

1. Develop a website with a GridView which displays the details of 'Staff' table. The Name and Age fields should be in a single cell under the column heading Staff details. This Staff details column should provide Name wise sorting. The rows that contain the age more than 35 should be highlighted. Add at least five rows to the Staff table which has the fields as follows: Name, Age, Designation, and Salary

Staff Table Schema and Data:

	Name	Data Type	Name	Age	Designation	Salary
	Name	varchar(50)	[Staff5]	25	Teaching Assist...	400000.0000
	Age	int	[Staff2]	33	Teacher	900000.0000
	Designation	varchar(50)	[Staff1]	50	Professor	1500000.0000
	Salary	money	[Staff4]	45	Asst Professor	1200000.0000
			[Staff3]	35	Lab Technician	1000000.0000

Code:

WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="q1.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Staff</title>
</head>
<body style="background-color: rgba(204, 229, 251, 0.65); text-align: center">
    <form id="form1" runat="server">
        <div>
            <h2 style="font-family: Bahnschrift">Details of Staff</h2>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%"$
ConnectionStrings:Staff_170905004ConnectionString %>" SelectCommand="SELECT * FROM
[Staff]"></asp:SqlDataSource>
            <br />
            <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="Name" DataSourceID="SqlDataSource1" OnRowDataBound="RowDataBound" CellPadding="4"
ForeColor="#333333" GridLines="None" HorizontalAlign="Center" style="margin: auto" HeaderStyle-
Height="50px">
                <AlternatingRowStyle BackColor="White" ForeColor="#284775" />
                <Columns>
                    <asp:TemplateField HeaderText="Staff Details" SortExpression="Name">
                        <ItemTemplate>
                            <b>Name: </b>
                            <%#Eval("Name") %><br />
                            <b>Age: </b>
                            <%#Eval("Age") %>
                        </ItemTemplate>
                    </asp:TemplateField>
                    <asp:BoundField DataField="Designation" HeaderText="Designation"
SortExpression="Designation" />
                    <asp:BoundField DataField="Salary" HeaderText="Salary" SortExpression="Salary"
/ >
                </Columns>
                <EditRowStyle BackColor="#999999" />
                <FooterStyle BackColor="#5D7B9D" Font-Bold="True" ForeColor="White" />
                <HeaderStyle BackColor="#5D7B9D" Font-Bold="True" ForeColor="White" />
                <PagerStyle BackColor="#284775" ForeColor="White" HorizontalAlign="Center" />
                <RowStyle BackColor="#F7F6F3" ForeColor="#333333" />
                <SelectedRowStyle BackColor="#E2DED6" Font-Bold="True" ForeColor="#333333" />
                <SortedAscendingCellStyle BackColor="#E9E7E2" />
                <SortedAscendingHeaderStyle BackColor="#506C8C" />
                <SortedDescendingCellStyle BackColor="#FFFDF8" />
                <SortedDescendingHeaderStyle BackColor="#6F8DAE" />
            </asp:GridView>
        </div>
    </form>
</body>
</html>
```

```

        </asp:GridView>
    </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;

