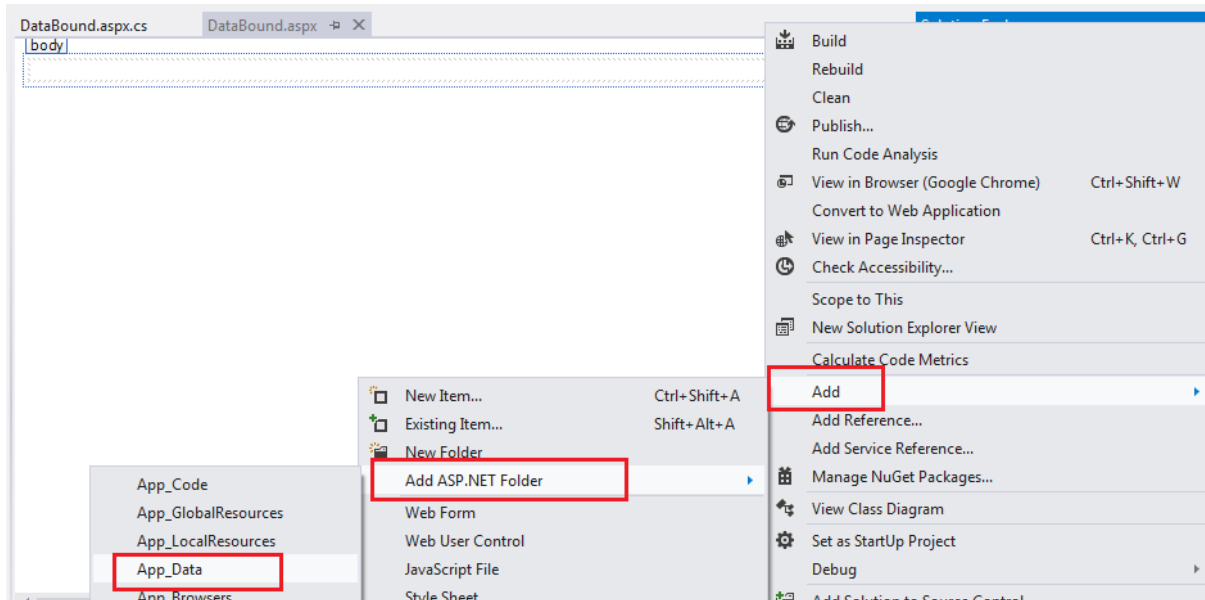


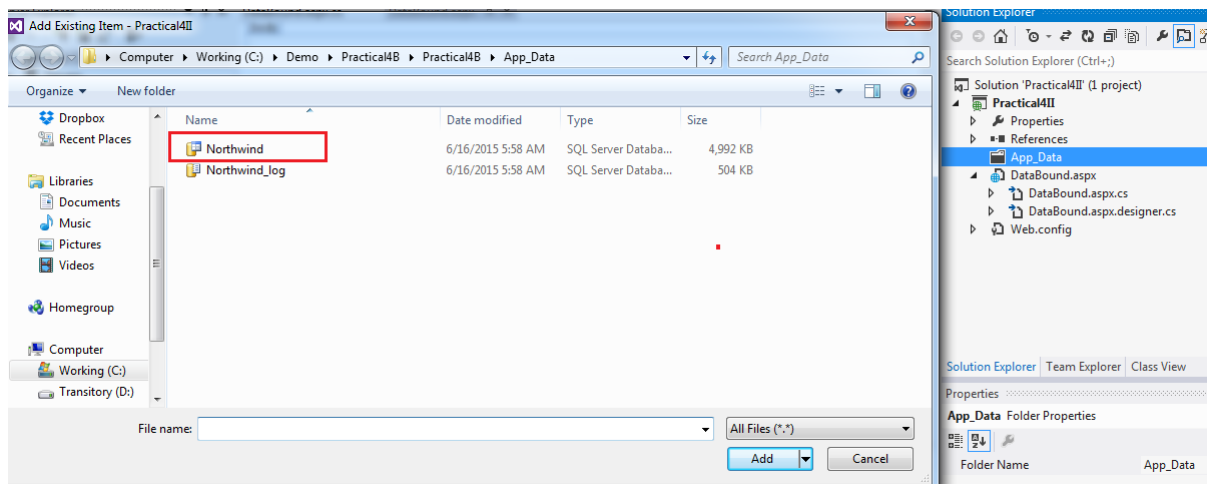
Practical 4 – Databound Control

Section 1: SQLDataSource Control, Grid View and Details View.

1. Create a new project and name it as **Practical4I**. Open a new web form and name it as **DataBound.aspx**.
2. Add the **Northwind.mdf** (provided by your tutor) into the project. Right click your project name in the Solution Explorer and choose Add --> Add ASP.Net Folder --> App Data.

