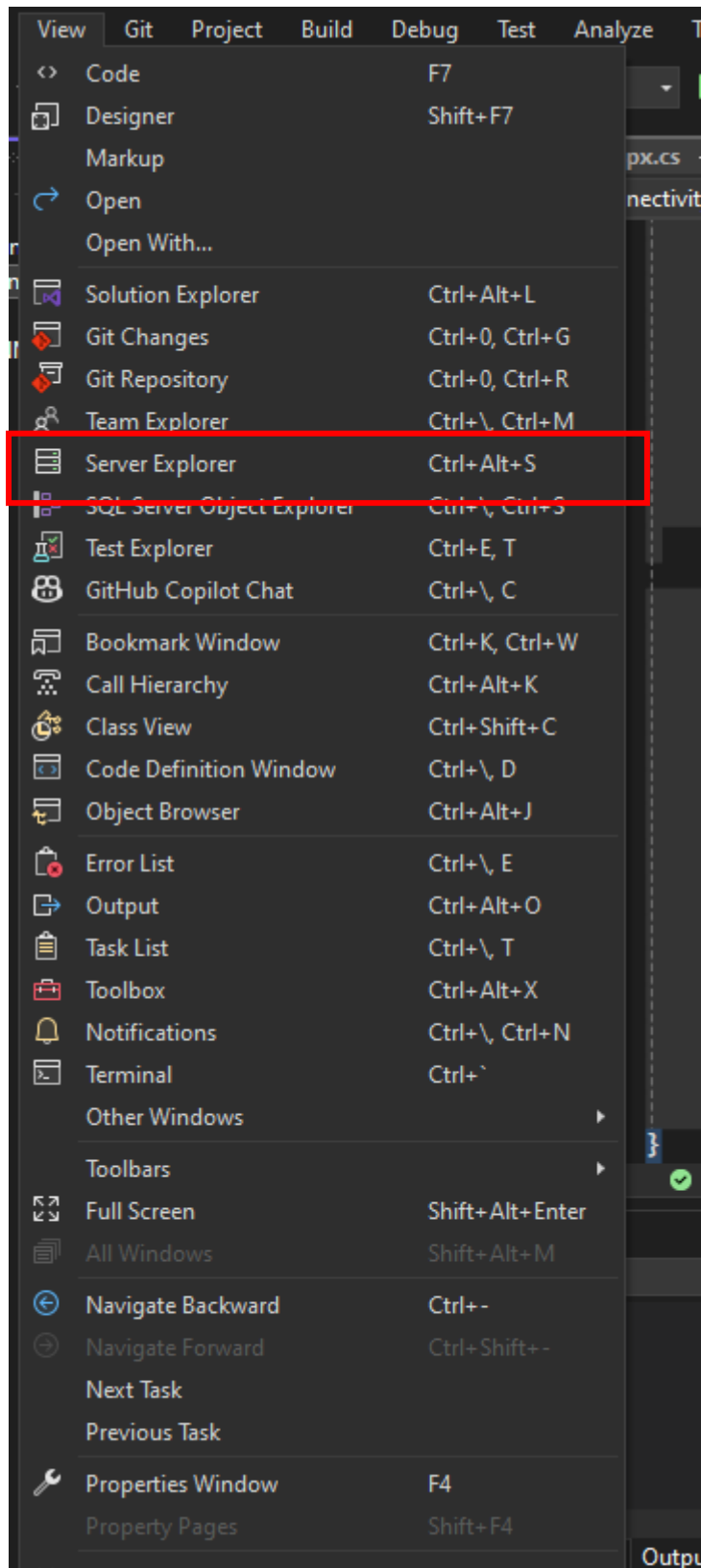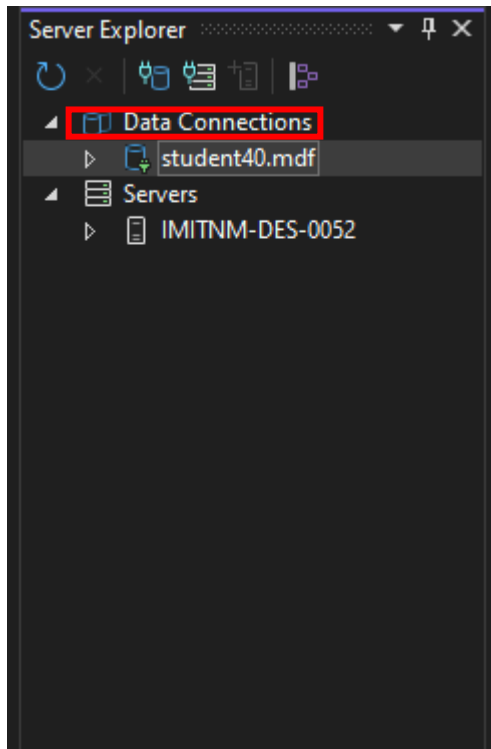**Name: Rajvardhan Ganpatrao Patil**
Roll No: 40   Div: A

1. Create a web application to connect to a database using ADO.NET and display data in a GridView.(connected and disconnected)

