Q1:

Staff.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Staff.aspx.cs"
Inherits="Q1.Staff" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:SqlDataSource ID = "staff" runat = "server" ConnectionString = " <%$
connectionStrings:Staff %> " SelectCommand = "SELECT * FROM Staff" />
            <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns ="False"
DataSourceID = "staff" AllowSorting = "True">
                <Columns>
                    <asp:TemplateField HeaderText = "Staff Detail" SortExpression =
"Name">
                        <ItemTemplate>
                            <b > Name: </b>
                            <%# Eval("Name") %> <br />
                            <b > Age:</b>
                            <%# Eval("Age") %> <br />
                        </ItemTemplate>
                    </asp:TemplateField>
                    <asp:BoundField DataField = "Designation" HeaderText =
"Designation" />
                    <asp:BoundField DataField = "Salary" HeaderText = "Salary" />
                </Columns>
            </asp:GridView>
        </div>
    </form>
</body>
</html>
```
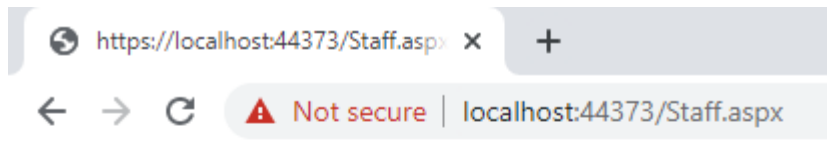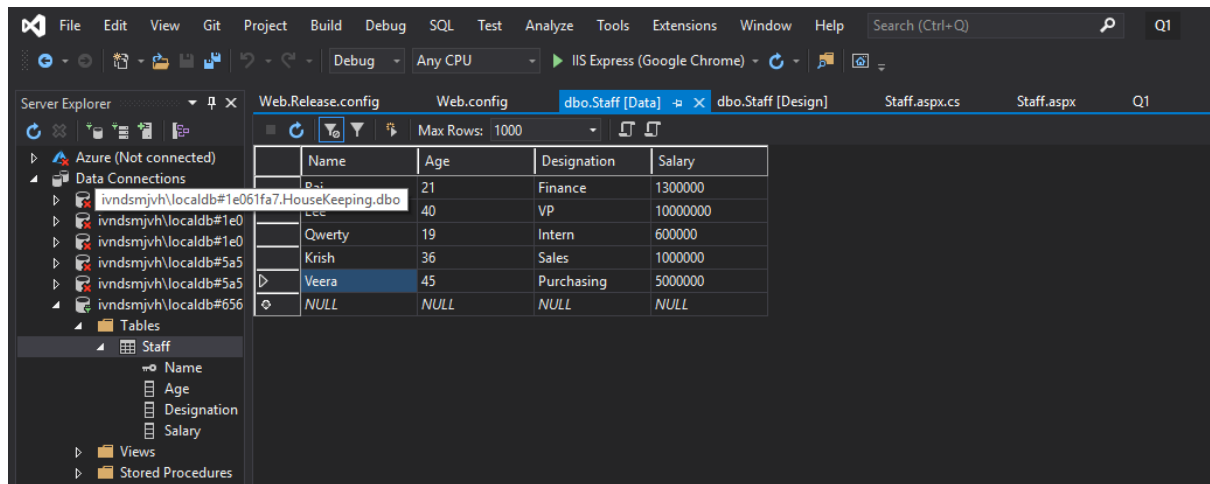
Staff Detail table (browser screenshot):

Staff Detail	Designation	Salary
Name: Krish Age: 36	Sales	1000000
Name: Lee Age: 40	VP	10000000
Name: Qwerty Age: 19	Intern	600000
Name: Raj Age: 21	Finance	1300000
Name: Veera Age: 45	Purchasing	5000000

Visual Studio Server Explorer / dbo.Staff [Data]:

Name	Age	Designation	Salary
Raj	21	Finance	1300000
Lee	40	VP	10000000
Qwerty	19	Intern	600000
Krish	36	Sales	1000000
Veera	45	Purchasing	5000000
NULL	NULL	NULL	NULL

Q2:

Authors.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
```
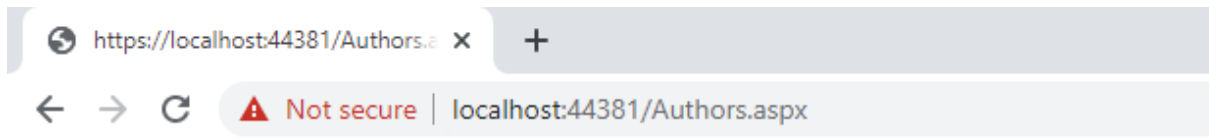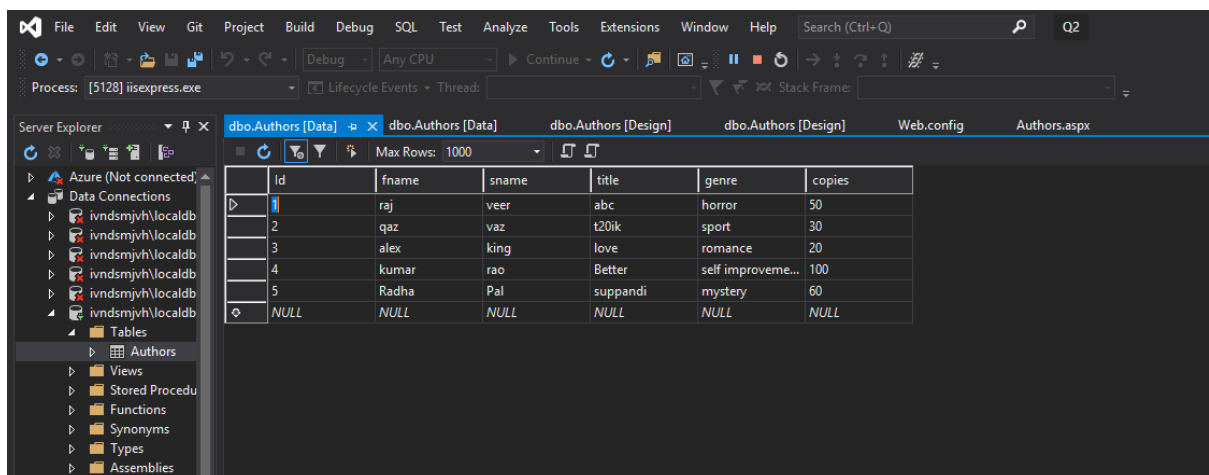