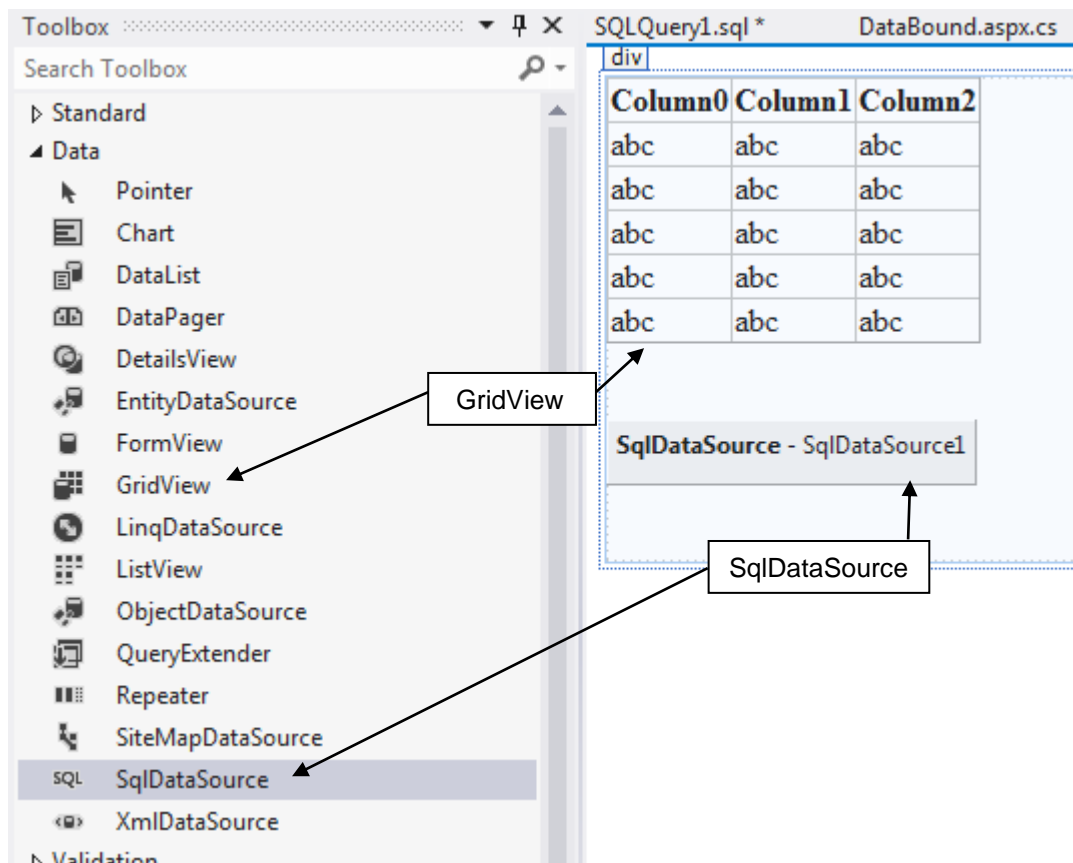


3. After the App_Data is created, right click on the Folder and select Add --> Existing Item. Locate the Northwind.mdf file and Add it by clicking the Add button.

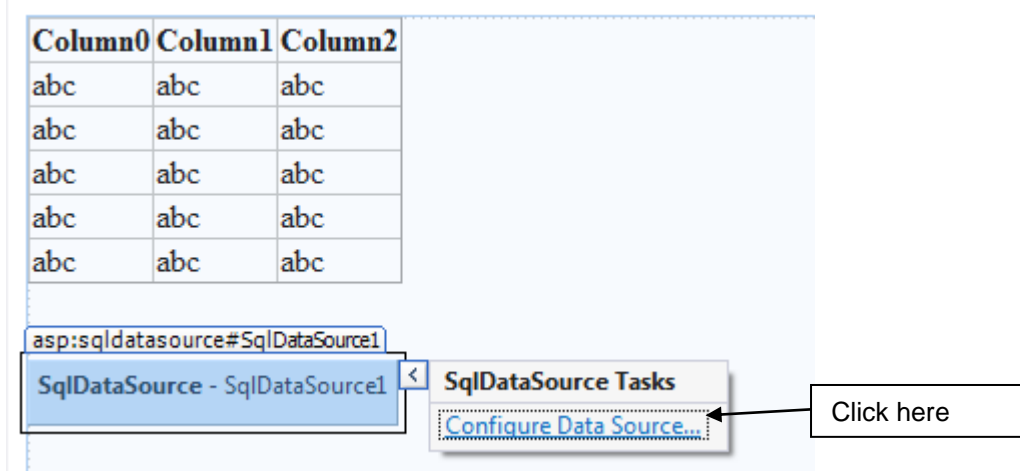


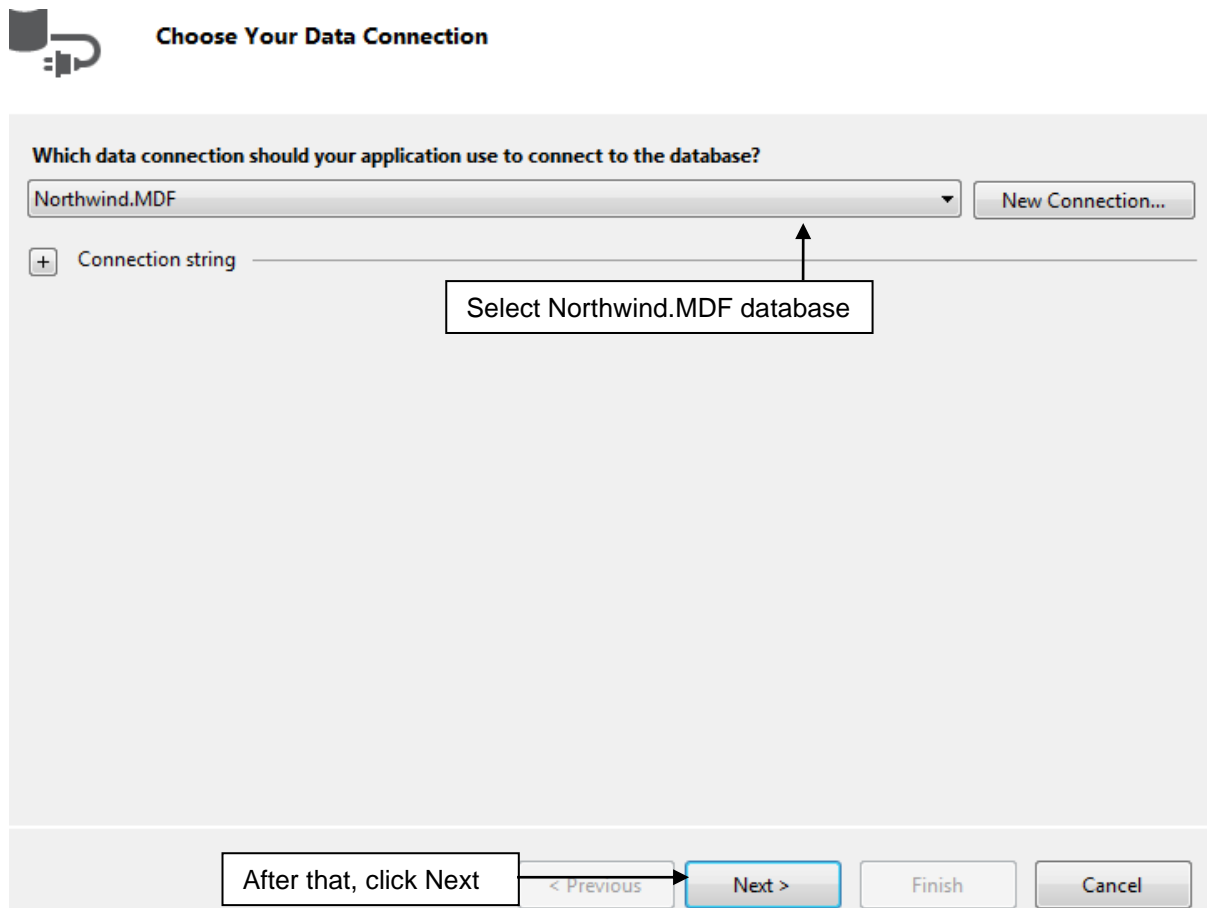
4. You should be able to see this database in your Server Explorer window if you have added it successfully.