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A
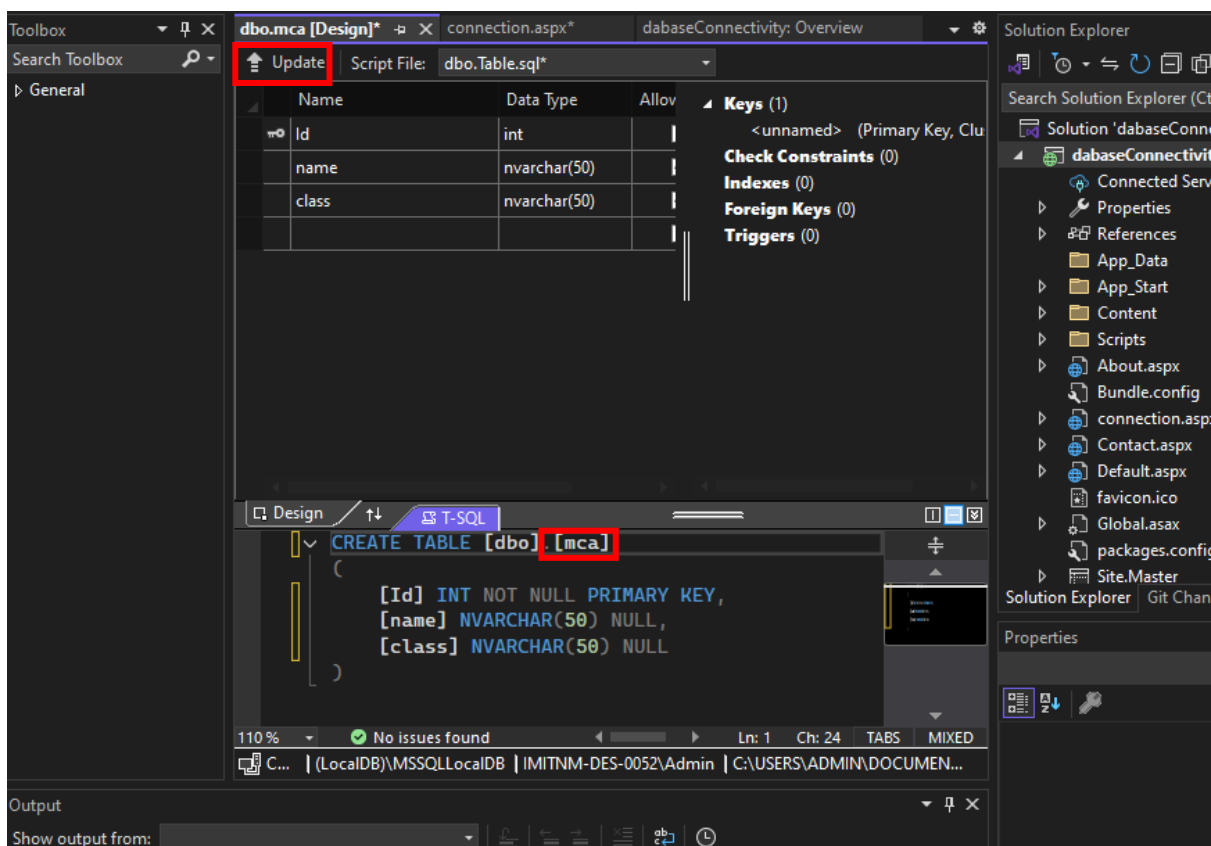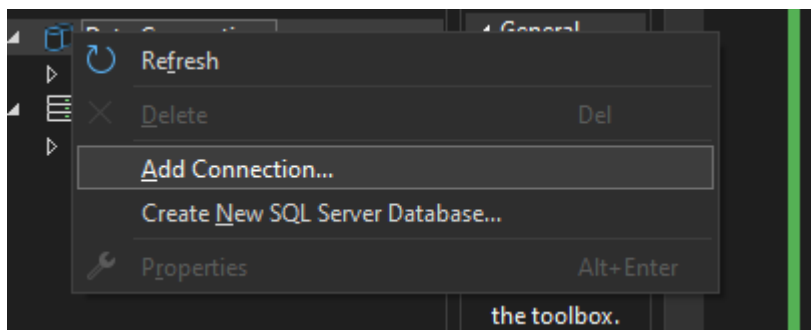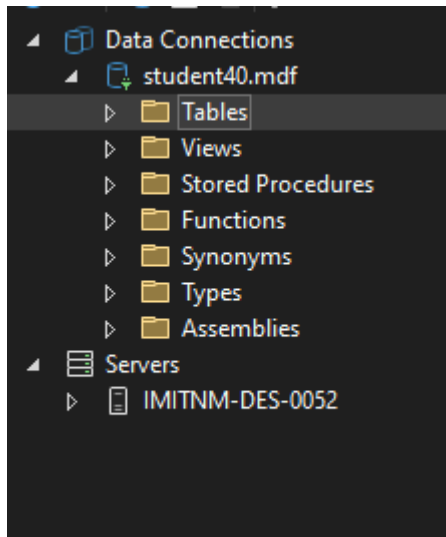
Click on update to create table
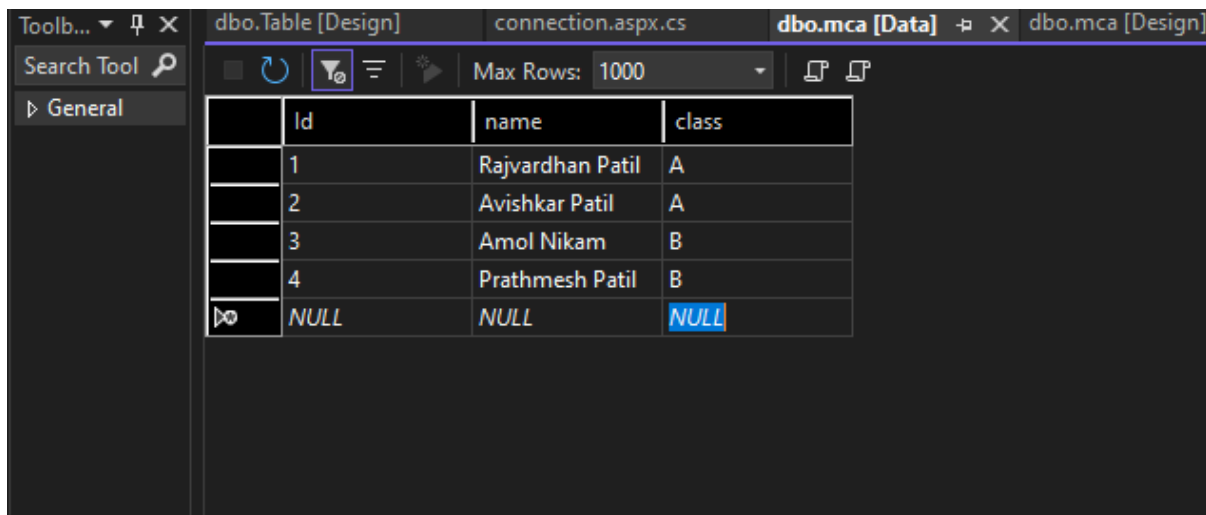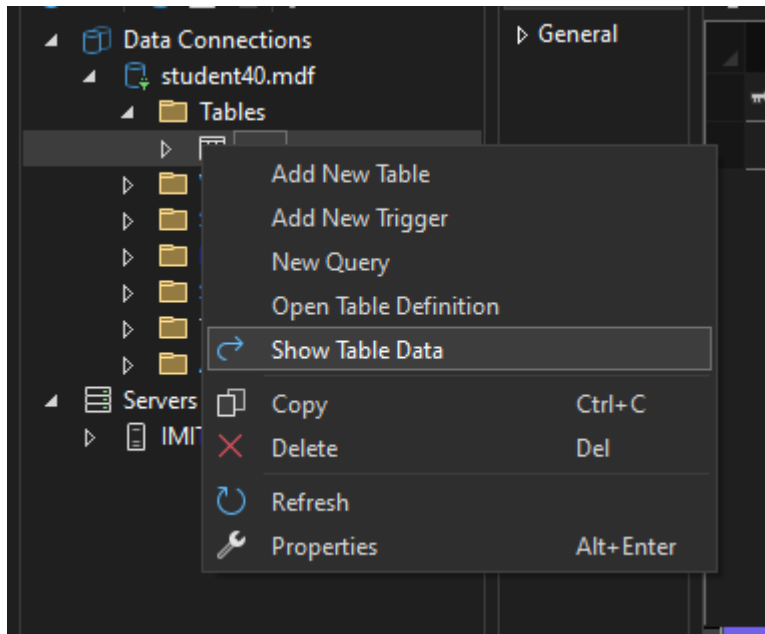
```csharp
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace dabaseConnectivity
{
    public partial class connection : System.Web.UI.Page
    {
        String StrSQL = "", StrConnection = "";
        protected void Page_Load(object sender, EventArgs e)
        {
            StrSQL = "select * from mca";
            StrConnection = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\student40.mdf;I
ntegrated Security=True;Connect Timeout=30";
        }


        protected void Button1_Click(object sender, EventArgs e)
        {
```

```
            using (SqlConnection objConn = new SqlConnection(StrConnection))
            {
                SqlCommand objCmd = new SqlCommand(StrSQL, objConn);
                objCmd.CommandType = CommandType.Text;
                objConn.Open();
                SqlDataReader objDr = objCmd.ExecuteReader();
                GridView1.DataSource = objDr;
                GridView1.DataBind();
                objConn.Close();
            }
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            SqlDataAdapter objDa = new SqlDataAdapter();
            DataSet objDs = new DataSet();
            using (SqlConnection objConn = new SqlConnection(StrConnection))
            {
                SqlCommand objCmd = new SqlCommand(StrSQL, objConn);
                objCmd.CommandType = CommandType.Text;
                objDa.SelectCommand = objCmd;
                objDa.Fill(objDs, "Student");
                GridView1.DataSource = objDs.Tables[0];
                GridView1.DataBind();
            }
        }
    }
}
```

Output:

Connected	Disconnected
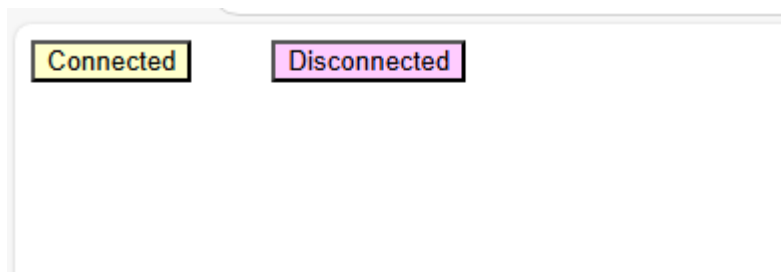
Connected

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

Id	name	class
1	Rajvardhan Patil	A
2	Avishkar Patil	A
3	Amol Nikam	B
4	Prathmesh Patil	B

Connected   Disconnected

Disconnected

Id	name	class
1	Rajvardhan Patil	A
2	Avishkar Patil	A
3	Amol Nikam	B
4	Prathmesh Patil	B