```asp
<form id="form1" runat="server">
    <div>
        <asp:SqlDataSource ID="auth" runat="server" ConnectionString="Data
Source=(localdb)\MSSQLLocalDB;Initial Catalog=Author;Integrated Security=SSPI"
SelectCommand="SELECT * FROM Authors" UpdateCommand="UPDATE Authors SET
copies=@copies,fname=@fname WHERE Id=@Id"/>
        <asp:GridView ID = "GridView1" runat = "server" DataSourceID = "auth"
AutoGenerateColumns ="False" AllowPaging="true" PageSize="3" DataKeyNames="Id">
            <HeaderStyle BackColor="Green" ForeColor="Red" Font-Bold="true"/>
            <Columns>
                <asp:CommandField ShowEditButton="true"/>
                <asp:BoundField DataField ="Id" HeaderText ="Id"
ReadOnly="true"/>
                <asp:TemplateField HeaderText = "Status">
                    <ItemTemplate>
                    <b > First Name:</b>
                    <%# Eval("fname") %> <br/>
                    <b > Last Name:</b>
                    <%# Eval("sname") %> <br/>
                    </ItemTemplate>
                    <EditItemTemplate>
                        <b>First Name:</b>
                        <asp:TextBox runat="server" ID="TextBox1" Text='<%#
Bind("fname") %>'></asp:TextBox>
                        <br />
                        <b>Last Name:</b>
                        <%# Eval("last_name") %>
                    </EditItemTemplate>
                </asp:TemplateField>
                <asp:BoundField DataField = "title" HeaderText = "Book Title"
ReadOnly="true"/>
                <asp:BoundField DataField = "genre" HeaderText = "Genre"
ReadOnly="true" />
                <asp:BoundField DataField = "copies" HeaderText = "Copies Sold" />
            </Columns>
        </asp:GridView>
    </div>

    </form>
</body>
</html>
```

