

WebForm1.aspx

WebForm1.aspx.cs

namespace Q1

```
namespace MyApp
{
    public partial class WebForm1 : System.Web.UI.Page
    {
```

```

DataSet ds = new DataSet();
protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack)
    {
        SqlConnection con = new SqlConnection();
        con.ConnectionString = @"Data Source=(localdb)\mssqllocaldb;Initial
Catalog=HouseKeeping1;Integrated Security=True;Pooling=False";
        try
        {
            con.Open();
            SqlCommand command = new SqlCommand("SELECT DISTINCT StaffID FROM
Staff", con);

            SqlDataReader reader;
            reader = command.ExecuteReader();
            while (reader.Read())
            {
                DropDownList1.Items.Add(reader["StaffID"].ToString());
            }
        }
        catch (Exception ex)
        {
        }
        finally
        {
            con.Close();
        }
    }
}

protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
{
    SqlConnection con = new SqlConnection();
    con.ConnectionString = @"Data Source=(localdb)\mssqllocaldb;Initial
Catalog=HouseKeeping1;Integrated Security=True;Pooling=False";
    try
    {
        con.Open();
        SqlCommand comm = new SqlCommand("SELECT Firstname, Lastname, DNo,
Street, City, State, ZipCode FROM Staff WHERE StaffID=@0", con);

        comm.Parameters.AddWithValue("@0", DropDownList1.SelectedItem.Text);

        SqlDataAdapter adapter = new SqlDataAdapter(comm);
        adapter.Fill(ds, "Staff1");
        Label1.Text = "First Name: " +
ds.Tables["Staff1"].Rows[0]["Firstname"].ToString() + "<br>Last Name: " +
ds.Tables["Staff1"].Rows[0]["Lastname"].ToString() + "<br>DNo: " +
ds.Tables["Staff1"].Rows[0]["DNo"].ToString() + "<br>Street: " +
ds.Tables["Staff1"].Rows[0]["Street"].ToString() + "<br>City: " +
ds.Tables["Staff1"].Rows[0]["City"].ToString() + "<br>State: " +
ds.Tables["Staff1"].Rows[0]["State"].ToString() + "<br>ZipCode: " +
ds.Tables["Staff1"].Rows[0]["ZipCode"];
    }
    catch (Exception ex)
    {
    }
    finally
    {
        con.Close();
    }
}

```

```

    }
}

protected void Button1_Click(object sender, EventArgs e)
{
    SqlConnection con = new SqlConnection();
    con.ConnectionString = @"Data Source=(localdb)\mssqllocaldb;Initial
Catalog=HouseKeeping1;Integrated Security=True;Pooling=False";

    try
    {
        con.Open();
        SqlCommand com = new SqlCommand("UPDATE Staff SET City = '" +
ListBox1.SelectedValue + "' where StaffID = " + DropDownList1.SelectedValue, con);
        com.ExecuteNonQuery();

        SqlCommand com2 = new SqlCommand("SELECT * from Staff where StaffID="
+ DropDownList1.SelectedValue, con);
        SqlDataAdapter adapter = new SqlDataAdapter(com2);

        adapter.Fill(ds, "Staff2");
        Label1.Text = "First Name: " +
ds.Tables["Staff2"].Rows[0]["Firstname"].ToString() + "<br>Last Name: " +
ds.Tables["Staff2"].Rows[0]["Lastname"].ToString() + "<br>DNo: " +
ds.Tables["Staff2"].Rows[0]["DNo"].ToString() + "<br>Street: " +
ds.Tables["Staff2"].Rows[0]["Street"].ToString() + "<br>City: " +
ds.Tables["Staff2"].Rows[0]["City"].ToString() + "<br>State: " +
ds.Tables["Staff2"].Rows[0]["State"].ToString() + "<br>ZipCode: " +
ds.Tables["Staff2"].Rows[0]["ZipCode"];
    }
    catch (Exception ex)
    {
    }
    finally
    {
        con.Close();
    }
}
}
}

```

https://localhost:44365/WebForm1.aspx

localhost:44365/WebForm1.aspx

Select the Staff ID

1

First Name: Abc
Last Name: Xyz
DNo: 120
Street: qwerty street
City: Mysore
State: MZ
ZipCode: 909101

Manipal
Bangalore
Chennai
Hyderabad
Kochi
Mysore

Update

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Select the Staff ID

1 ▾

First Name: Abc
 Last Name: Xyz
 DNo: 120
 Street: qwerty street
 City: Manipal
 State: MZ
 ZipCode: 909101