Connected   Disconnected

2. Implement a form to insert, update, delete, and display student records using connected architecture.

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

```csharp
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace crud_operations
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlConnection con;
        SqlCommand cmd;
        SqlDataReader dr;
        protected void Page_Load(object sender, EventArgs e)
        {
            con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\emp.mdf;Integra
ted Security=True;Connect Timeout=30;");
        }
        private void Display() {
            con.Open();
            cmd = new SqlCommand("select * from emp", con);
            dr = cmd.ExecuteReader();
            DataTable dt = new DataTable();
            dt.Load(dr);
            GridView1.DataSource = dt;
            GridView1.DataBind();
            con.Close();
        }

        protected void btnInsert_Click(object sender, EventArgs e)
        {
            con.Open();
            int eid = Convert.ToInt32(txteid.Text);
            String ename = txtename.Text;
            String edept = txtedept.Text;
            cmd = new SqlCommand("insert into emp values('"+eid+"',
'"+ename+"','"+edept+"')",con);
            cmd.ExecuteNonQuery();
            Response.Write("one record inserted: ");
            con.Close();
            Display();
        }

        protected void btnUpdate_Click(object sender, EventArgs e)
        {
            con.Open();
            int eid = Convert.ToInt32(txteid.Text);
            String ename = txtename.Text;
            String edept = txtedept.Text;
            string query = "update emp set eid ='" + eid + "', ename ='" + ename +
"',edept ='"+edept+"' where eid = '"+eid+"'";
            SqlCommand cmd = new SqlCommand(query,con);
            cmd.ExecuteNonQuery();
            Response.Write("one record updated");
            con.Close();
            Display();
        }

        protected void btnDelete_Click(object sender, EventArgs e)
        {
            con.Open();
            int eid = Convert.ToInt32(txteid.Text);
            cmd = new SqlCommand("delete from emp where eid='" + eid + "'",con);
            cmd.ExecuteNonQuery();
            Response.Write("One record Delete:");
```

```
            con.Close();
            Display();
        }

        protected void btnShow_Click(object sender, EventArgs e)
        {
            Display();
        }

        protected void btnSearch_Click(object sender, EventArgs e)
        {
            con.Open();
            int eid = Convert.ToInt32(txteid.Text);
            String query = "select eid,ename,edept from emp where eid ='"+eid+"' ";
            cmd = new SqlCommand(query,con);
            Response.Write("One record search:");
            dr = cmd.ExecuteReader();
            DataTable dt = new DataTable();
            dt.Load(dr);
            GridView1.DataSource = dt;
            GridView1.DataBind();
            con.Close();

        }

        protected void btnTotal_Click(object sender, EventArgs e)
        {
            con.Open();
            cmd = new SqlCommand("select Count(*) from emp",con); ;
            int a = (int)cmd.ExecuteScalar();
            lblCount.Text = "Total Record:--->" + a.ToString();
            con.Close();
        }
    }
}
```

Output:

Emp ID:

Emp Name:

Emp Dept

| Insert | Update | Delete |

| Show | Search | Total |

Insert Data:

one record inserted:

Emp ID: 3

Emp Name: Amol

Emp Dept   Cs

| Insert | Update | Delete |

| Show | Search | Total |

EId	Ename	Edept
1	Rajvardhan	Cs
2	Avishkar	Cs
3	Amol	Cs

Update Record:

one record updated

Emp ID: 2

Emp Name: Avi

Emp Dept   Entc

| Insert | Update | Delete |

| Show | Search | Total |

EId	Ename	Edept
1	Rajvardhan	Cs
2	Avi	Entc
3	Amol	Cs

Delete Record:

One record Delete:

Emp ID: | 1
Emp Name:
Emp Dept

| Insert | Update | Delete |
| Show | Search | Total |

EId	Ename	Edept
2	Avi	Entc
3	Amol	Cs

Search the Record:

One record search:

Emp ID: | 3
Emp Name:
Emp Dept

| Insert | Update | Delete |
| Show | Search | Total |

eid	ename	edept
3	Amol	Cs

Print the Total Record Count:

Emp ID:
Emp Name:
Emp Dept

| Insert | Update | Delete |
| Show | Search | Total |

Total Record:--->2

eid	ename	edept
3	Amol	Cs

3. Design a web application using disconnected architecture (DataSet and DataAdapter) for managing data.

```csharp
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.OleDb;
using System.Data.SqlClient;
using System.Configuration;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace AWT_Lab_A40
{
    public partial class flrogram13 : System.Web.UI.flage
    {
        SqlConnection Con;
        SqlCommand Cmd;
        SqlDataReader dr;
        String conn =
ConfigurationManager.ConnectionStrings["dbStudent"].ConnectionString;
        protected void flage_Load(object sender, EventArgs e)
        {
            Con = new SqlConnection(conn);
            // Con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\Student.m
df;Integrated  Security=True;Connect  Timeout=30");

        }
        void Display()
        {
            Con.Open();
            String query = "Select * From Employee";
            Cmd = new SqlCommand(query, Con);
            dr = Cmd.ExecuteReader();
            GridView1.DataSource = dr;
            GridView1.DataBind();
            Con.Close();
        }
        protected void insert_Click(object sender, EventArgs e)
        {
            try
            {
                Con.Open();
                String query = "insert into Employee (id, name, age) values ('"
                        + Convert.ToInt32(TextBox1.Text) + "','" + TextBox4.Text +
"','" + Convert.ToInt32(TextBox3.Text) + "')";
                Cmd = new SqlCommand(query, Con);
                SqlDataAdapter sda = new SqlDataAdapter(Cmd);
                DataSet ds = new DataSet();
                // DataTable empTable = ds.Tables[""];
                sda.Fill(ds, "Employee");
                sda.Update(ds, "Employee");
                DataTable empTable = ds.Tables["Employee"];
                GridView1.DataSource = ds;
               //Display();
                Label1.Text = "inserted into Succesfull";
            }
            catch (Exception ex)
            {
                Label1.Text = "Error" + ex.Message;

            }
        }

        protected void update_Click(object sender, EventArgs e)
        {
```

```csharp
            try
            {
                Con.Open();
                String query = "Update Employee set name='" + TextBox4.Text + "',
age='" + Convert.ToInt32(TextBox3.Text) + "'where id='" +
Convert.ToInt32(TextBox1.Text) + "'";
                Cmd = new SqlCommand(query, Con);
                SqlDataAdapter sda = new SqlDataAdapter(Cmd);
                DataSet ds = new DataSet();
                // DataTable empTable = ds.Tables[""];
                sda.Fill(ds, "Employee");
                sda.Update(ds, "Employee");

                DataTable empTable = ds.Tables["Employee"];
                GridView1.DataSource = ds;
                Display();
                Label1.Text = "updated into Succesfull";
            }
            catch (Exception ex)
            {
                Label1.Text = "Error" + ex.Message;

            }

        }

        protected void show_Click(object sender, EventArgs e)
        {
            Display();
        }

        protected void delete_Click(object sender, EventArgs e)
        {
            try
            {
                Con.Open();
                String query = "Delete   From Employee where id='" +
Convert.ToInt32(TextBox1.Text) + "'";
                Cmd = new SqlCommand(query, Con);
                SqlDataAdapter sda = new SqlDataAdapter(Cmd);
                DataSet ds = new DataSet();
                // DataTable empTable = ds.Tables[""];
                sda.Fill(ds, "Employee");
                sda.Update(ds, "Employee");
                DataTable empTable = ds.Tables["Employee"];
                GridView1.DataSource = ds;
                Display();
                Label1.Text = "deleted   one record Succesfull";
            }
            catch (Exception ex)
            {
                Label1.Text = "Error" + ex.Message;

            }
        }

        protected void search_Click(object sender, EventArgs e)
        {
            try
            {
                Con.Open();
                String query = "Select * From Employee where id='" +
Convert.ToInt32(TextBox1.Text) + "'";
                Cmd = new SqlCommand(query, Con);
                SqlDataAdapter sda = new SqlDataAdapter(Cmd);
                DataSet ds = new DataSet();
                // DataTable empTable = ds.Tables[""];
```

```
                    sda.Fill(ds, "Employee");
                    sda.Update(ds, "Employee");
                    DataTable empTable = ds.Tables["Employee"];
                    GridView1.DataSource = ds;
                    Display();

                }
                catch (Exception ex)
                {

                    Label1.Text = "Error" + ex.Message;

                }
            }
        }
    }
}
```