namespace q1
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void RowDataBound(object sender, GridViewRowEventArgs e)
        {
            if(e.Row.RowType == DataControlRowType.DataRow)
            {
                int age = (int)DataBinder.Eval(e.Row.DataItem, "Age");
                if(age > 35)
                {
                    e.Row.BackColor = System.Drawing.Color.LightGray ;
                    e.Row.ForeColor = System.Drawing.Color.DarkSlateGray;
                    e.Row.Font.Bold = true;
                }
            }
        }
    }
}

```

### Output:

Details of Staff

Staff Details	Designation	Salary
Name: [Staff1] Age: 50	Professor	1500000.0000
Name: [Staff2] Age: 33	Teacher	900000.0000
Name: [Staff3] Age: 35	Lab Technician	1000000.0000
Name: [Staff4] Age: 45	Asst Professor	1200000.0000
Name: [Staff5] Age: 25	Teaching Assistant	400000.0000

2. Develop a web page that retrieves author details from the table 'Authors' and displays it in a GridView. The maximum records in each page can be 3. Change background color to 'green' and text color to 'red' with bold font for the header. Use data source control to fetch data. Give provisions to edit the values of FirstName and CopiesSold.

Authors table schema and data:

Name	Data Type
Id	int
FirstName	varchar(50)
LastName	varchar(50)
Book Title	varchar(50)
Genre	varchar(50)
CopiesSold	int

Id	FirstName	LastName	Book Title	Genre	CopiesSold
1	Jeffrey	Archer	Shall We Tell Th...	Thriller	100000
2	Douglas	Adams	The Hitchhikers...	Fantasy	100000
3	Sidney	Sheldon	Tell Me Your Dr...	Thriller	100000
4	Enid	Blyton	The Famous Five	Kids	100000

Code:

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>Authors</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h2 style="font-family: Bahnschrift">Authors</h2>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%=
ConnectionStrings:Author_170905004ConnectionString %>" SelectCommand="SELECT * FROM [Authors]"
UpdateCommand="UPDATE Authors SET FirstName=@FirstName, CopiesSold=@CopiesSold WHERE
Id=@Id"></asp:SqlDataSource>
            <br />
            <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="Id" DataSourceID="SqlDataSource1" AllowPaging="True" PageSize="3"
HorizontalAlign="Center">
                <HeaderStyle BackColor="Green" ForeColor="Red" Font-Bold="true" />
                <Columns>
                    <asp:CommandField ShowEditButton="True" ItemStyle-HorizontalAlign="Center" />
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" ItemStyle-HorizontalAlign="Center"/>
                    <asp:TemplateField HeaderText="Name" ItemStyle-HorizontalAlign="Center">
                        <ItemTemplate>
                            <b>First Name: </b>
                            <%=#Eval("FirstName") %>
                            <br />
                            <b>Last Name: </b>
                            <%=#Eval("LastName") %>
                        </ItemTemplate>
                        <EditItemTemplate>
                            <b>First Name: </b>
                            <asp:TextBox Text='<%=#Bind("FirstName")%>' runat="server"
ID="txtFirstName"></asp:TextBox>
                            <br />
                            <b>Last Name: </b>
                            <%=#Eval("LastName") %>
                        </EditItemTemplate>
                    </asp:TemplateField>
                    <asp:BoundField DataField="Book Title" HeaderText="Book Title"
SortExpression="Book Title" ReadOnly="true" ItemStyle-HorizontalAlign="Center" />
                </Columns>
            </asp:GridView>
        </div>
    </form>
</body>
</html>
```

```

                <asp:BoundField DataField="CopiesSold" HeaderText="CopiesSold"
SortExpression="CopiesSold" ItemStyle-HorizontalAlign="Center" />
            </Columns>
        </asp:GridView>
    </div>
</form>
</body>
</html>

```

Output:

Authors

	Id	Name	Book Title	CopiesSold
<a href="#">Edit</a>	1	First Name: Jeffrey Last Name: Archer	Shall We Tell The President	200000
<a href="#">Edit</a>	2	First Name: Douglas Last Name: Adams	The Hitchhikers Guide to the Galaxy	100000
<a href="#">Edit</a>	3	First Name: Sidney Last Name: Sheldon	Tell Me Your Dreams	100000
1 2				

a) Before Editing

Authors

	Id	Name	Book Title	CopiesSold
<a href="#">Update</a> <a href="#">Cancel</a>	1	First Name: <input type="text" value="Jeffrey"/> Last Name: Archer	Shall We Tell The President	<input type="text" value="100000"/>
<a href="#">Edit</a>	2	First Name: Douglas Last Name: Adams	The Hitchhikers Guide to the Galaxy	100000
<a href="#">Edit</a>	3	First Name: Sidney Last Name: Sheldon	Tell Me Your Dreams	100000
1 2				

b) Editing

Authors

	Id	Name	Book Title	CopiesSold
<a href="#">Edit</a>	1	First Name: Jeffrey Last Name: Archer	Shall We Tell The President	100000
<a href="#">Edit</a>	2	First Name: Douglas Last Name: Adams	The Hitchhikers Guide to the Galaxy	100000
<a href="#">Edit</a>	3	First Name: Sidney Last Name: Sheldon	Tell Me Your Dreams	100000
1 2				

c) After Editing

3. Create an xml file using XDocument class. The file should contain the following elements. I20Hyundai700000  
I20Hyundai 700000

Code:

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>XML Creation</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h3>Creating an XML files on Cars.</h3>
            <br />
            File Name: Cars.xml
        </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.Xml.Linq;
using System.IO;

