

21. Payroll system

1. Develop payroll for employee using service-based database in visual studio.

FRONTEND :

	Emp_ID	Emp_Name	Basic_Pay	HRA
*				

FRONTEND CODING

```
Imports System.Data.SqlClient
Imports System.Windows.Forms.VisualStyles.VisualStyleElement

Public Class Form1
    Dim conn As New SqlConnection
    Dim cmd As New SqlCommand
    Dim dt As DataTable
    Dim dr As SqlDataReader
    Dim da As New SqlDataAdapter
    Dim str As String
    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        'TODO: This line of code loads data into the 'PayrollDataSet.payroll_emp'
        table. You can move, or remove it, as needed.
        Me.Payroll_empTableAdapter.Fill(Me.PayrollDataSet.payroll_emp)
        conn.ConnectionString = "Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=D:\folders\MIS\Employee_PsyRoll\Em
ployee_PsyRoll\Payroll.mdf;Integrated Security=True"

    End Sub

    Private Overloads Sub Insert(sender As Object, e As EventArgs) Handles
Button1.Click
        conn.Open()
        str = "insert into payroll_emp values('" & TextBox1.Text & "','" &
        TextBox2.Text & "','" & TextBox3.Text & "','" & TextBox4.Text & "','" &
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TextBox5.Text & "',' & TextBox6.Text & "',' & TextBox7.Text & "',' &
TextBox8.Text & "'"")
    cmd = New SqlCommand(str, conn)
    If cmd.ExecuteNonQuery() Then
        MsgBox("successfully inserted")
    End If
    cmd.Dispose()

    conn.Close()
End Sub

Private Overloads Sub Update(sender As Object, e As EventArgs) Handles
Button2.Click
    conn.Open()
    str = "update payroll_emp set Emp_ID='" & TextBox1.Text & "',' Emp_Name='"
& TextBox2.Text & "',' Basic_Pay='" & TextBox3.Text & "',' HRA='" & TextBox4.Text &
"' , DA='" & TextBox5.Text & "',' PF='" & TextBox6.Text & "',' Gross_Pay='" &
TextBox7.Text & "',' Net_Pay='" & TextBox8.Text & "'" where Emp_ID =" &
TextBox1.Text & "'"
    cmd = New SqlCommand(str, conn)
    If cmd.ExecuteNonQuery() Then
        MsgBox("successfully updated")
    End If
    cmd.Dispose()
    conn.Close()
End Sub

Private Overloads Sub Delete(sender As Object, e As EventArgs) Handles
Button3.Click
    conn.Open()
    str = "Delete from payroll_emp where Emp_ID =" & TextBox1.Text & "'"
    cmd = New SqlCommand(str, conn)
    If cmd.ExecuteNonQuery() Then
        MsgBox("successfully deleted")
    End If
    cmd.Dispose()
    conn.Close()
End Sub

Private Overloads Sub View(sender As Object, e As EventArgs) Handles
Button4.Click
    DataGridView1.Visible = True
    conn.Open()
    str = "select * from payroll_emp"
    cmd = New SqlCommand(str, conn)
    da = New SqlDataAdapter(cmd)
    dt = New DataTable
    da.Fill(dt)
    DataGridView1.DataSource = dt
    cmd.Dispose()
    conn.Close()
End Sub

Private Overloads Sub Calculate(sender As Object, e As EventArgs) Handles
Button5.Click
4    Dim BP, HRA, DA, PF, total, add As Integer
    BP = TextBox3.Text
    HRA = TextBox4.Text
    DA = TextBox5.Text
    PF = TextBox6.Text
    total = BP + HRA + DA
    TextBox7.Text = total
    add = PF + total


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        TextBox8.Text = add
    End Sub
End Class

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BACKEND DATABASE SET :

Update Script File: dbo.payroll_emp.sql					
	Name	Data Type	Allow Nulls	Default	
	Emp_ID	int	<input type="checkbox"/>		
	Emp_Name	nchar(10)	<input type="checkbox"/>		
	Basic_Pay	float	<input checked="" type="checkbox"/>		
	HRA	float	<input type="checkbox"/>		
	DA	float	<input type="checkbox"/>		
	PF	float	<input type="checkbox"/>		
	Gross_Pay	float	<input type="checkbox"/>		
	Net_Pay	float	<input type="checkbox"/>		
			<input type="checkbox"/>		

BACKEND SQL CODING :

```

CREATE TABLE [dbo].[payroll_emp] (
    [Emp_ID] INT NOT NULL,
    [Emp_Name] NCHAR (10) NOT NULL,
    [Basic_Pay] FLOAT (53) NULL,
    [HRA] FLOAT (53) NOT NULL,
    [DA] FLOAT (53) NOT NULL,
    [PF] FLOAT (53) NOT NULL,
    [Gross_Pay] FLOAT (53) NOT NULL,
    [Net_Pay] FLOAT (53) NOT NULL,
    PRIMARY KEY CLUSTERED ([Emp_ID] ASC)
);

```