Manipal
 Bangalore
 Chennai
 Hyderabad
 Kochi
 Mysore

Update

WebForm1.aspx | dbo.Staff [Data] | WebForm1.aspx.cs | dbo.Staff [Design] | Q1

Max Rows: 1000

	StaffID	FirstName	LastName	DNo	Street	City	State	ZipCode
1	1	Abc	Xyz	120	qwerty street	Manipal	MZ	909101
2	2	ASD	Fgs	102	Mer Steer	Chennai	MH	129811
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Q2:

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Q2.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```

<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Choose the genre: <asp:DropDownList ID="DropDownList1" runat="server"
OnSelectedIndexChanged="Change" AutoPostBack="true"></asp:DropDownList>
            <br />
            <br />
            <asp:ListBox ID="ListBox1" runat="server" OnSelectedIndexChanged="Change2"
AutoPostBack="true"></asp:ListBox><br />
            <br />
            <br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
        </div>
    </form>
</body>
</html>

```

WebForm1.aspx.cs

```

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

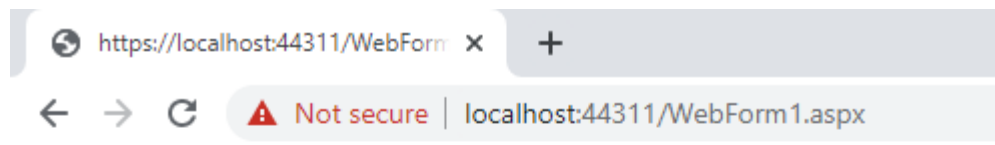
namespace Q2
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                Dictionary<int, string> dict = new Dictionary<int, string>();
                dict.Add(0, null);
                dict.Add(1, "comedy");
                dict.Add(2, "romance");
                dict.Add(3, "animated");
                DropDownList1.DataTextField = "Value";
                DropDownList1.DataValueField = "Key";
                DropDownList1.DataSource = dict;
                DropDownList1.DataBind();
            }
        }
        protected void Change(object sender, EventArgs e)
        {
            ListBox1.Items.Clear();
            SqlConnection con = new SqlConnection();
            con.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=Test1;Integrated Security=True;Pooling=False";
            try
            {
                con.Open();
            }
        }
    }
}

```

```

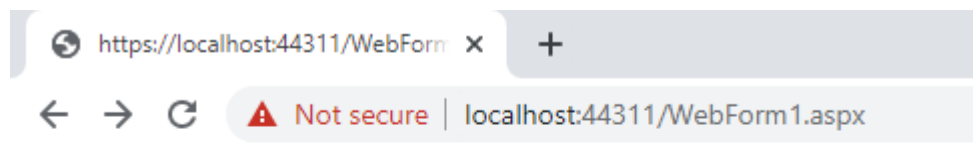
        SqlCommand com = new SqlCommand("Select name from Legends where
category='" + DropDownList1.SelectedItem.Text + "'", con);
        SqlDataReader reader = com.ExecuteReader();
        while (reader.Read())
        {
            ListBox1.Items.Add(reader["name"].ToString());
        }
    }
    catch (Exception ex)
    {
        Label1.Text = ex.ToString();
    }
    finally
    {
        con.Close();
    }
}
protected void Change2(object sender, EventArgs e)
{
    Label1.Text = "";
    SqlConnection con = new SqlConnection();
    con.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=Test1;Integrated Security=True;Pooling=False";
    try
    {
        con.Open();
        SqlCommand command = new SqlCommand("Select name, age from Legends
where category='" + DropDownList1.SelectedItem.Text + "' and name=@1", con);
        command.Parameters.AddWithValue("@1", ListBox1.SelectedValue);
        SqlDataReader reader = command.ExecuteReader();
        while (reader.Read())
        {
            Label1.Text += "Name: " + reader["name"].ToString() + "<br>Age: "
+ reader["age"] + "\n";
        }
    }
    catch (Exception ex)
    {
        Label1.Text = ex.ToString();
    }
    finally
    {
        con.Close();
    }
}
}
}
}

```

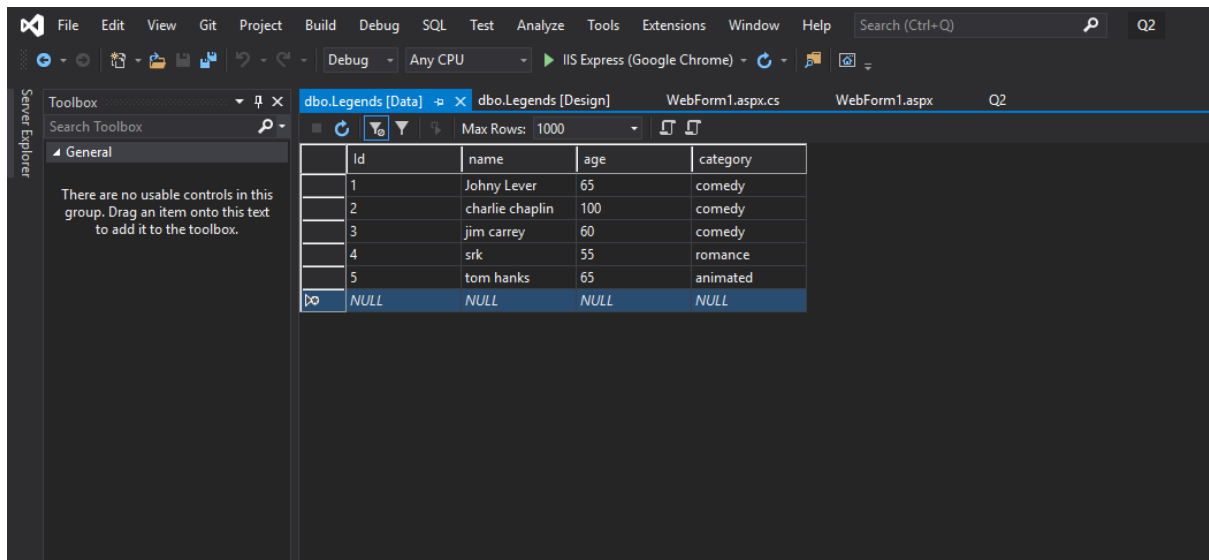


Choose the genre:

Name: tom hanks
Age: 65



Choose the genre:



Q3:

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Q3.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            New price of Vanilla: <asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox><br />
            <asp:Button ID="Button1" runat="server" Text="Change" OnClick="Change"
AutoPostBack = "True"/><br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
        </div>
    </form>
</body>
</html>
```