	Id	Status	Book Title	Genre	Copies Sold
Edit	1	First Name: raj Last Name: veer	abc	horror	50
Edit	2	First Name: qaz Last Name: vaz	t20ik	sport	30
Edit	3	First Name: alex Last Name: king	love	romance	20
1 2					

Q3:

Default.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.Xml;
using System.IO;
```

```csharp
using System.Xml.Linq;

namespace Q3
{
    public partial class Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            string file = Path.Combine(Request.PhysicalApplicationPath,
@"App_Data\Cars.xml");
            XElement ele1 = new XElement("Detail",
                new XElement("Name", "I20"),
                new XElement("Make", "Hyundai"),
                new XElement("Price", "70000")
            );

            XElement ele2 = new XElement("Detail",
                new XElement("Name", "I20"),
                new XElement("Make", "Hyundai"),
                new XElement("Price", "70000")
            );

            XElement ele = new XElement("Car",
                from el in ele1.Elements()
                select el
            );

            ele.Add(ele2);

            XDocument doc = new XDocument(ele);

            doc.Save(file);
        }
    }
}
```

Additional 1:

Defualt.aspx

```aspx
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div style="height: 319px">
            <asp:GridView ID="GridView1" runat="server" DataSourceID="SqlDataSource1"
AutoGenerateColumns="false" AllowSorting="true" DataKeyNames="id">
                <Columns>
                    <asp:BoundField DataField="id" HeaderText="Id" ReadOnly="true"
SortExpression="id"/>
                    <asp:TemplateField HeaderText="Name" SortExpression="name">
                    <ItemTemplate>
                        <b>Name:</b>
                        <%# Eval("name") %>
```

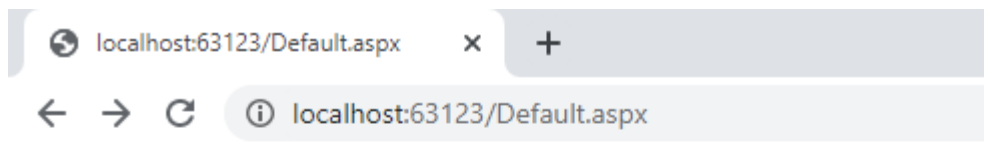```
                    </ItemTemplate>
                    <EditItemTemplate>
                        Name:
                        <asp:TextBox ID="TextBox2" runat="server" Text='<%#
Bind("name") %>'></asp:TextBox>
                        <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
runat="server" ErrorMessage="Name is required" EnableClientScript="false"
ControlToValidate="TextBox2"></asp:RequiredFieldValidator>
                    </EditItemTemplate>
                    </asp:TemplateField>

                    <asp:TemplateField HeaderText="Details">
                    <ItemTemplate>
                        Price:
                        <%# Eval("price") %>

                        Quantity:
                        <%# Eval("quantity") %>
                    </ItemTemplate>
                    <EditItemTemplate>
                        Price:
                        <%# Eval("price") %>

                        Quantity
                        <asp:TextBox ID="TextBox1" runat="server" Text='<%#
Bind("quantity") %>'></asp:TextBox>
                        <asp:RangeValidator ID="RangeValidator1" runat="server"
ErrorMessage="Quantity should be between 1 and 20" ControlToValidate="TextBox1"
EnableClientScript="false" Type="Integer" MinimumValue="1"
MaximumValue="20"></asp:RangeValidator>
                    </EditItemTemplate>
                    </asp:TemplateField>
                    <asp:CommandField ShowEditButton="true"/>
                </Columns>
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=Test3;Integrated
Security=SSPI" SelectCommand="SELECT * FROM Product" UpdateCommand="UPDATE Product SET
quantity=@quantity,name=@name WHERE id=@id"></asp:SqlDataSource>
        </div>
    </form>
</body>
</html>
```
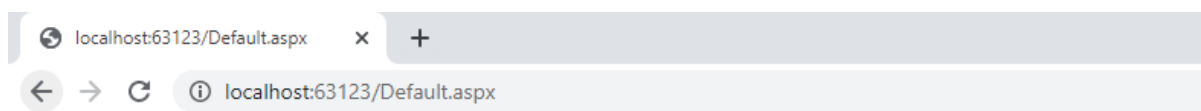
| Id | Name | Details | |
|----|------|---------|---|
| 1 | **Name:** Soap | **Price:** 50<br><br>**Quantity:** 2 | Edit |

| Id | Name | Details | |
|----|------|---------|---|
| 1 | **Name:** Soap | **Price:** 50<br><br>**Quantity** 3 | Update Cancel |

| | Id | name | price | quantity |
|---|----|----|----|----|
| ▷ | 1 | Soap | 50 | 3 |
| ◇ | *NULL* | *NULL* | *NULL* | *NULL* |