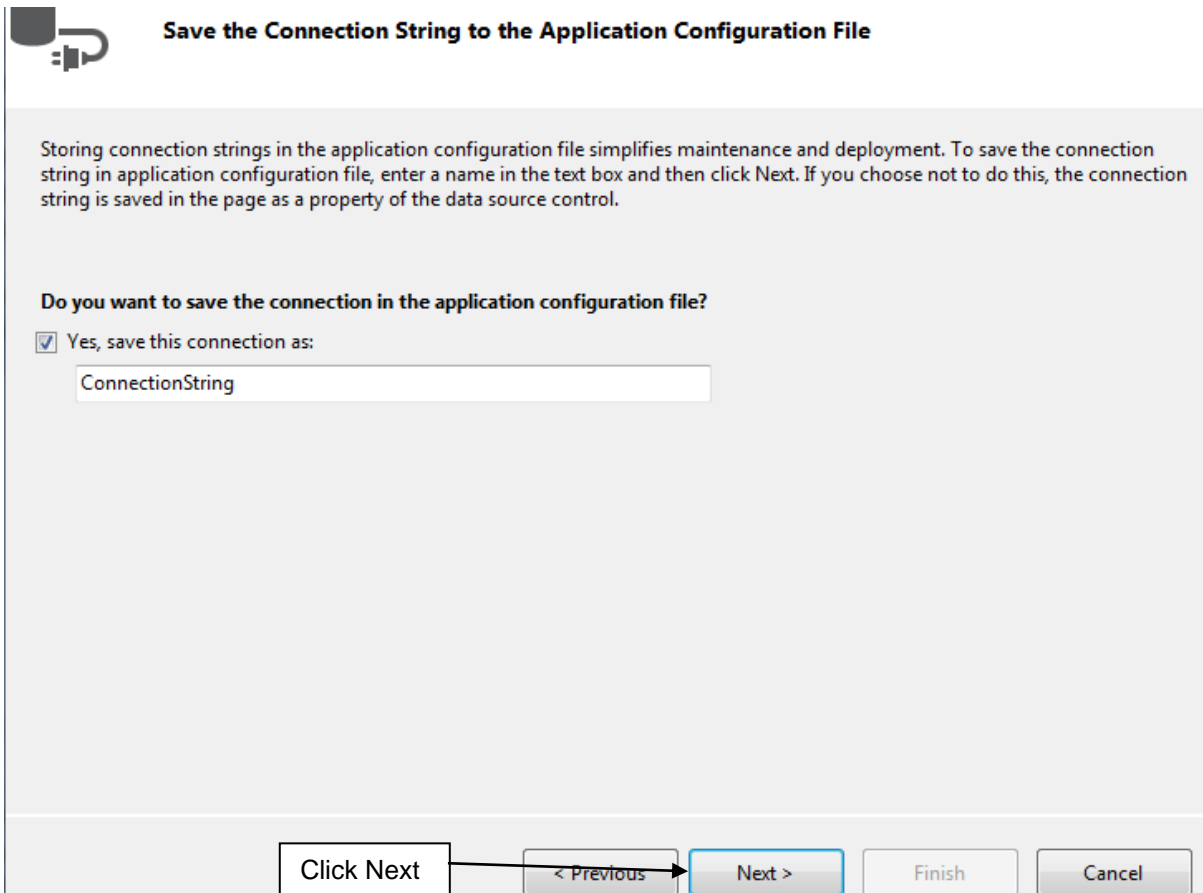
5. In the Data Toolbox, click and drop SqlDataSource and GridView controls into the development panel.



6. Configure the SqlDataSource1 to connect to the **Customer's** table.







Save the Connection String to the Application Configuration File

Storing connection strings in the application configuration file simplifies maintenance and deployment. To save the connection string in application configuration file, enter a name in the text box and then click Next. If you choose not to do this, the connection string is saved in the page as a property of the data source control.

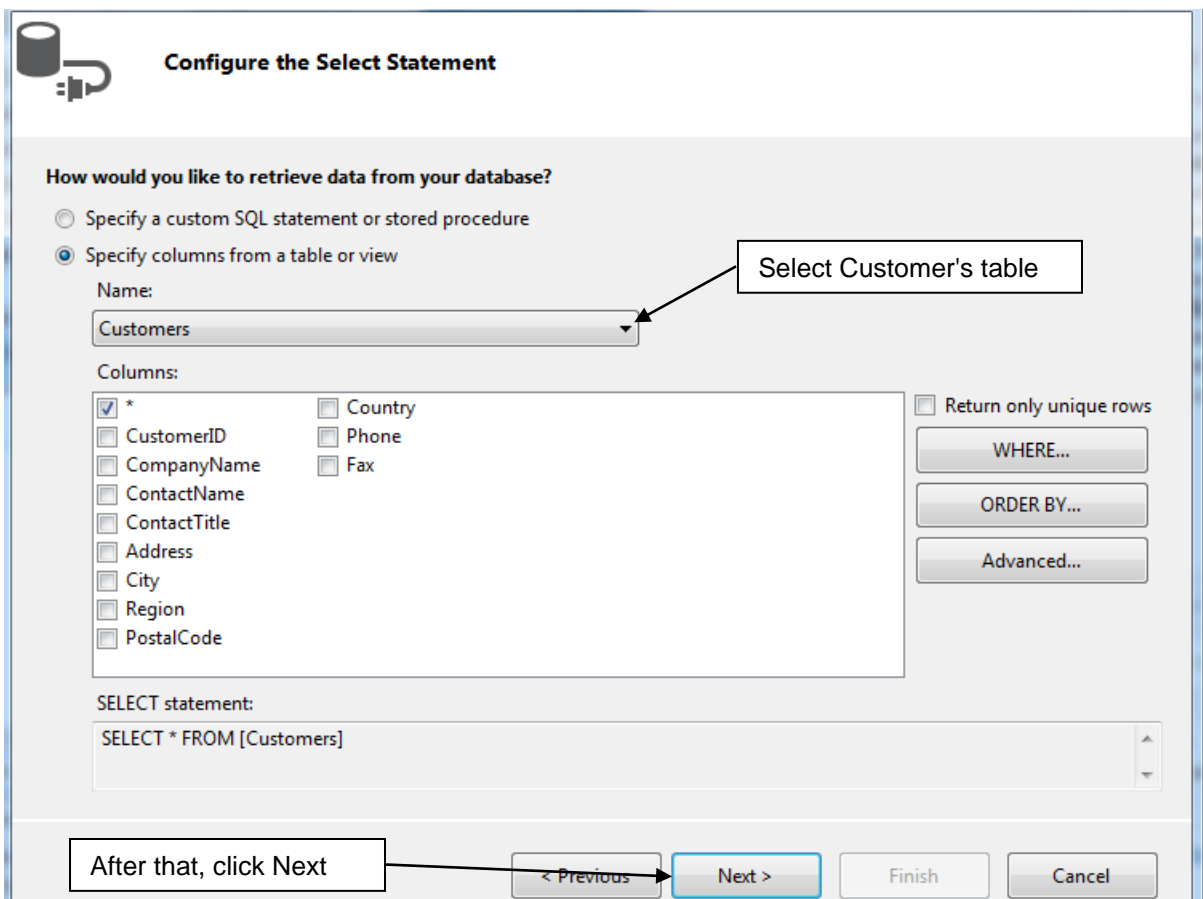
Do you want to save the connection in the application configuration file?