WebForm1.aspx.cs

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

namespace Q3
```

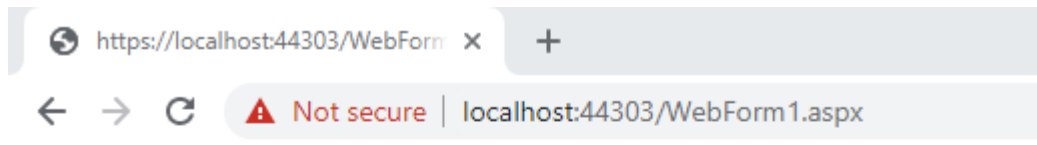
```

{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

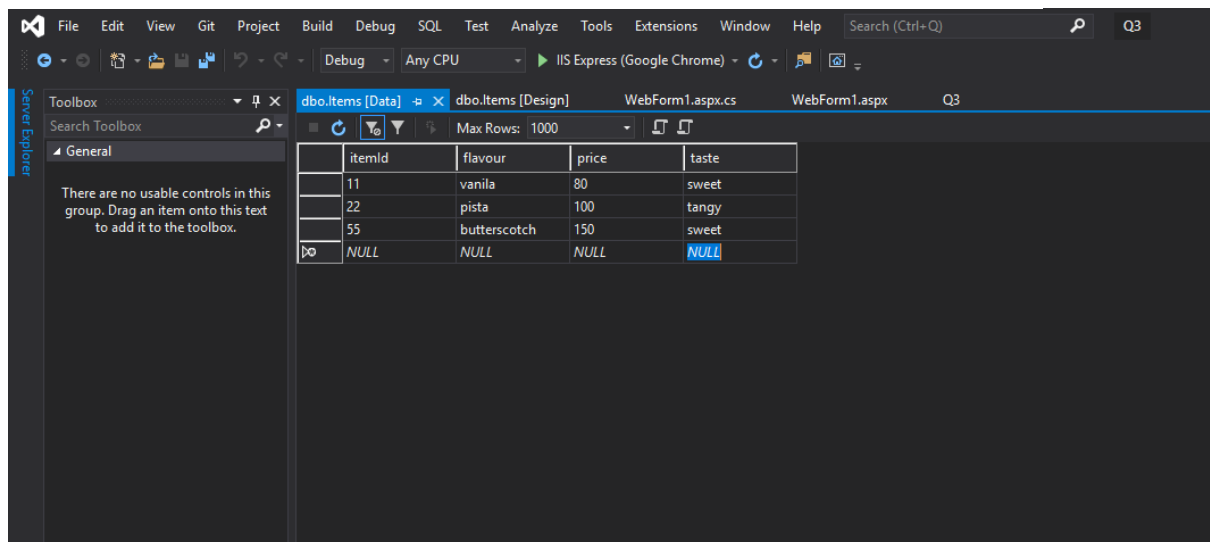
        protected void Change(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection();
            con.ConnectionString = @"Data Source=(localdb)\mssqllocaldb;Initial
Catalog=Products1;Integrated Security=True;Pooling=False";
            try
            {
                con.Open();
                SqlCommand com = new SqlCommand("update Items set price=@price where
flavour=@flavour", con);
                com.Parameters.AddWithValue("@price", TextBox1.Text);
                com.Parameters.AddWithValue("@flavour", "vanila");
                com.ExecuteNonQuery();
                SqlCommand com2 = new SqlCommand("select price from Items where
flavour=@flavour", con);
                com2.Parameters.AddWithValue("@flavour", "vanila");
                SqlDataReader reader = com2.ExecuteReader();
                while (reader.Read())
                {
                    Label1.Text = "The new price for vanila is " + reader["price"];
                }
            }
            catch (Exception ex)
            {
                Label1.Text = ex.ToString();
            }
            finally
            {
                con.Close();
            }
        }
    }
}

```



New price of Vanilla:

The new price for vanilla is 100



Q4:

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Q4.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<div>
```

```
<asp:RadioButtonList ID="RadioButtonList1" runat="server"
```

```
OnSelectedIndexChanged="Enable" AutoPostBack="true">
```

```
<asp:ListItem Text="Insert into Works DB" Value="1" />
```

```
<asp:ListItem Text="Retrieve Data" Value="2"/>
```



```

        com.Parameters.AddWithValue("@name", TextBox1.Text);
        com.Parameters.AddWithValue("@comp", TextBox2.Text);
        com.Parameters.AddWithValue("@salary", TextBox3.Text);
        com.ExecuteNonQuery();
        Label1.Text = "Data added";
    }
    catch (Exception ex)
    {
        Label1.Text = ex.ToString();
    }
    finally
    {
        con.Close();
    }
}
else if (RadioButtonList1.SelectedValue == "2")
{
    SqlConnection con = new SqlConnection();
    con.ConnectionString = @"Data Source=(localdb)\mssqllocaldb;Initial
