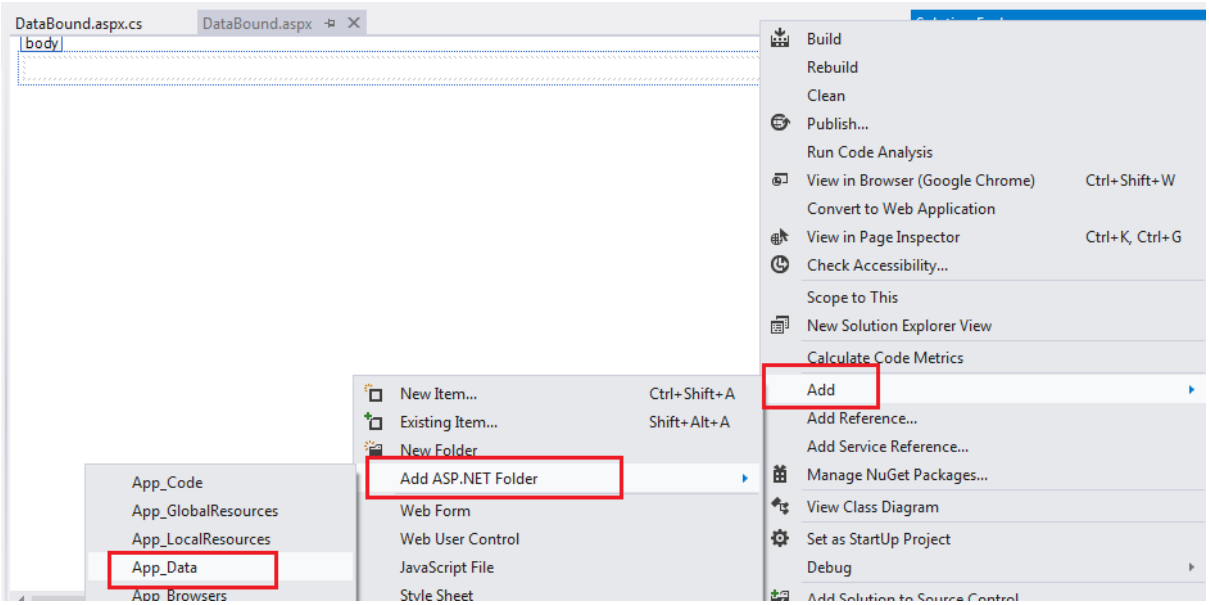
Practical 4 – Databound Control

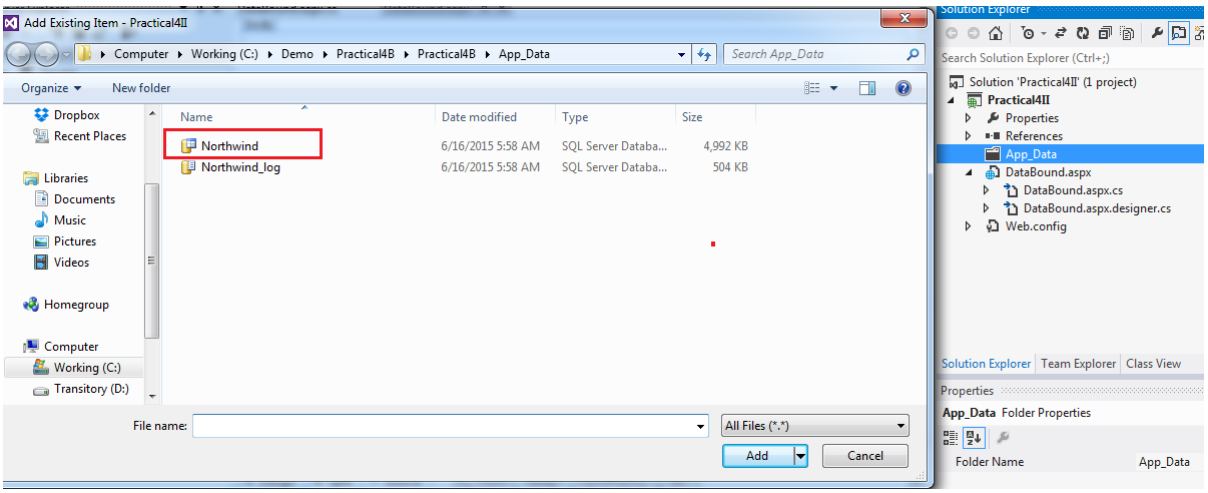
Section 1: SQLDataSource Control, Grid View and Details View.