☒ Yes, save this connection as:

ConnectionString

Click Next

< Previous Next > Finish Cancel



Configure the Select Statement

How would you like to retrieve data from your database?

☐ Specify a custom SQL statement or stored procedure

☒ Specify columns from a table or view

Name:

Customers

Columns:

<input checked="" type="checkbox"/> *	<input type="checkbox"/> Country
<input type="checkbox"/> CustomerID	<input type="checkbox"/> Phone
<input type="checkbox"/> CompanyName	<input type="checkbox"/> Fax
<input type="checkbox"/> ContactName	
<input type="checkbox"/> ContactTitle	
<input type="checkbox"/> Address	
<input type="checkbox"/> City	
<input type="checkbox"/> Region	
<input type="checkbox"/> PostalCode	

☐ Return only unique rows

WHERE...

ORDER BY...

Advanced...

SELECT statement:

SELECT * FROM [Customers]

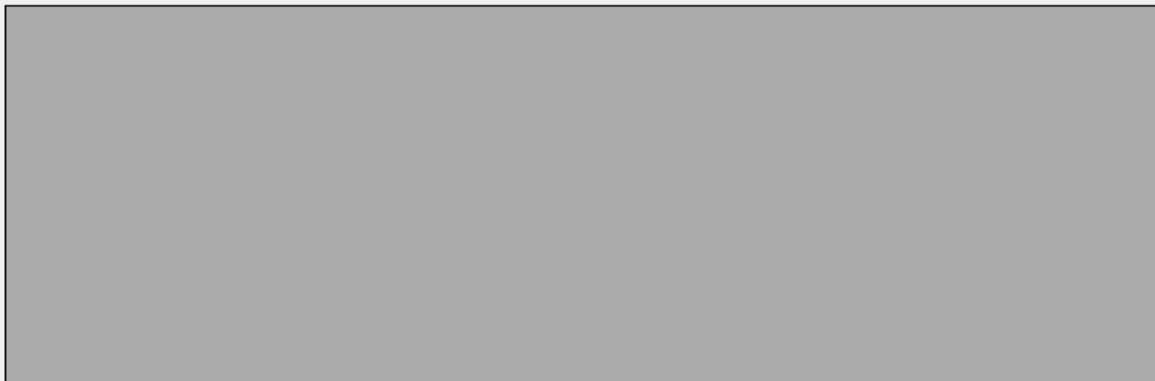
After that, click Next

< Previous Next > Finish Cancel



Test Query

To preview the data returned by this data source, click Test Query. To complete this wizard, click Finish.



Test Query

SELECT statement:

SELECT * FROM [Customers]

Click Finish

< Previous

Next >

Finish

Cancel

- Set your GridView to refer to the SqlDataSource1 database connection.

The screenshot shows a Visual Studio IDE with a GridView control on a web page. The GridView displays a table of customer data. The GridView Tasks menu is open, and the 'Choose Data Source' dropdown is set to 'SqlDataSource1'.

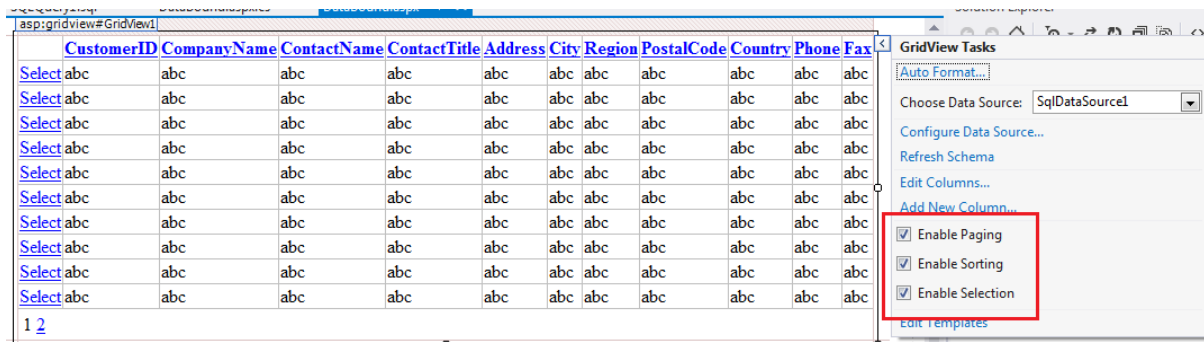
CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone	Fax
abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc
abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc
abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc
abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc
abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc

GridView Tasks

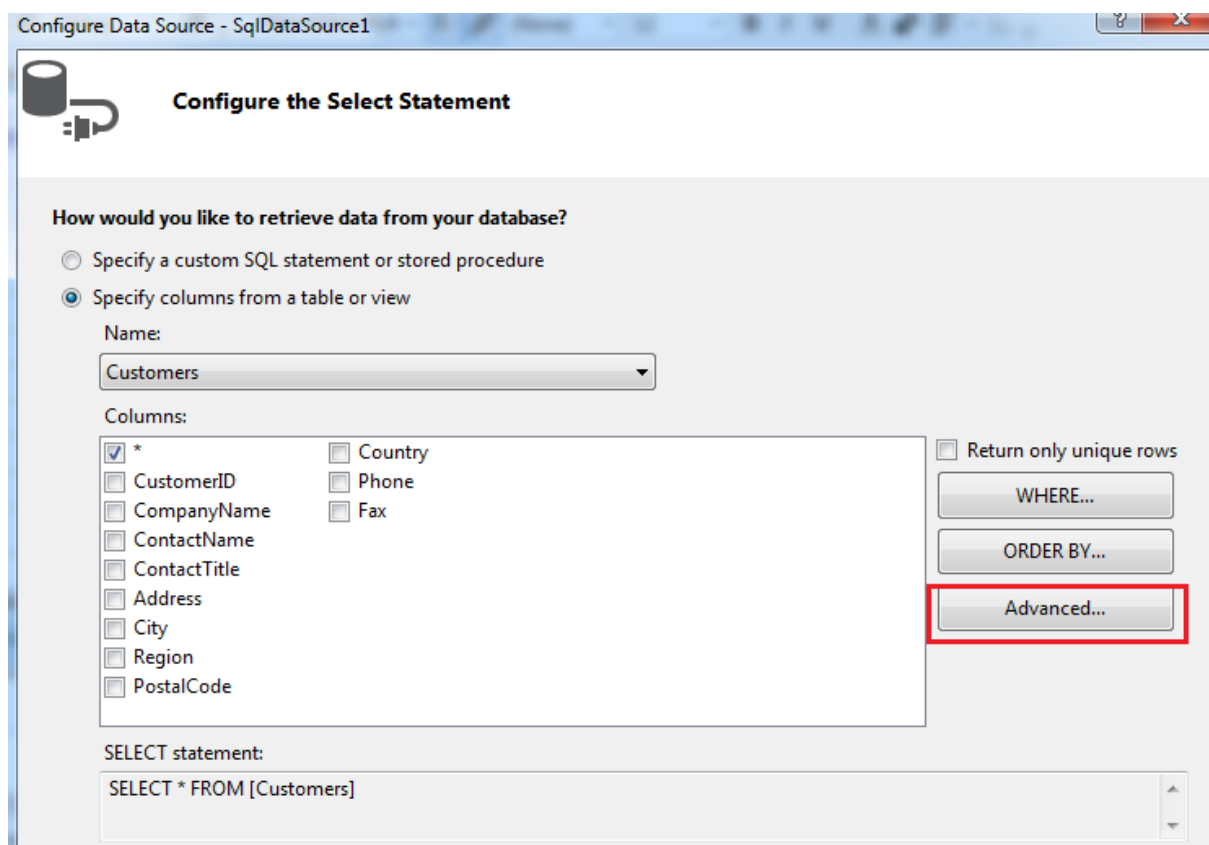
- Auto Format...
- Choose Data Source: **SqlDataSource1**
- Configure Data Source...
- Refresh Schema
- Edit Columns...
- Add New Column...
- Enable Paging
- Enable Sorting
- Enable Selection
- Edit Templates