Emp ID :   88

Emp Name :   raj singh

Emp Age :   21

| Insert | Update | Delete |
| Search | Show |

inserted into Succesfull

Emp ID :   88

Emp Name :   raj

Emp Age :   21

| Insert | Update | Delete |
| Search | Show |

updated into Succesfull

Emp ID : 88

Emp Name : raj

Emp Age : 21

Insert Update Delete
Search Show

Id	name	age
88	raj	21
22	sgdbf	12
89	rajjj	99
552	kjhsfk	11
454	fghnjgf	567
1	harsh	25

Emp ID : 88

Emp Name : raj

Emp Age : 21

Insert Update Delete
Search Show

Id	name	age
22	sgdbf	12
89	rajjj	99
552	kjhsfk	11
454	fghnjgf	567
1	harsh	25
4567	dfgbdftb	456
99	santosh	43
87	harsh	55

deleted one record Succesfull

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

4. Develop a stored procedure to fetch employee details and display them using a DetailsView control.

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

```
dbo.SP.sql *  +  ×   SP_Demo.aspx.cs      SP_Demo.aspx
⬆ Update
    CREATE PROCEDURE [dbo].[SP]
        @Action VARCHAR(10),
        @Eid VARCHAR(20)=NULL,
        @Ename VARCHAR(50)=NULL,
        @Edept VARCHAR(50)=NULL
    AS
    BEGIN
    SET NOCOUNT ON;
    IF @Action = 'SELECT'
    BEGIN
    SELECT eId,eName,eDepartment
    FROM employee
    END
    IF @Action = 'INSERT'
    BEGIN
    INSERT INTO employee(eId,eName,eDepartment)
    VALUES(@Eid,@Ename,@Edept)
    END
    IF @Action = 'UPDATE'
    BEGIN
    UPDATE employee
    SET eName = @Ename, eDepartment = @Edept
    WHERE eId = @Eid
    END
    IF @Action = 'DELETE'
    BEGIN
    DELETE FROM employee
    WHERE eId = @Eid
    END
    END
    RETURN 0

91 %    ⊘ No issues found                                          Ln: 13   Ch: 4   TABS   MIXED
⊟ Connection Ready           |(LocalDB)\MSSQLLocalDB | IMITNM-DES-0050\Admin | C:\USERS\ADMIN\DOCUMEN... | 00:00:00 | 0 rows
```
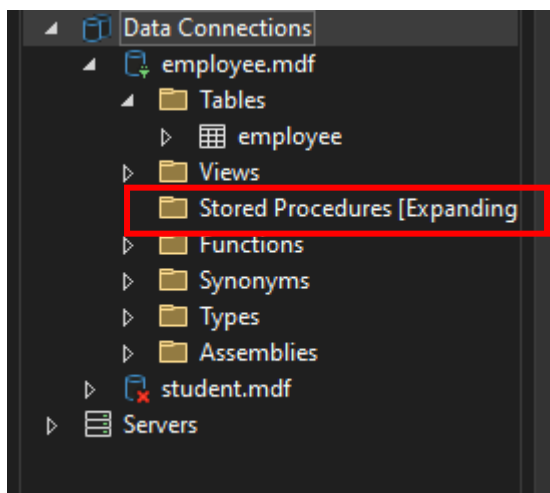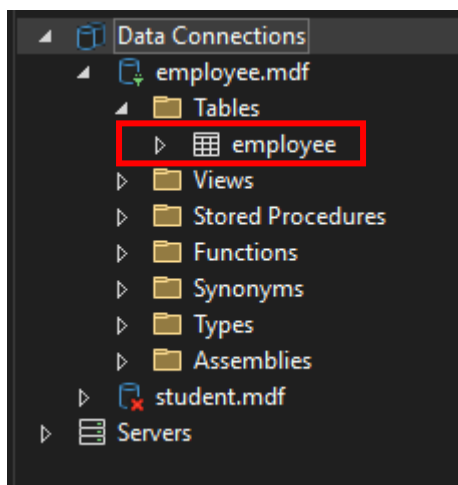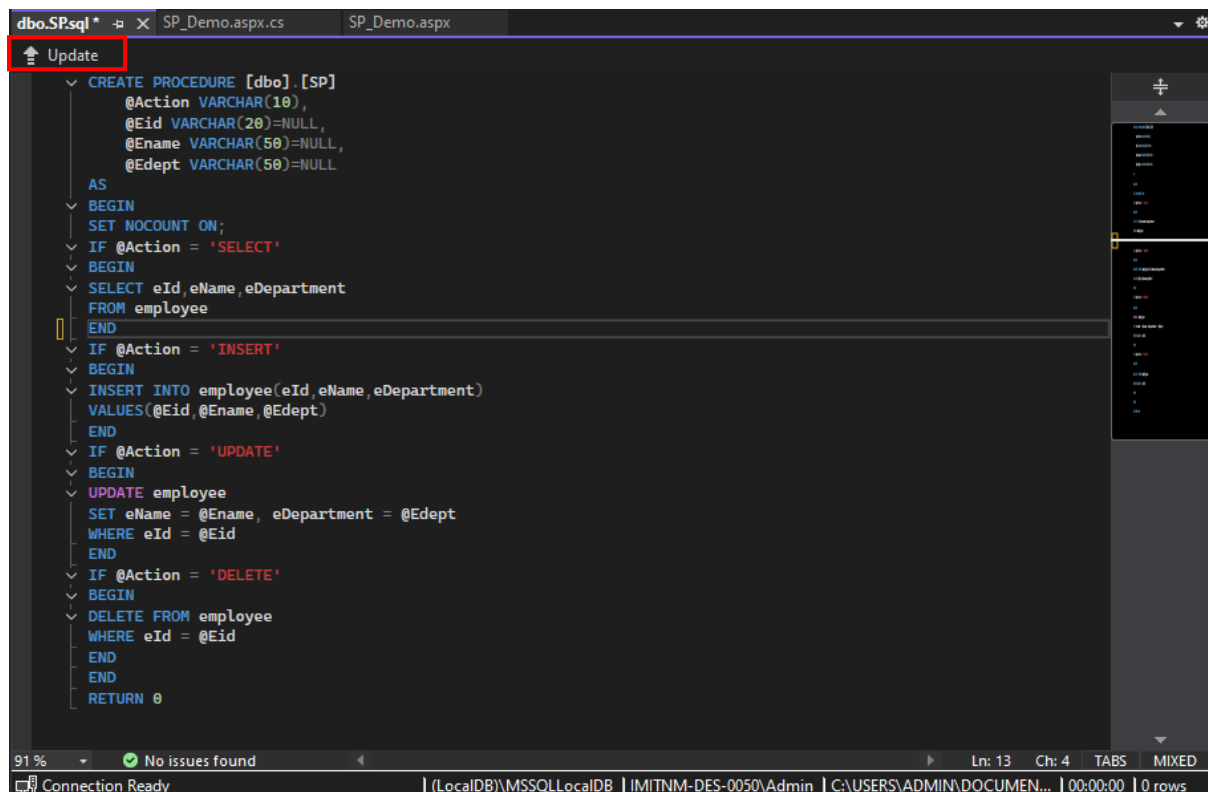
Preview Database Updates   ?   ✕

Highlights
  None

User actions
  Alter
    [dbo].[SP] (Procedure)