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`.

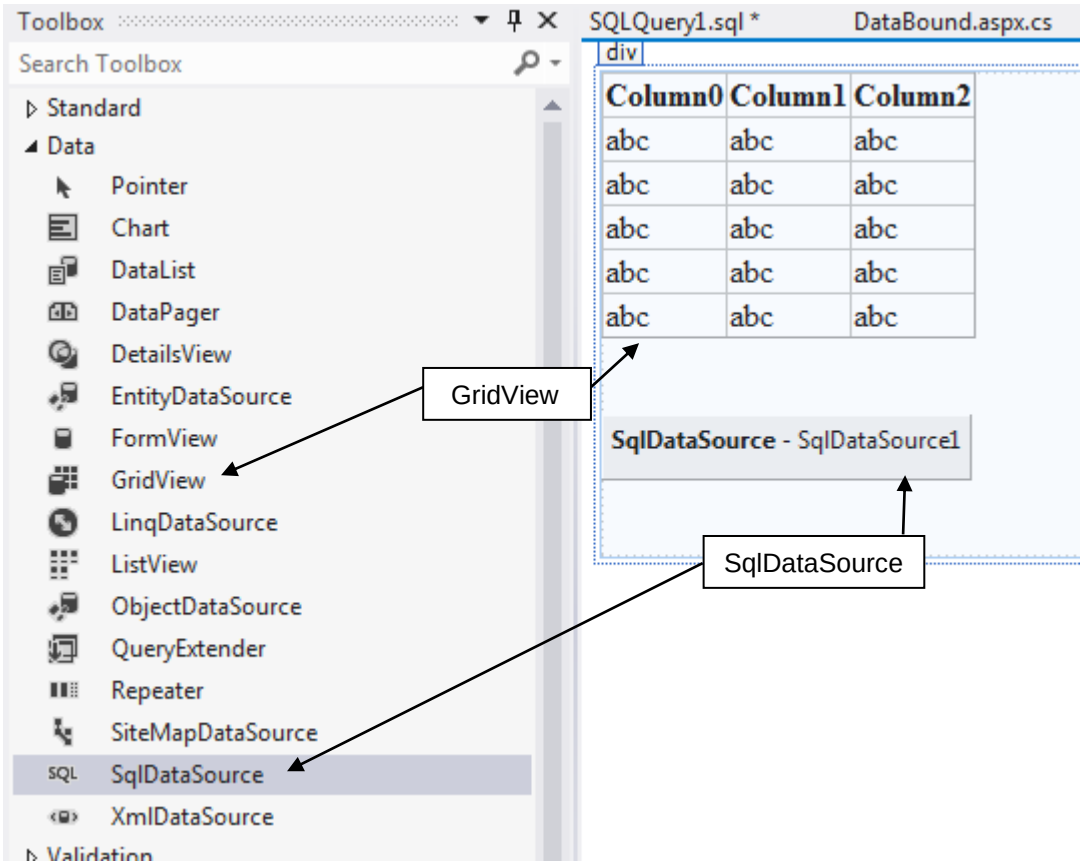


3. After the App_Data is created, right click on the Folder and select `Add --> Existing Item`. Locate the Northwind.mdf file and Add it by clicking the Add button.

