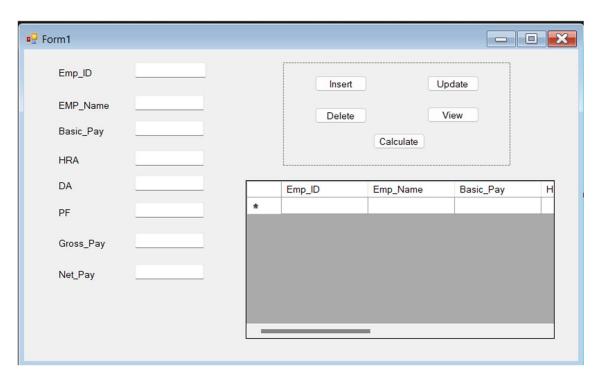
21.Payroll system

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

FRONTFND:



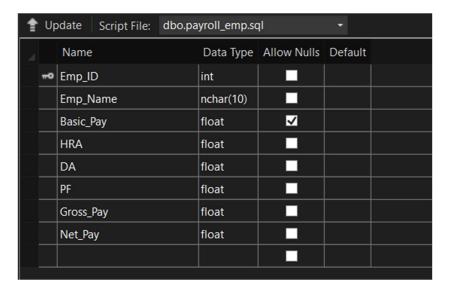
FRONTEND CODING

```
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"
   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 & "','" &
```

```
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()
    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
         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
```

```
TextBox8.Text = add
   End Sub
End Class
```

BACKEND DATABASE SET :



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)
);
```