Supporting actions
  None

☑ Include transactional scripts

Generate Script   Update Database   Cancel

```csharp
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
```

```csharp
namespace StoreProccesure
{
    public partial class SP_Demo : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        private void BindGrid()
        {
            using (SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\employee.mdf;In
tegrated Security=True;Connect Timeout=30;"))
            {
                using (SqlCommand cmd = new SqlCommand("SP", con))
                {
                    cmd.CommandType = System.Data.CommandType.StoredProcedure;
                    cmd.Parameters.AddWithValue("@Action", "SELECT");
                    SqlDataAdapter da = new SqlDataAdapter(cmd);
                    DataTable dt = new DataTable();
                    da.Fill(dt);
                    GridView1.DataSource = dt;
                    GridView1.DataBind();
                }

            }
        }

        protected void btnselect_Click(object sender, EventArgs e)
        {
            BindGrid();
        }

        protected void btnadd_Click(object sender, EventArgs e)
        {
            using (SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\employee.mdf;In
tegrated Security=True;Connect Timeout=30;"))
            {
                using (SqlCommand cmd = new SqlCommand("SP", con))
                {
                    cmd.CommandType = CommandType.StoredProcedure;
                    cmd.Parameters.AddWithValue("@Action", "INSERT");
                    cmd.Parameters.AddWithValue("@Eid", Convert.ToInt32(txteid.Text));
                    cmd.Parameters.AddWithValue("@Ename",txtename.Text);
                    cmd.Parameters.AddWithValue("@Edept", txtedept.Text);

                    con.Open();
                    cmd.ExecuteNonQuery();
                    con.Close();
                }
                BindGrid();
                txteid.Text = txtename.Text = txtedept.Text = "";
            }
        }

        protected void btnupdate_Click(object sender, EventArgs e)
        {
            using (SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\employee.mdf;In
tegrated Security=True;Connect Timeout=30;"))
            {
                using (SqlCommand cmd = new SqlCommand("SP", con))
                {
                    cmd.CommandType = CommandType.StoredProcedure;
                    cmd.Parameters.AddWithValue("@Action", "UPDATE");
                    cmd.Parameters.AddWithValue("@Eid",txteid.Text);
```

```
                    cmd.Parameters.AddWithValue("@Ename", txtename.Text);
                    cmd.Parameters.AddWithValue("@Edept", txtedept.Text);

                    con.Open();
                    cmd.ExecuteNonQuery();
                    con.Close();
                }
            BindGrid();
            txteid.Text = txtename.Text = txtedept.Text = "";
        }
    }

    protected void btndel_Click(object sender, EventArgs e)
    {
        using (SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\employee.mdf;In
tegrated Security=True;Connect Timeout=30;"))
        {
            using (SqlCommand cmd = new SqlCommand("SP", con))
            {
                cmd.CommandType = CommandType.StoredProcedure;
                cmd.Parameters.AddWithValue("@Action", "DELETE");
                cmd.Parameters.AddWithValue("@Eid",txteid.Text);

                con.Open();
                cmd.ExecuteNonQuery();
                con.Close();
            }
            BindGrid();
        }
    }
}
}
```

Output:

Insert

Web Page for Demontration of Store Procedure

eId	eName	eDepartment
1	raj	cs
2	avi	entc
3	sujal	cs

Eid   3
Ename   sujal
Department   cs

[Add]   [Update]   [Delete]   [Select]

Update:

Web Page for Demontration of Store Procedure

eId	eName	eDepartment
1	raj	cs
2	avi	entc
3	siddhu	cs

Eid

Ename

Department

Add   Update   Delete   Select

Delete:

Web Page for Demontration of Store Procedure

eId	eName	eDepartment
1	raj	cs
2	avi	entc

Eid   3

Ename

Department

Add   Update   Delete   Select

Select:

Web Page for Demontration of Store Procedure

eId	eName	eDepartment
1	raj	cs
2	avi	entc

Eid

Ename

Department

Add   Update   Delete   Select

5. Web Application to demonstrate LINQ with object data source.

Name: Rajvardhan Ganpatrao Patil
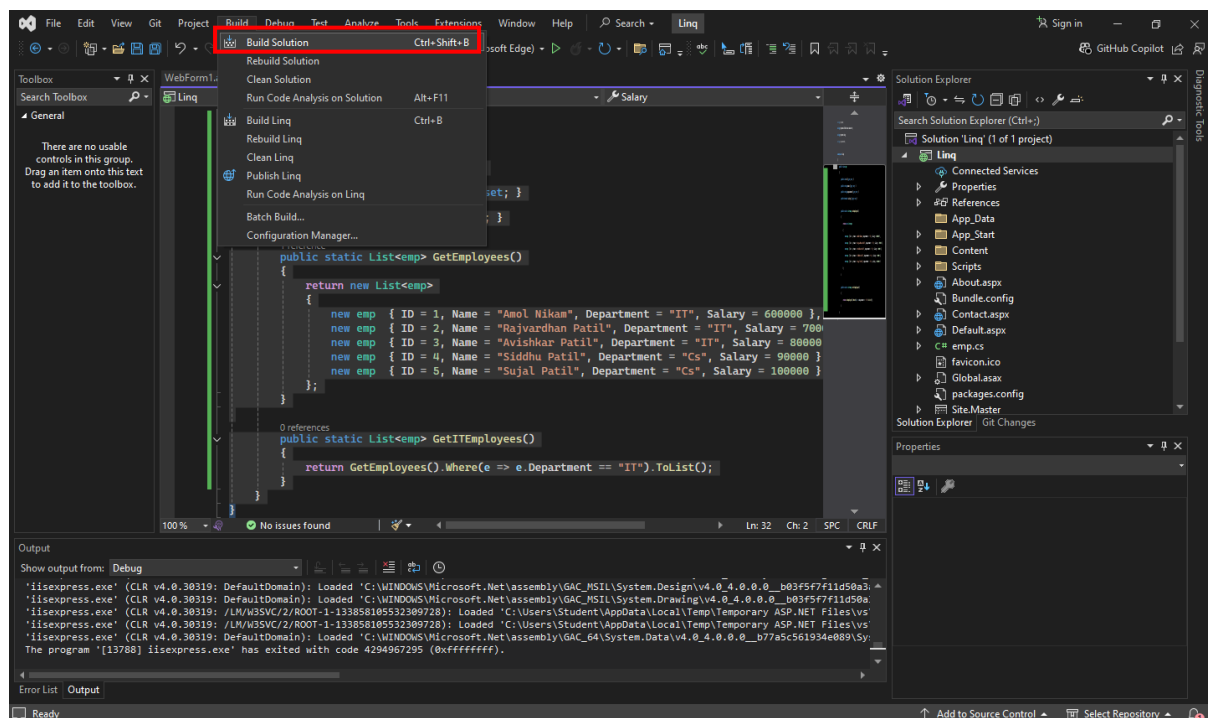**Roll No: 40   Div: A**

Linq with the object datasorce

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace Linq
{
    public class emp
    {
        public int ID { get; set; }
        public string Name { get; set; }
        public string Department { get; set; }
        public decimal Salary { get; set; }

        public static List<emp> GetEmployees()
        {
            return new List<emp>
            {
                new emp  { ID = 1, Name = "Amol Nikam", Department = "IT", Salary = 600000 },
                new emp  { ID = 2, Name = "Rajvardhan Patil", Department = "IT", Salary = 70000 },
                new emp  { ID = 3, Name = "Avishkar Patil", Department = "IT", Salary = 80000 },
                new emp  { ID = 4, Name = "Siddhu Patil", Department = "Cs", Salary = 90000 },
                new emp  { ID = 5, Name = "Sujal Patil", Department = "Cs", Salary = 100000 }
            };
        }

        public static List<emp> GetITEmployees()
        {
            return GetEmployees().Where(e => e.Department == "IT").ToList();
        }
    }
}
```

body

ID	Name	Department	Salary
0	abc	abc	0
1	abc	abc	0.1
2	abc	abc	0.2
3	abc	abc	0.3
4	abc	abc	0.4

ObjectDataSource - ObjectDataSource1

| ID	Name	Department	Salary
0	abc	abc	0
1	abc	abc	0.1
2	abc	abc	0.2
3	abc	abc	0.3
4	abc	abc	0.4

asp:objectdatasource#ObjectDataSou...

ObjectDataSource - ObjectDataSource1

ObjectDataSource Tasks
Configure Data Source...
Refresh Schema

Configure Data Source - ObjectDataSource1   ?   ×

Choose a Business Object

Select a business object that can be used to retrieve or update data (for example, an object defined in the Bin or App_Code directory for this application).

Choose your business object:

Linq.emp   ☐ Show only data components

< Previous   Next >   Finish   Cancel

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

Output:

ID	Name	Department	Salary
1	Amol Nikam	IT	600000
2	Rajvardhan Patil	IT	70000
3	Avishkar Patil	IT	80000

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

6. Web Application to demonstrate LINQ with data set.

Linq with the dataset