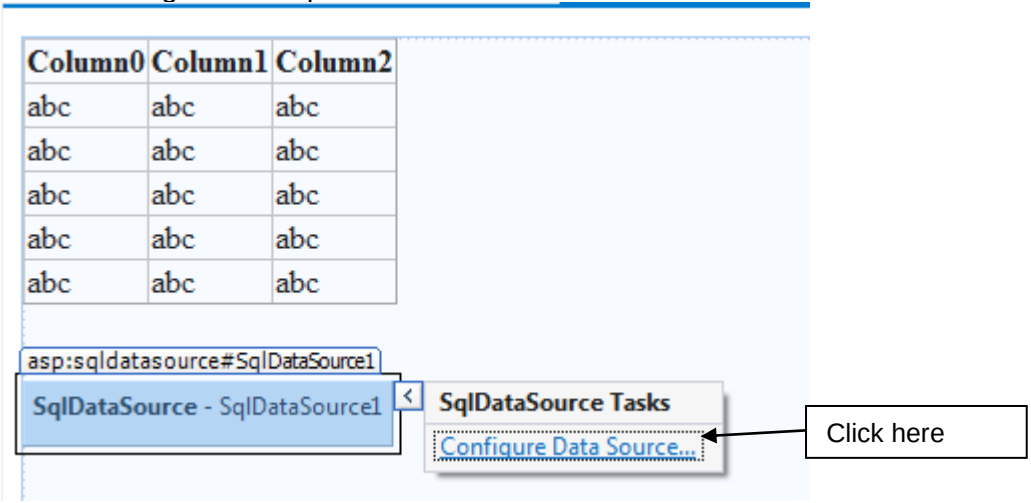