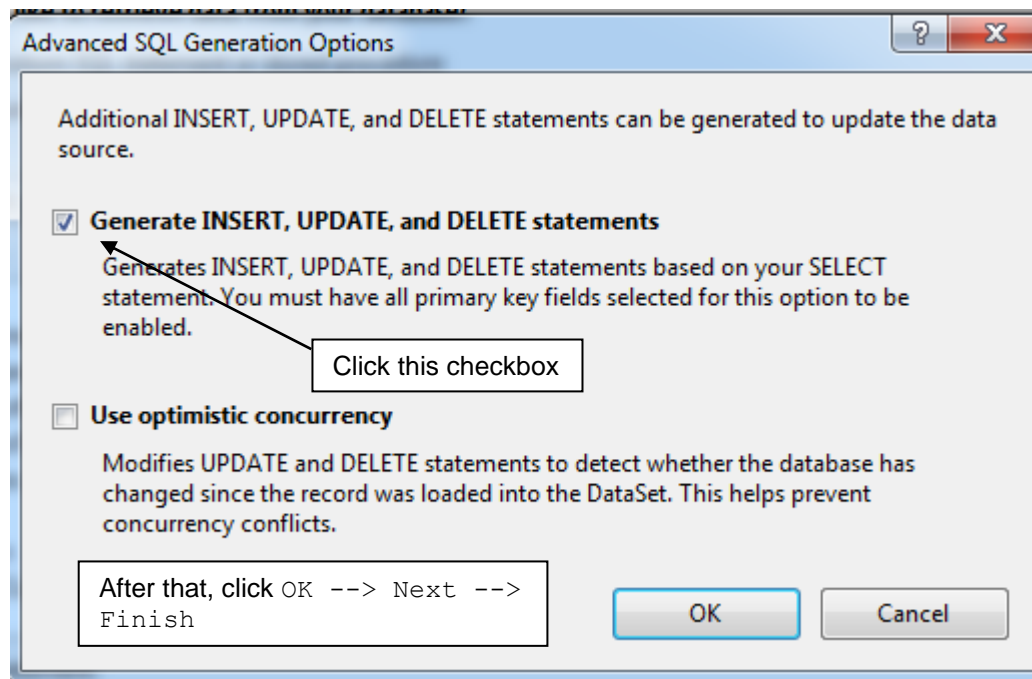
SqlDataSource - SqlDataSource1

8. You can enable Paging, Sorting and Selection by clicking on the checkbox in the GridView Task Window.

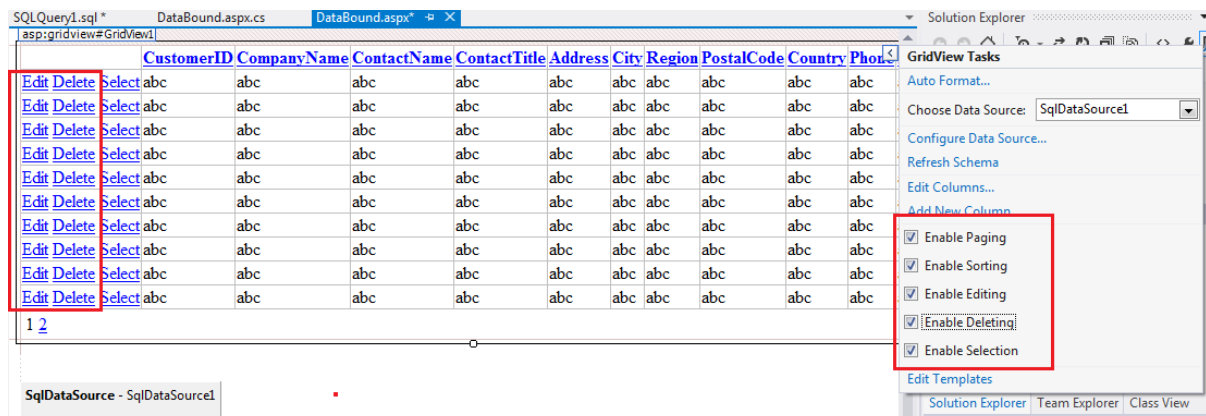


9. To enable the Edit and Delete function in GridView, you have to click on the SqlDataSource1 Smart Tag --> Configure Data Source and click **Next** button until you get to this page. Click the **Advanced..** button.