Catalog=Employee;Integrated Security=True;Pooling=False";
    try
    {
        con.Open();
        SqlCommand com = new SqlCommand("Select WORKS.person_name,
LIVES.city from WORKS INNER JOIN LIVES ON WORKS.person_name = LIVES.person_name where
company_name=@comp", con);

        com.Parameters.AddWithValue("@comp", TextBox4.Text);
        SqlDataReader reader = com.ExecuteReader();
        Label1.Text = "The names and cities of people working in " +
        TextBox4.Text;

        while (reader.Read())
        {
            Label1.Text += "<br>Name: " + reader["person_name"] + "
City: " + reader["city"];
        }
    }
    catch (Exception ex)
    {
        Label1.Text = ex.ToString();
    }
    finally
    {
        con.Close();
    }
}
}
protected void Enable(object sender, EventArgs e)
{
    Panel1.Enabled = Panel2.Enabled = false;
    if (RadioButtonList1.SelectedValue == "1") {
        Panel1.Enabled = true;
    }
    else{
        Panel2.Enabled = true;
    }
}
}
}
}

```

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☒ Insert into Works DB
☐ Retrieve Data

Person Name: Company Name: Salary:

Company Name:

Data added

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← → ↻ ⚠ Not secure | localhost:44366/WebForm1.aspx

☐ Insert into Works DB
☒ Retrieve Data

Person Name: Company Name: Salary:

Company Name:

The names and cities of people working in lime1.inc
Name: Rajiv City: town

File Edit View Git Project Build Debug SQL Test Analyze Tools Extensions Window Help Search (Ctrl+Q) Q4

Debug Any CPU IIS Express (Google Chrome)

Server Explorer

Toolbox

Search Toolbox

General

There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.

dbo.LIVES [Data] WebForm1.aspx.cs WebForm1.aspx Q4

Max Rows: 1000

	person_name	street	city
▶	Raj	qwerty street	newtown
	Rajeev	qaz street	oldtown
	Rajiv	zxc street	town
⊕	NULL	NULL	NULL

Visual Studio interface showing a data table in the **Server Explorer** pane. The table is titled **dbo.LIVES [Data]** and displays data from **dbo.WORKS [Data]**. The table has columns: **person_name**, **company_name**, and **salary**. The data is as follows:

person_name	company_name	salary
Raj	lime.inc	100000
Rajeev	lime.inc	150000
Rajeev1	asc	1000000
Rajiv	lime1.inc	200000
NULL	NULL	NULL

The **Server Explorer** pane on the left shows the **General** tab with the message: "There are no usable controls in this group. Drag an item onto this text to add it to the toolbox."