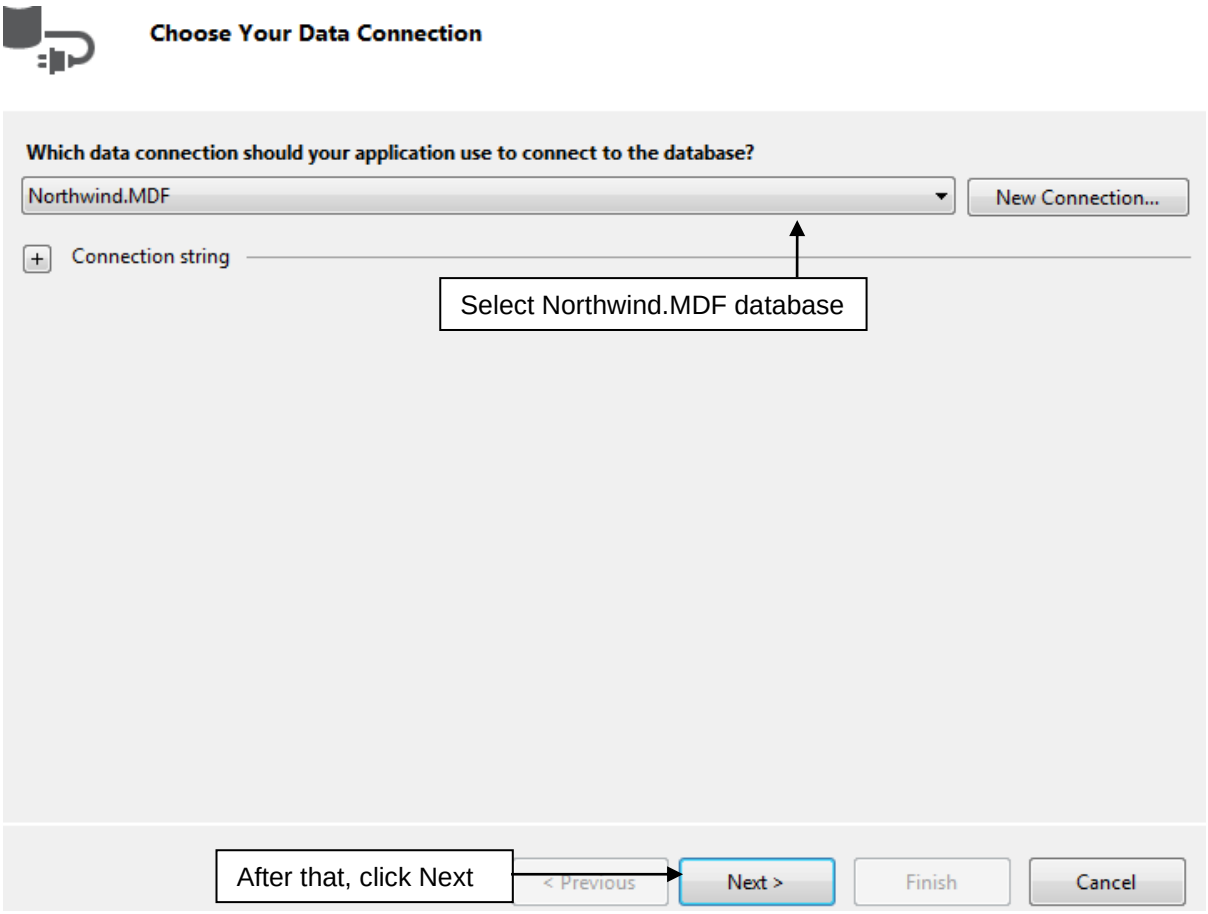
4. You should be able to see this database in your Server Explorer window if you have added it successfully.