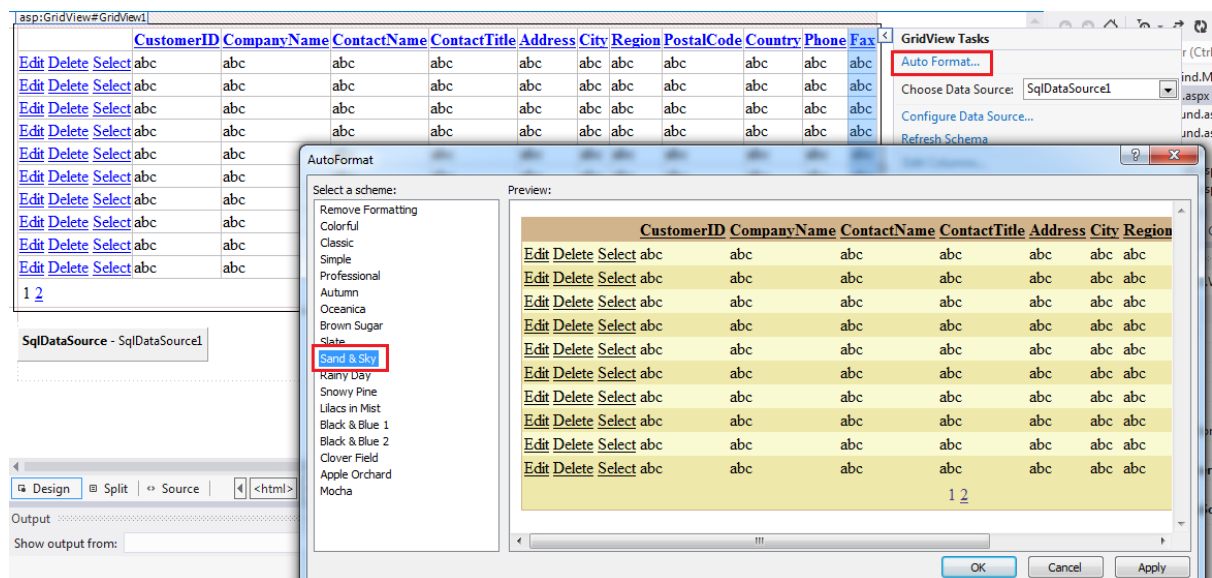




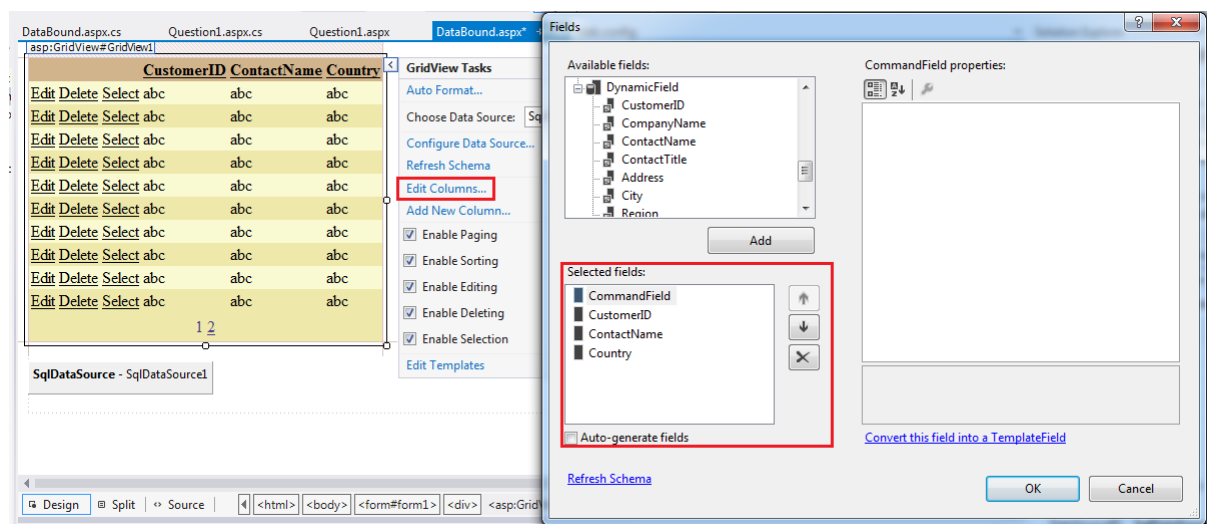
10. Now you should be able to see the **Enable Deleting** and **Enable Editing** in the GridView Tasks window. Select both checkbox and the Edit and Delete hyperlink will appear automatically in your GridView.



11. Click Auto Format to format the GridView.



12. Remove and Edit Column.



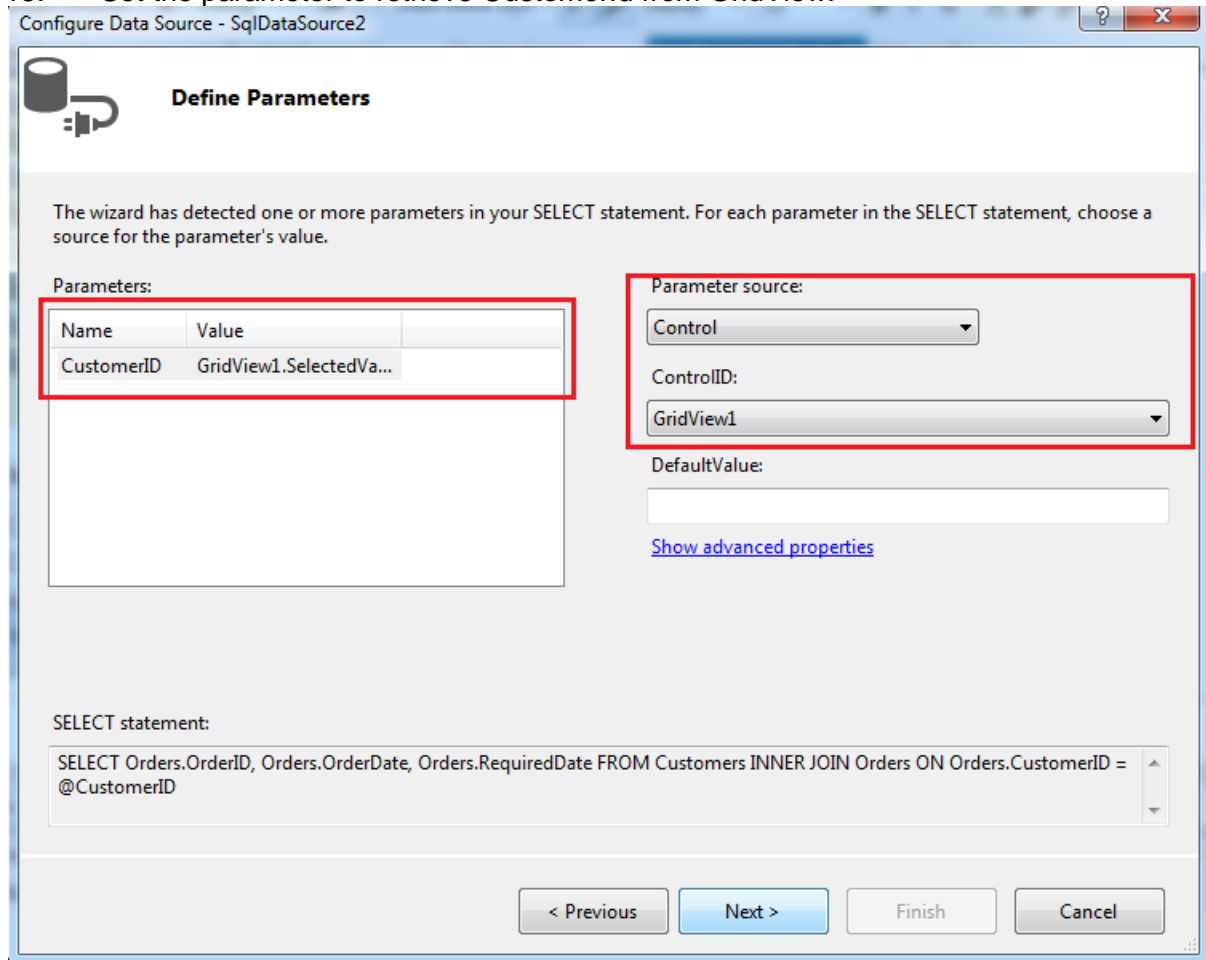
13. To create a Master-Detail scenario with DetailsView, you click and drop DetailView and another SqlDataSource into your development pane. In the SqlDataSource control, choose Specify a custom SQL statement or stored procedure.

