)
Handles DataProdukToolStripMenuItem.Click
        Form1.Show()
    End Sub
    Private Sub DataJenisProdukToolStripMenuItem_Click(sender As Object, e As
EventArgs) Handles DataJenisProdukToolStripMenuItem.Click
        Form2.Show()
    End Sub
End Class
```

Form4.vb

```vb
Imports MySql.Data.MySqlClient
Public Class Form4
    Dim connectionString As String =
"server=localhost;userid=root;password=;database=dbtokomusik"

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Dim username As String = TextBox1.Text
        Dim password As String = TextBox2.Text

        If ValidateLogin(username, password) Then
            MessageBox.Show("Login berhasil!")
            Dim Form3 As New FMenu
            Form3.Show()
            Me.Hide()
        Else
            MessageBox.Show("Username atau password salah!")
        End If
    End Sub

    Private Function ValidateLogin(username As String, password As String) As Boolean
        Using connection As New MySqlConnection(connectionString)
            connection.Open()
            Dim query As String = "SELECT COUNT(*) FROM account WHERE username =
@username AND password = @password"
            Using command As New MySqlCommand(query, connection)
                command.Parameters.AddWithValue("@username", username)
                command.Parameters.AddWithValue("@password", password)
                Dim count As Integer = Convert.ToInt32(command.ExecuteScalar())
                Return count > 0
            End Using
        End Using
    End Function
End Class
```

Module1.vb

```vb
Imports MySql.Data.MySqlClient
Module Module1
    Public CONN As MySqlConnection
    Public CMD As MySqlCommand
    Public RD As MySqlDataReader
    Public DA As MySqlDataAdapter
```

```vbnet
    Public DS As DataSet
    Public STR As String
    Sub koneksi()
        Try
            Dim STR As String =
            "server=localhost;userid=root;password=;database=dbtokomusik"
            'Ganti nama database sesuaikan dengan nama database kalian
            CONN = New MySqlConnection(STR)
            If CONN.State = ConnectionState.Closed Then
                CONN.Open()
            End If
        Catch ex As Exception
            MessageBox.Show(ex.Message)
        End Try
    End Sub
End Module
```

Link Youtube

https://youtu.be/Jch4ebYOCJE

FILE SQL DATABASE

dbtokomusik(1).sql

https://drive.google.com/drive/folders/1loN9nFh-rocfmBwh-9UfenmEQ9TAjB9s?usp=sharing