```csharp
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace Linq
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!Page.IsPostBack)
            {
                BindGridViews();
            }
        }
        protected void BindGridViews()
        {
            DataSet ds = new DataSet();
            using (SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Student\Documents\raj.mdf;Integ
rated Security=True;Connect Timeout=30"))
            {
                con.Open();
                SqlCommand cmd = new SqlCommand("select * from emp",con);
                cmd.CommandType = CommandType.Text;
                SqlDataAdapter da = new SqlDataAdapter(cmd);
                da.Fill(ds);
                con.Close();
                if(ds.Tables[0].Rows.Count > 0)
                {
                    var result = from dt in ds.Tables[0].AsEnumerable() where
(dt.Field<string>("ename").EndsWith("i"))
                                 select new
                                 {
                                     Ename = dt.Field<string>("ename"),
                                     Edept = dt.Field<string>("dept"),
                                 };
                    GridView1.DataSource = result;
                    GridView1.DataBind();

                }
            }
        }
    }
}
```

Output:

Ename	Edept
aarvi	cs
avi	cs
pranali	cs

7. Create a webpage that demonstrates the use of data bound controls

Table Design(emp)

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A
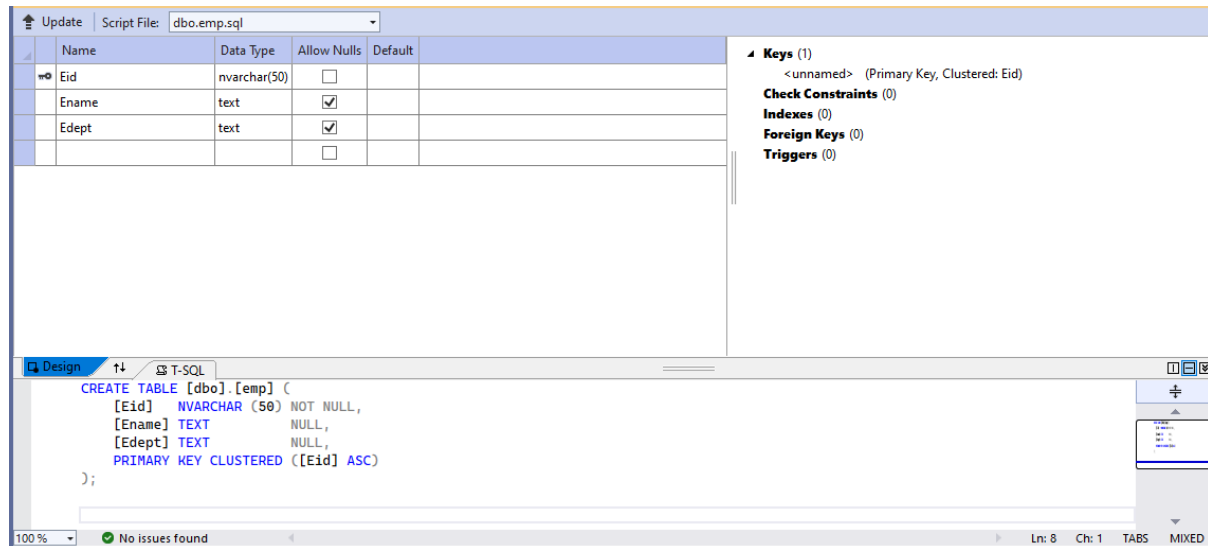
Web.config

```xml
<?xml version="1.0" encoding="utf-8"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  https://go.microsoft.com/fwlink/?LinkId=169433
  -->
<configuration>
    <connectionStrings>
        <add name="MyDB" connectionString="Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\emp.mdf;Integrated Security=True;Connect Timeout=30;Encrypt=False" providerName="System.Data.SqlClient"/>

    </connectionStrings>
  <system.web>
    <compilation debug="true" targetFramework="4.7.2" />
    <httpRuntime targetFramework="4.7.2" />
    <pages>
      <namespaces>
        <add namespace="System.Web.Optimization" />
      </namespaces>
      <controls>
        <add assembly="Microsoft.AspNet.Web.Optimization.WebForms" namespace="Microsoft.AspNet.Web.Optimization.WebForms" tagPrefix="webopt" />
      </controls>
    </pages>
  </system.web>
  <runtime>
    <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
      <dependentAssembly>
        <assemblyIdentity name="Antlr3.Runtime" publicKeyToken="eb42632606e9261f" />
        <bindingRedirect oldVersion="0.0.0.0-3.5.0.2" newVersion="3.5.0.2" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Microsoft.Web.Infrastructure" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="0.0.0.0-2.0.0.0" newVersion="2.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Newtonsoft.Json" publicKeyToken="30ad4fe6b2a6aeed" />
        <bindingRedirect oldVersion="0.0.0.0-13.0.0.0" newVersion="13.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="0.0.0.0-1.6.5135.21930" newVersion="1.6.5135.21930" />
      </dependentAssembly>
    </assemblyBinding>
```

```
    </runtime>
    <system.codedom>
      <compilers>
        <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default
/nowarn:1659;1699;1701" />
        <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default
/nowarn:41008 /define:_MYTYPE=\&quot;Web\&quot; /optionInfer+" />
      </compilers>
    </system.codedom>
</configuration>
```

Source File
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="dbControl.aspx.cs"
Inherits="DataBoundDemo.dbControl" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <strong>GridView</strong></div>
        <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
BackColor="White" BorderColor="#999999" BorderStyle="None" BorderWidth="1px"
CellPadding="3" DataKeyNames="Eid"  GridLines="Vertical">
            <AlternatingRowStyle BackColor="#DCDCDC" />
            <Columns>
                <asp:BoundField DataField="Eid" HeaderText="Eid" ReadOnly="True"
SortExpression="Eid" />
                <asp:BoundField DataField="Ename" HeaderText="Ename"
SortExpression="Ename" />
                <asp:BoundField DataField="Edept" HeaderText="Edept"
SortExpression="Edept" />
            </Columns>
            <FooterStyle BackColor="#CCCCCC" ForeColor="Black" />
            <HeaderStyle BackColor="#000084" Font-Bold="True" ForeColor="White" />
            <PagerStyle BackColor="#999999" ForeColor="Black" HorizontalAlign="Center"
/>
            <RowStyle BackColor="#EEEEEE" ForeColor="Black" />
            <SelectedRowStyle BackColor="#008A8C" Font-Bold="True" ForeColor="White" />
            <SortedAscendingCellStyle BackColor="#F1F1F1" />
            <SortedAscendingHeaderStyle BackColor="#0000A9" />
            <SortedDescendingCellStyle BackColor="#CAC9C9" />
            <SortedDescendingHeaderStyle BackColor="#000065" />
        </asp:GridView>
        <p>
            <strong>Repeater (Custom Layout)</strong></p>
        <asp:Repeater ID="Repeater1" runat="server"
OnItemCommand="Repeater1_ItemCommand">
            <ItemTemplate>
                <p><b>Name: </b> <%#Eval("Ename") %> <b>Department: </b> <%#
Eval("Edept") %></p>

            </ItemTemplate>
        </asp:Repeater>
        <p>
            <strong>DataList (Multi-Column Layout)</strong></p>
        <asp:DataList ID="DataList1" runat="server" RepeatColumns="2">
            <ItemTemplate>
                <div style ="border:1px solid #ccc; padding:10px;">
```

```
                  <p><b>Name: </b> <%#Eval("Ename") %> <b>Department: </b> <%#
Eval("Edept") %></p>

                  </div>
            </ItemTemplate>
        </asp:DataList>
        <br />
        <strong>ListView(Flexible Display)<br />
        <br />
        <asp:ListView ID="ListView1" runat="server"
OnSelectedIndexChanged="ListView1_SelectedIndexChanged">
            <ItemTemplate>
                <li><b><%# Eval("Ename") %></b> - <%# Eval("Edept") %></li>
            </ItemTemplate>
        </asp:ListView>
        </strong>
        <p>
            <strong>DropDown</strong></p>
        <asp:DropDownList ID="DropDownList1" runat="server">
        </asp:DropDownList>
        <p>
            <strong>Checkbox</strong></p>
        <p>
            <asp:CheckBoxList ID="CheckBoxList1" runat="server">
            </asp:CheckBoxList>
        </p>
        <p>
            <strong>Radio Button</strong></p>
        <asp:RadioButtonList ID="RadioButtonList1" runat="server">
        </asp:RadioButtonList>
    </form>
</body>
</html>
```

dbControl.aspx

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace DataBoundDemo
{
    public partial class dbControl : System.Web.UI.Page
    {
        string connStr =
ConfigurationManager.ConnectionStrings["MyDB"].ConnectionString;
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                BindData();
            }
        }

        private void BindData()
        {
            using (SqlConnection conn = new SqlConnection(connStr))
            {
```

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