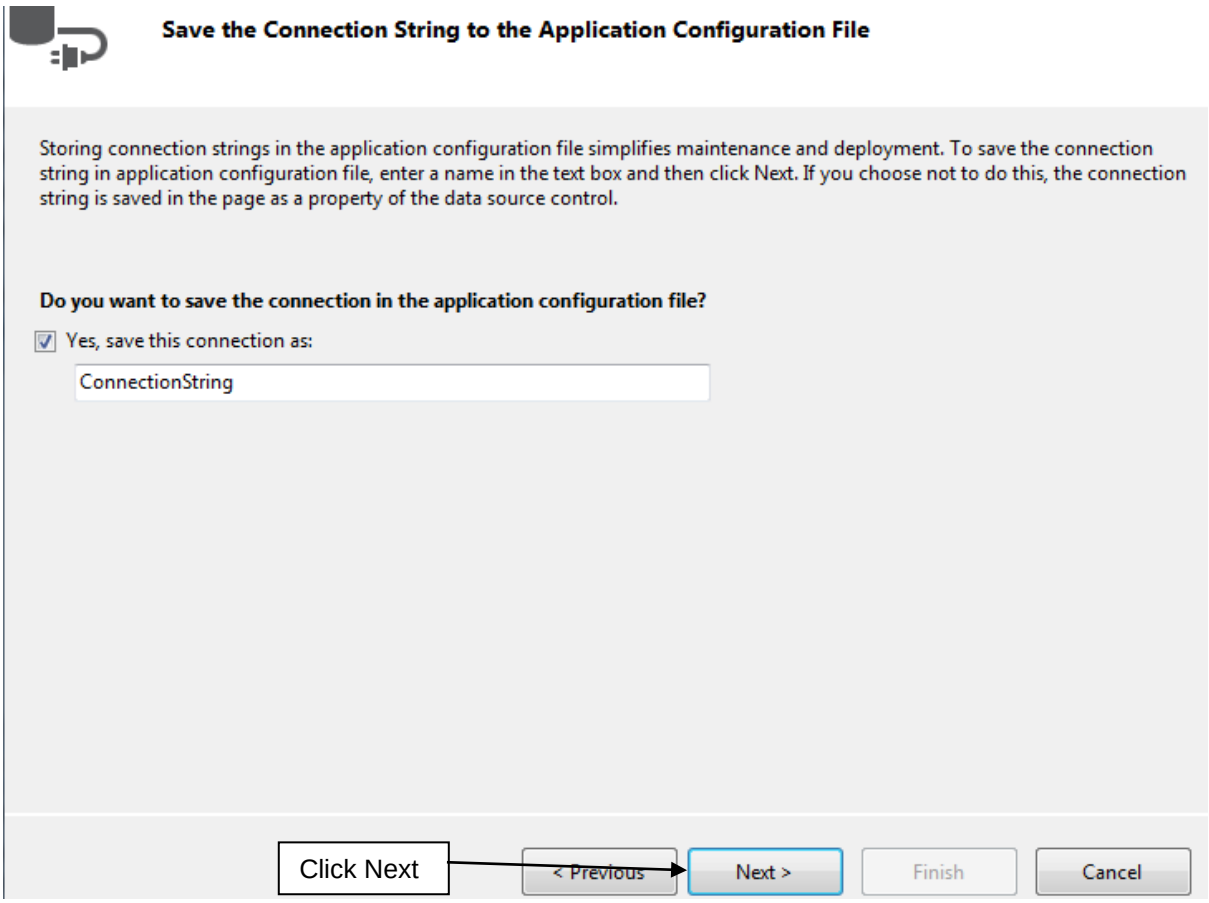
5. In the Data Toolbox, click and drop SqlDataSource and GridView controls into the development panel.