The screenshot shows the 'Configure Data Source - SqlDataSource2' dialog box. The title bar reads 'Configure Data Source - SqlDataSource2'. The main heading is 'Configure the Select Statement'. Below this, a question asks 'How would you like to retrieve data from your database?'. There are two radio button options: 'Specify a custom SQL statement or stored procedure' (which is selected and highlighted with a red rectangle) and 'Specify columns from a table or view'. Below the first option, there is a 'Name:' dropdown menu with 'Alphabetical list of products' selected. To the right of the name is a 'Columns:' list box containing a grid of checkboxes for various database fields: ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued, and CategoryName. The '*' checkbox is checked. To the right of the columns list is a checkbox for 'Return only unique rows' which is unchecked. Below the columns list are three buttons: 'WHERE...', 'ORDER BY...', and 'Advanced...'. At the bottom, there is a text area for the 'SQL SELECT statement:'.

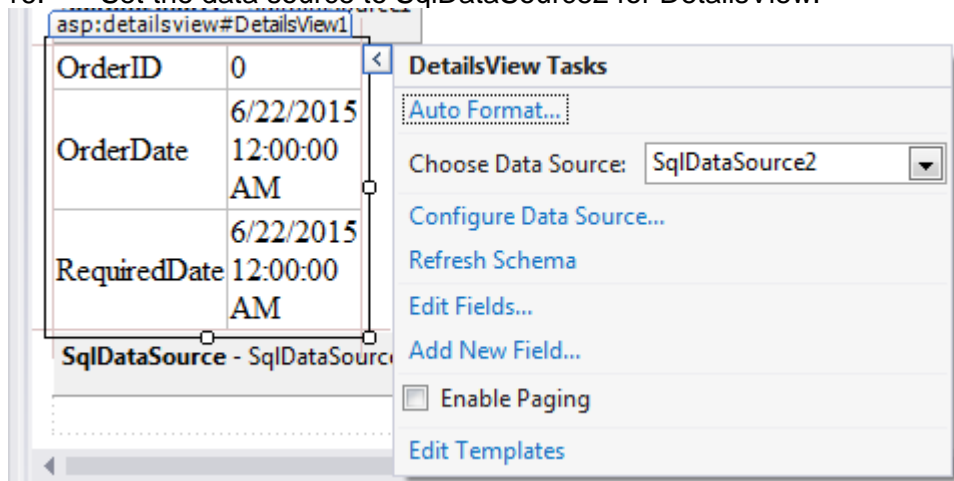
14. Type this SQL statement to retrieve order information based on CustomerId.

The screenshot shows the 'Configure Data Source - SqlDataSource2' dialog box, specifically the 'Define Custom Statements or Stored Procedures' tab. The title bar reads 'Configure Data Source - SqlDataSource2'. The main heading is 'Define Custom Statements or Stored Procedures'. Below this, a instruction says 'Click a tab to create a SQL statement for that operation.' There are four tabs: 'SELECT', 'UPDATE', 'INSERT', and 'DELETE'. The 'SELECT' tab is active. Below the tabs, there are two radio button options: 'SQL statement:' (selected) and 'Stored procedure:'. The 'SQL statement:' option has a large text area containing the following SQL query: `SELECT Orders.OrderID, Orders.OrderDate, Orders.RequiredDate FROM Customers INNER JOIN Orders ON Orders.CustomerID = @CustomerID`. Below the text area is a 'Query Builder...' button. The 'Stored procedure:' option has a dropdown menu with 'Customers By City' selected.

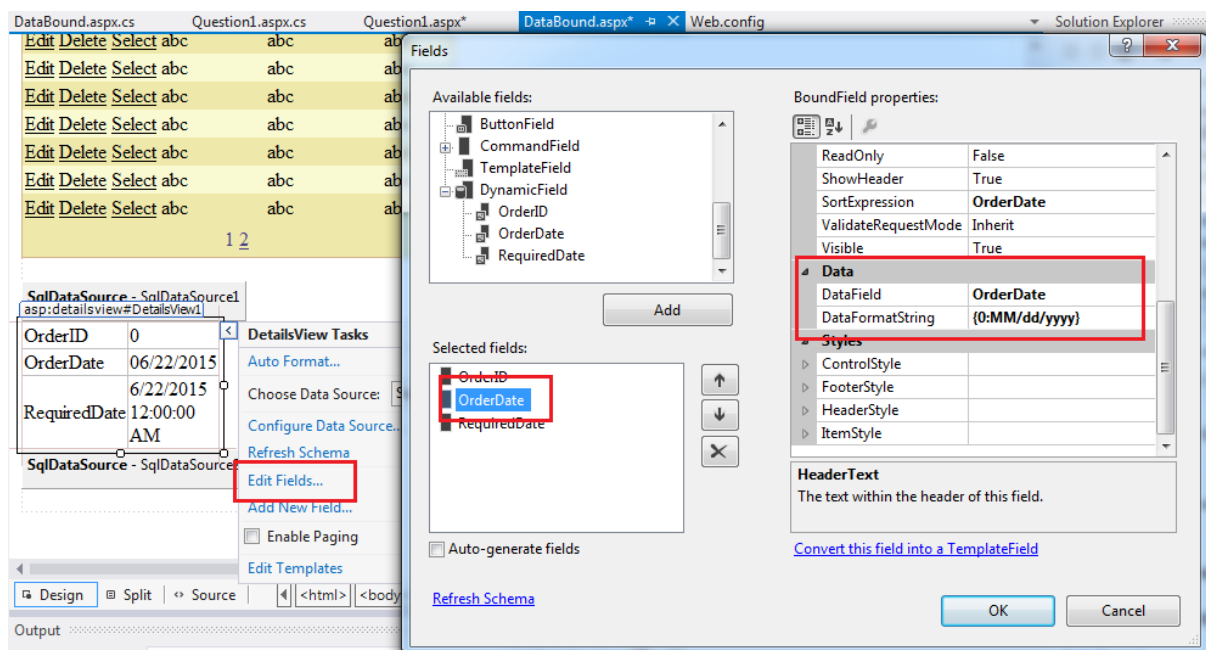
15. Set the parameter to retrieve CustomerId from GridView.