```csharp
            string query = "select * from emp";
            SqlDataAdapter da = new SqlDataAdapter(query,conn);
            DataTable dt = new DataTable();
            da.Fill(dt);

            //Binding data to various controls
            GridView1.DataSource = dt;
            GridView1.DataBind();

            Repeater1.DataSource = dt;
            Repeater1.DataBind();

            DataList1.DataSource = dt;
            DataList1.DataBind();

            ListView1.DataSource = dt;
            ListView1.DataBind();

            DropDownList1.DataSource = dt;
            DropDownList1.DataTextField = "Ename";
            DropDownList1.DataValueField = "Edept";
            DropDownList1.DataBind();

            CheckBoxList1.DataSource = dt;
            CheckBoxList1.DataTextField = "Ename";
            CheckBoxList1.DataValueField = "Edept";
            CheckBoxList1.DataBind();


            RadioButtonList1.DataSource = dt;
            RadioButtonList1.DataTextField = "Ename";
            RadioButtonList1.DataValueField = "Edept";
            RadioButtonList1.DataBind();
        }
    }
  }
}
```

GridView

Eid	Ename	Edept
1	Rajvardhan	cs
2	Avishkar	entc
3	Sujal	mech
4	Siddhu	cs
5	Raj	cs

Repeater (Custom Layout)

Name: Rajvardhan **Department:** cs

Name: Avishkar **Department:** entc

Name: Sujal **Department:** mech

Name: Siddhu **Department:** cs

Name: Raj **Department:** cs

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

DataList (Multi-Column Layout)

Name: Rajvardhan **Department:** cs	**Name:** Siddhu **Department:** cs
Name: Avishkar **Department:** entc	**Name:** Raj **Department:** cs
Name: Sujal **Department:** mech	

ListView(Flexible Display)

- **Rajvardhan - cs**
- **Avishkar - entc**
- **Sujal - mech**
- **Siddhu - cs**
- **Raj - cs**

DropDown
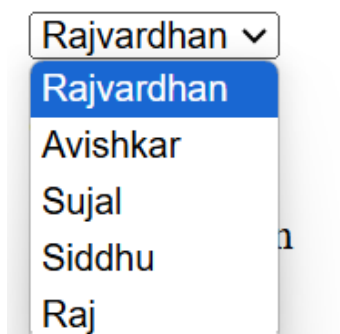
Rajvardhan ⌄
Rajvardhan
Avishkar
Sujal
Siddhu
Raj

Checkbox

☑ Rajvardhan
☐ Avishkar
☑ Sujal
☐ Siddhu
☑ Raj

Radio Button

◯ Rajvardhan
◉ Avishkar
◯ Sujal
◯ Siddhu
◯ Raj

8. Build websites to demonstrate the working of entity framework.
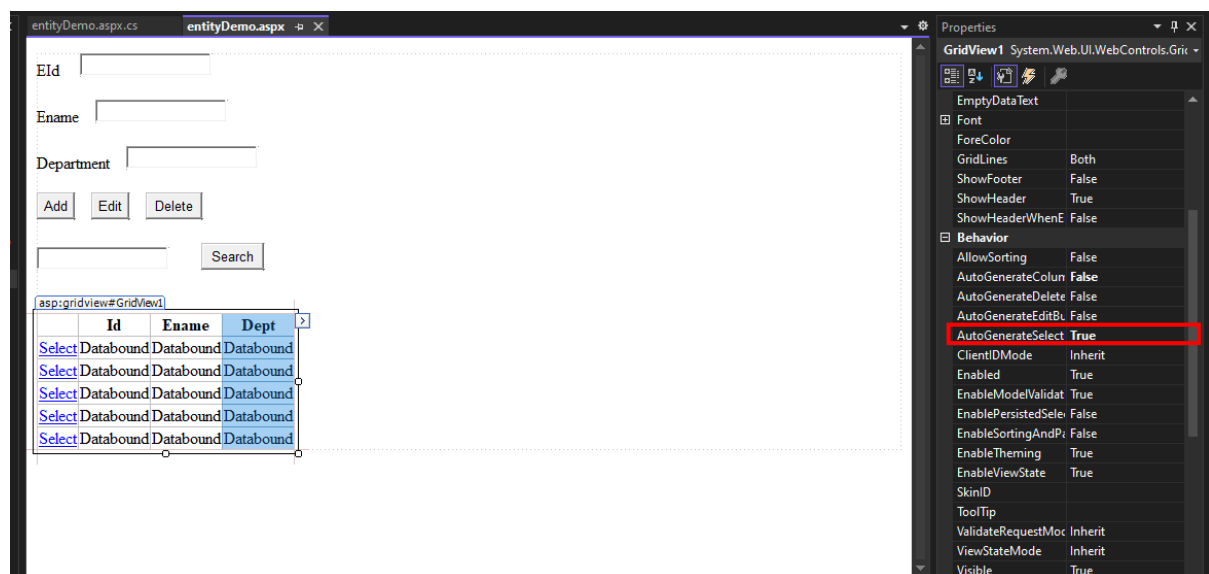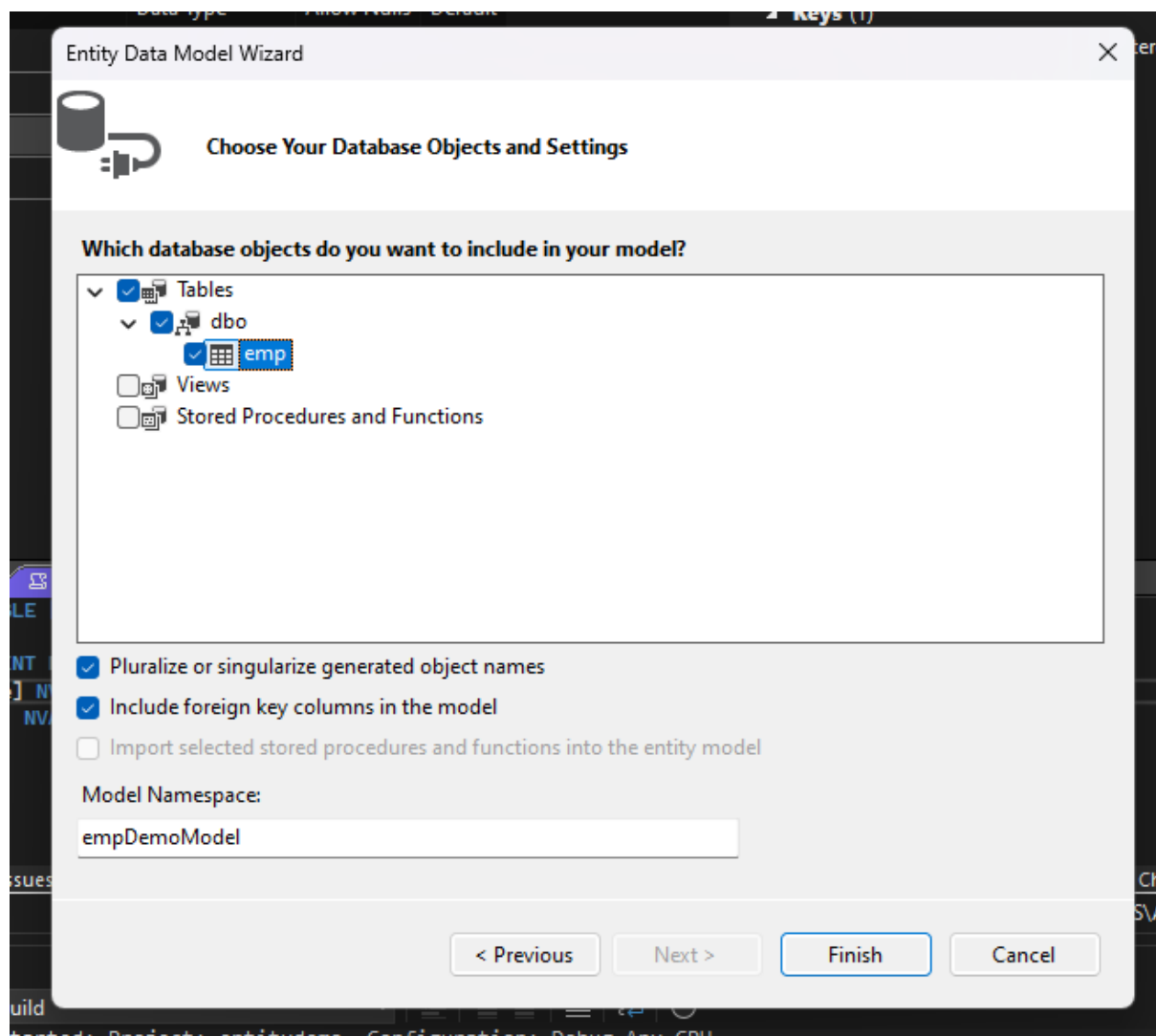
To get the select make true the autogenerateselect

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

Code:

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace entitydemo
{
    public partial class entityDemo : System.Web.UI.Page
    {
        readonly empDemoEntities1 db = new empDemoEntities1();
        readonly emp e1 = new emp();
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack) {
                BindGridView();
            }
        }

        public void BindGridView() {
            var result = (from E in db.emps select new {E.Id,
E.ename,E.dept}).ToList();
            GridView1.DataSource = result;
            GridView1.DataBind();
        }

        protected void btnadd_Click(object sender, EventArgs e)
        {
            e1.Id = int.Parse(txteid.Text);
            e1.ename = txtename.Text;
            e1.dept = txtdept.Text;

            db.emps.Add(e1);
            db.SaveChanges();
            BindGridView();
        }

        protected void btnedit_Click(object sender, EventArgs e)
        {
            e1.Id = int.Parse(txteid.Text);
            var result = (from E in db.emps where E.Id == e1.Id select E).Single();
            result.ename = txtename.Text;
            result.dept = txtdept.Text;
            db.SaveChanges();
            BindGridView();
        }

        protected void btndelete_Click(object sender, EventArgs e)
        {
            e1.Id = int.Parse(txteid.Text);
            var result = (from E in db.emps where E.Id == e1.Id select E).Single();
            db.emps.Remove(result);
            db.SaveChanges(); BindGridView();
        }

        protected void btnSearch_Click(object sender, EventArgs e)
        {
            e1.Id = int.Parse(txtsearch.Text);
            var result = (from E in db.emps where E.Id == e1.Id select new {
E.Id,E.ename,E.dept}).ToList();
            GridView1.DataSource = result;
            GridView1.DataBind();
        }

        protected void GridView1_SelectedIndexChanged(object sender, EventArgs e)
        {
```

```
            txteid.Text = GridView1.SelectedRow.Cells[1].Text;
            txtename.Text = GridView1.SelectedRow.Cells[2].Text;
            txtdept.Text = GridView1.SelectedRow.Cells[3].Text;
        }
    }
}
```