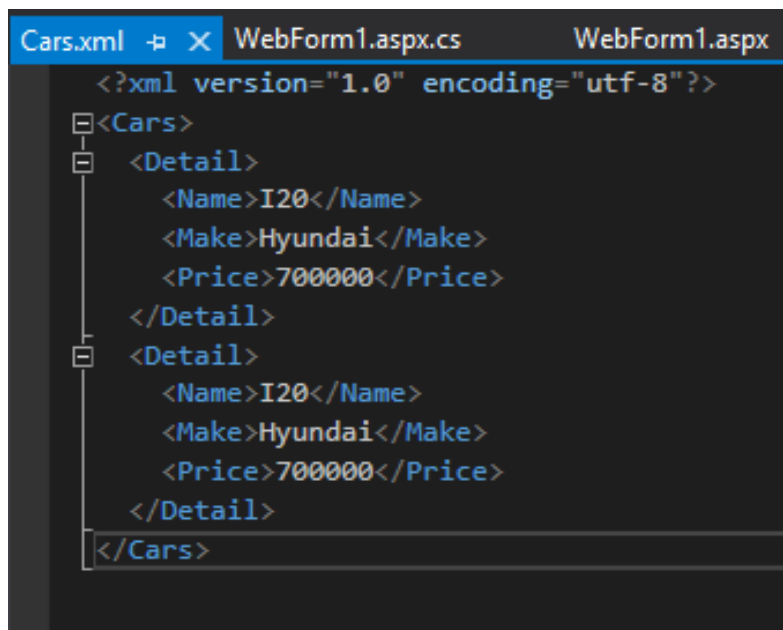
namespace q3
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            string file = Path.Combine(Request.PhysicalApplicationPath, @"App_Data\Cars.xml");

            XDocument doc = new XDocument(
                new XElement("Cars",
                    new XElement("Detail",
                        new XElement("Name", "I20"),
                        new XElement("Make", "Hyundai"),
                        new XElement("Price", "700000")
                    ),
                    new XElement("Detail",
                        new XElement("Name", "I20"),
                        new XElement("Make", "Hyundai"),
                        new XElement("Price", "700000")
                    )
                )
            );

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

### Output:

#### Cars.xml file:



The screenshot shows a code editor with three tabs: 'Cars.xml', 'WebForm1.aspx.cs', and 'WebForm1.aspx'. The 'Cars.xml' tab is active, displaying the following XML content:

```
<?xml version="1.0" encoding="utf-8"?>
<Cars>
  <Detail>
    <Name>I20</Name>
    <Make>Hyundai</Make>
    <Price>700000</Price>
  </Detail>
  <Detail>
    <Name>I20</Name>
    <Make>Hyundai</Make>
    <Price>700000</Price>
  </Detail>
</Cars>
```

**Additional1. Develop a website to display the contents of 'Product' table (id, name, price, quantity) using GridView. The user should be allowed to edit the name and quantity fields only. Use appropriate validation controls to ensure that the name field is not blank and the quantity is between 1 and 20. Enable sorting of GridView based on 'id' and 'name' columns. Sample GridView is shown below:**

	Name	Data Type
Id		int
Name		varchar(50)
Price		money
Quantity		int

	Id	Name	Price	Quantity
	1	Soap	50.0000	2
	2	Pens	10.0000	10
	3	Sanitizer	30.0000	50

### WebForm1.aspx:

```

Quantity:
<asp:TextBox ID="TextBox1" runat="server" Text='<%#Bind("Quantity")
%>'></asp:TextBox>
<asp:RangeValidator ID="RangeValidator1" runat="server"
ErrorMessage="Quantity has to be in the range of 1-20" ControlToValidate="TextBox1"
MinimumValue="01" MaximumValue="20"></asp:RangeValidator>
</EditItemTemplate>

</asp:TemplateField>
<asp:CommandField ShowEditButton="true" />
</Columns>
</asp:GridView>

</div>
</form>
</body>
</html>

```

Output:

## Products

Id	Name	Details	
1	Soap	Price: 50.0000 Quantity: 5	<a href="#">Edit</a>
2	Pens	Price: 10.0000 Quantity: 10	<a href="#">Edit</a>
3	Sanitizer	Price: 30.0000 Quantity: 50	<a href="#">Edit</a>

## Products

Id	Name	Details	
1	Soap	Price: 50.0000 Quantity: 5	<a href="#">Edit</a>
2	<input type="text" value="Pens"/>	Price: 10.0000 Quantity: <input type="text" value="40"/> Quantity has to be in the range of 1-20	<a href="#">Update</a> <a href="#">Cancel</a>
3	Sanitizer	Price: 30.0000 Quantity: 50	<a href="#">Edit</a>