16. Set the data source to SqlDataSource2 for DetailsView.



17. Format OrderDate and RequiredDate to be displayed in MM/dd/yyyy format.



18. Run your program. You are able to select each customer in GridView and view the order details in DetailsView. But do you think that 1 customer only have 1 order? If not, what should be the appropriate DataBound control to be used to display the orders?

Note : Please refer to your lecture slides on how to use Repeater, ListControls, FormViews and DataList controls.

Lab Exercise 1

In this practical, you are required to use the database **Northwind.mdf** given by your tutor. Then based on the information given below, build an ASP.NET data-driven web page by using the C#.NET language.

The two tables and the respective fields that will be used by this Practical exercise are:

Table 1: **Categories**(CategoryID, CategoryName)

Table 2: **Products**(ProductID, ProductName, CategoryID, UnitPrice)

Web Page Design:

Search Product Information Based On Category Name

Select a category name :

Your search return : [lblResult] record.

Product Name: Databound	Unit Price:Databound
Product Name: Databound	Unit Price:Databound
Product Name: Databound	Unit Price:Databound

Repeater Control

Logic-Flow:

- This data-driven web page should allow you to display the product information based on the selected category name. You might need to consider joining the Products and Categories tables.
- Based on the selected category Name, the system will search for the related product records and then displays them on the preformatted Repeater control, and also displays the number of matching records in the lblResult Label control.
- **Note:** You should bind the DropDownList control to the CategoryName data field.

Lab Exercise 2

Design your web page as screen below.

Sales Order Information By Staff.

Please select staff name :

Please select year :

Dropdownlist

☐ Unbound **Radiobuttonlist**

Button

SqlDataSource - SqlDataSource1
asp:Panel#Panel1 **SqlDataSource**

[lbTitleGridView] **Label**

	Column0	Column1	Column2
Select	abc	abc	abc
Select	abc	abc	abc
Select	abc	abc	abc
Select	abc	abc	abc
Select	abc	abc	abc

GridView

[lbIdSales] **Label**

SqlDataSource - SqlDataSource2

Product Name: Databound

Unit Price: Databound

Quantity: Databound

Discount: Databound

Sales: Databound

SqlDataSource

DataList

Product Name: Databound

Unit Price: Databound

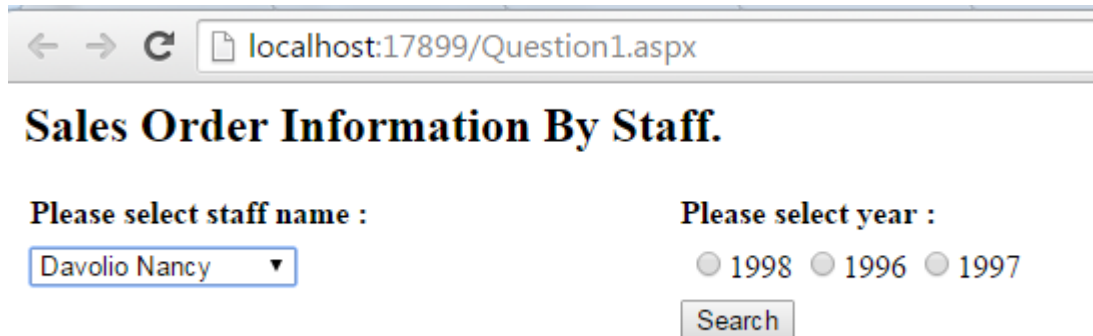
Quantity: Databound

Discount: Databound

Sales: Databound

Code the page to full fill the following requirements:

1. First Load, only display the `dropdownlist` which bound to the `SqlDataSource` control, to display staff's name from **Employees** table. The `radiobuttonlist` to display the order year should be bound using `SqlDataSource` Object. The information should retrieve from the **OrderDate** column from **Orders** table



localhost:17899/Question1.aspx

Sales Order Information By Staff.

Please select staff name :

Davolio Nancy ▼

Please select year :

☐ 1998 ☐ 1996 ☐ 1997

Search

2. After selecting the staff name and the year, click on the `Search` button and display all the `OrderId`, and `OrderDate` in the `GridView` closed by the selected sales staff.

The title label must display the selected name and the selected year. Also display the total sales for that year for that particular staff. You can get the needed information in the **OrderDetails** table.

Data in `GridView` must be bound to database using `Sql Data Object`.

Sales Order Information By Staff.

Please select staff name :

Fuller Andrew ▼

Please select year :

☐ 1998 ☒ 1996 ☐ 1997

[Sales Order by Fuller Andrew in the year of 1996. Grand Total Sales:\\$21,757.06](#)

	OrderId	OrderDate
Select	10265	25 Jul 1996
Select	10277	09 Aug 1996
Select	10280	14 Aug 1996
Select	10295	02 Sep 1996
Select	10300	09 Sep 1996
Select	10307	17 Sep 1996
Select	10312	23 Sep 1996
Select	10313	24 Sep 1996
Select	10327	11 Oct 1996
Select	10339	28 Oct 1996
Select	10345	04 Nov 1996
Select	10368	29 Nov 1996
Select	10379	11 Dec 1996
Select	10388	19 Dec 1996
Select	10392	24 Dec 1996
Select	10398	30 Dec 1996

3. Display Product Name, Unit Price, Quantity, Discount and Sales in the DataList control once you click on the selected OrderId in GridView.

Display the total Amount of Sales in the DataList label title.

The DataList control must be bound to database using SqlDataSource control.

Sales Order Information By Staff.

Please select staff name :

Fuller Andrew ▼

Please select year :

☐ 1998 ☒ 1996 ☐ 1997

Search

Sales Order by Fuller Andrew in the year of 1996. Grand Total Sales:\$21,757.06

	OrderId	OrderDate	
Select	10265	25 Jul 1996	Total Sales for Order Id:10277=\$1,200.80 Product Name: Rössle Sauerkraut Unit Price: \$36.40 Quantity: 20 Discount: 0 % Sales: \$728.00 Product Name: Tarte au sucre Unit Price: \$39.40 Quantity: 12 Discount: 0 % Sales: \$472.80
Select	10277	09 Aug 1996	
Select	10280	14 Aug 1996	
Select	10295	02 Sep 1996	
Select	10300	09 Sep 1996	
Select	10307	17 Sep 1996	
Select	10312	23 Sep 1996	
Select	10313	24 Sep 1996	
Select	10327	11 Oct 1996	
Select	10339	28 Oct 1996	
Select	10345	04 Nov 1996	
Select	10368	29 Nov 1996	
Select	10379	11 Dec 1996	
Select	10388	19 Dec 1996	
Select	10392	24 Dec 1996	
Select	10398	30 Dec 1996	

Note: Orders, OrderDetails and Employee tables are involves in this exercise. You have to join certain tables in order to get the output as required.