Output:

EId [   ]
Ename [   ]

Department [   ]

[Add]   [Edit]   [Delete]

[   ]   [Search]

	Id	Ename	Dept
Select	1	raj	cs
Select	2	avi	cs
Select	3	siddhu	entc

Insert

EId [4   ]
Ename [sujal   ]

Department [entc   ]

[Add]   [Edit]   [Delete]

[   ]   [Search]

	Id	Ename	Dept
Select	1	raj	cs
Select	2	avi	cs
Select	3	siddhu	entc
Select	4	sujal	entc

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

Update

EId   [4]

Ename   [satej]

Department   [entc]

[Add]   [Edit]   [Delete]

[   ]   [Search]

	Id	Ename	Dept
Select	1	raj	cs
Select	2	avi	cs
Select	3	siddhu	entc
Select	4	satej	entc

Delete

EId   [4]

Ename   [   ]

Department   [   ]

[Add]   [Edit]   [Delete]

[   ]   [Search]

	Id	Ename	Dept
Select	1	raj	cs
Select	2	avi	cs
Select	3	siddhu	entc

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

Search

EId [   ]
Ename [   ]

Department [   ]

[Add]   [Edit]   [Delete]

[1   ]   [Search]

	Id	Ename	Dept
Select	1	raj	cs

9. Design a web page to perform CRUD operation using SqlDataSource

```
<%@ flage Language="C#" AutoEventWireup="true" CodeBehind="flrogram14.aspx.cs"
Inherits="AWT_Lab_A55.flrogram14" %>

<!DOCTYflE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
        </div>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
        <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
        <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
        <p>
            <asp:Button ID="Button1" runat="server" Text="Add"
OnClick="Button1_Click" />
        </p>
        <p>
            <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False" AutoGenerateDeleteButton="True"
AutoGenerateEditButton="True" AutoGenerateSelectButton="True" BackColor="#CCCCCC"
BorderColor="#999999" BorderStyle="Solid" BorderWidth="3px" Cellfladding="4"
CellSpacing="2" DataKeyNames="Id" DataSourceID="SqlDataSource1"
ForeColor="Black">
                <Columns>
                    <asp:BoundField DataField="Id" HeaderText="Id"
ReadOnly="True" SortExpression="Id" />
                    <asp:BoundField DataField="Name" HeaderText="Name"
SortExpression="Name" />
                    <asp:BoundField DataField="Age" HeaderText="Age"
SortExpression="Age" />
                    <asp:BoundField DataField="Address" HeaderText="Address"
SortExpression="Address" />
                </Columns>
                <FooterStyle BackColor="#CCCCCC" />
                <HeaderStyle BackColor="Black" Font-Bold="True" ForeColor="White"
/>
                <flagerStyle BackColor="#CCCCCC" ForeColor="Black"
HorizontalAlign="Left" />
                <RowStyle BackColor="White" />
                <SelectedRowStyle BackColor="#000099" Font-Bold="True"
ForeColor="White" />
                <SortedAscendingCellStyle BackColor="#F1F1F1" />
                <SortedAscendingHeaderStyle BackColor="Gray" />
                <SortedDescendingCellStyle BackColor="#CAC9C9" />
                <SortedDescendingHeaderStyle BackColor="#383838" />
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:StudentConnectionString %>"
DeleteCommand="DELETE FROM [MCA] WHERE [Id] = @Id" InsertCommand="INSERT INTO
[MCA] ([Id], [Name], [Age], [Address]) VALUES (@Id, @Name, @Age, @Address)"
SelectCommand="SELECT * FROM [MCA]" UpdateCommand="UflDATE [MCA] SET [Name] =
@Name, [Age] = @Age, [Address] = @Address WHERE [Id] = @Id">
```

```
            <Deleteflarameters>
                <asp:flarameter Name="Id" Type="Int32" />
            </Deleteflarameters>
            <Insertflarameters>
                <asp:Controlflarameter Name="Id" Type="Int32"
 ControlId="TextBox1"/>
                <asp:Controlflarameter Name="Name" Type="String"
ControlId="TextBox2"/>
                <asp:Controlflarameter Name="Age" Type="Int32"
ControlId="TextBox3"/>
                <asp:Controlflarameter Name="Address" Type="String"
ControlId="TextBox4"/>
            </Insertflarameters>
            <Updateflarameters>
                <asp:flarameter Name="Name" Type="String" />
                <asp:flarameter Name="Age" Type="Int32" />
                <asp:flarameter Name="Address" Type="String" />
                <asp:flarameter Name="Id" Type="Int32" />
            </Updateflarameters>
        </asp:SqlDataSource>
    </p>
    </form>
</body>
</html>
```

| 4 | aara | 22 | thane |

Add

	Id	Name	Age	Address
Edit Delete Select	1	Ashish	21	titwala
Edit Delete Select	2	Rahul	22	Nerul
Edit Delete Select	3	aaradh	21	thane
Edit Delete Select	4	aara	22	thane

Name: Rajvardhan Ganpatrao Patil
Roll No: 40   Div: A

| 4 | aara | 22 | thane |

Add

	Id	Name	Age	Address
Update Cancel	1	Ashish singh	21	titwala
Edit Delete Select	2	Rahul	22	Nerul
Edit Delete Select	3	aaradh	21	thane
Edit Delete Select	4	aara	22	thane

| 4 | aara | 22 | thane |

Add

	Id	Name	Age	Address
Edit Delete Select	1	Ashish	21	titwala
Edit Delete Select	**3**	**aaradh**	**21**	**thane**
Edit Delete Select	4	aara	22	thane