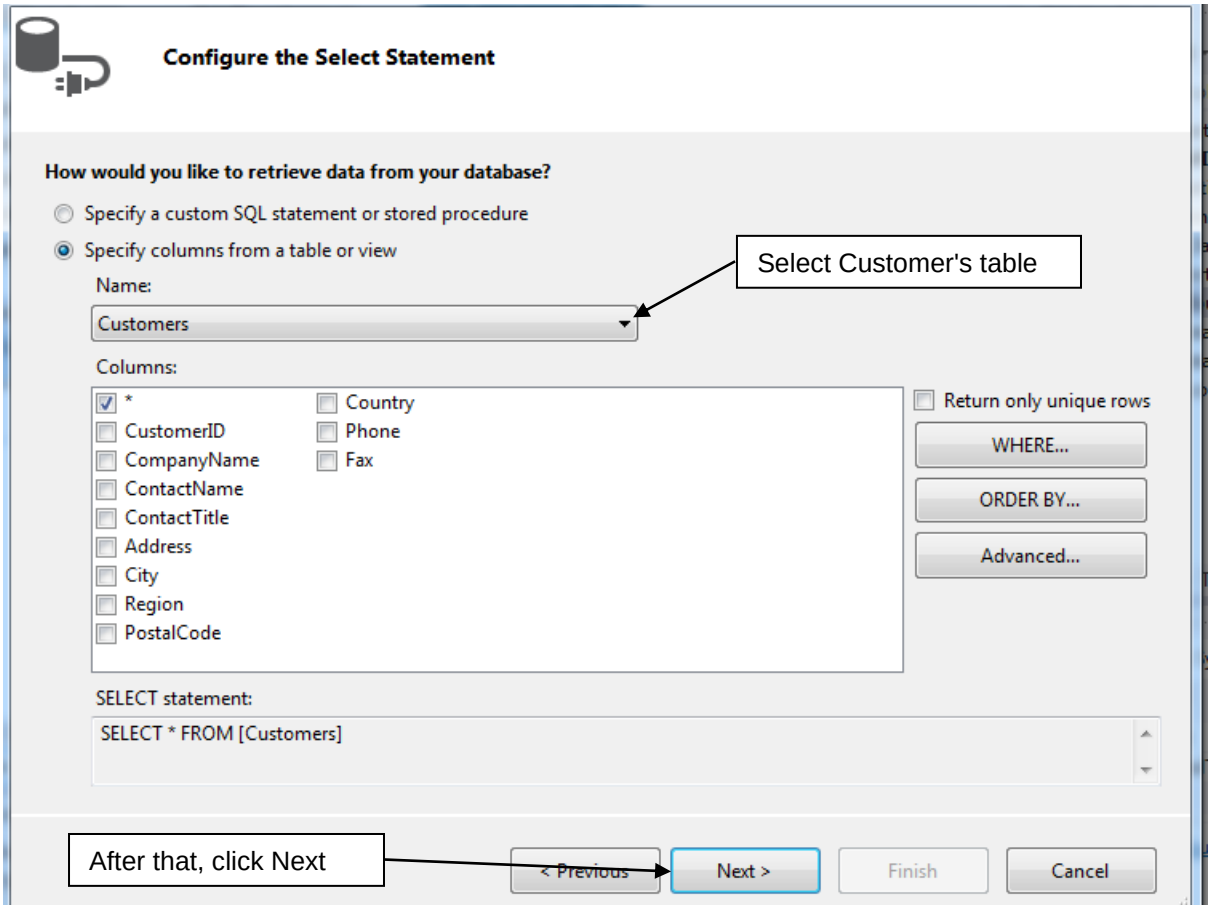


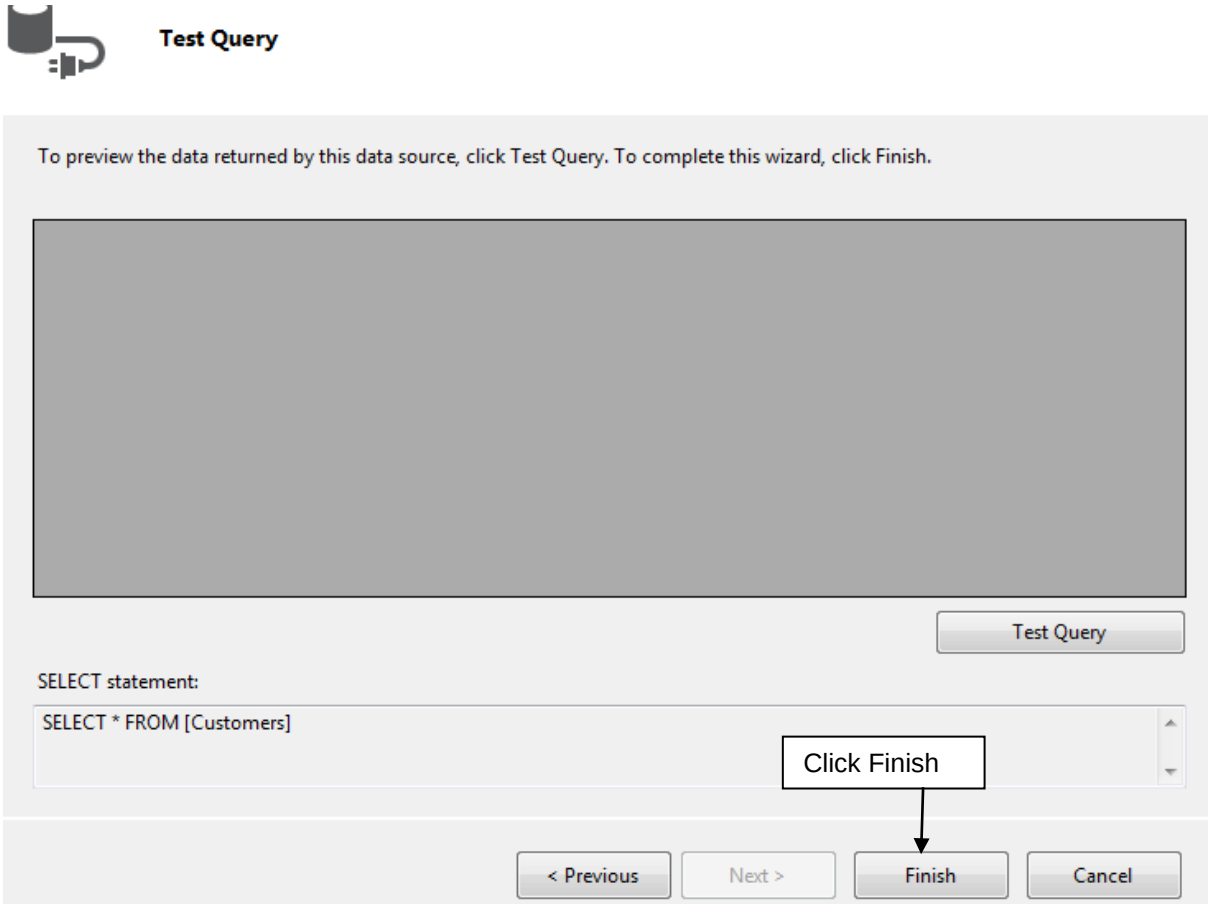
6. Configure the SqlDataSource1 to connect to the **Customer's** table.



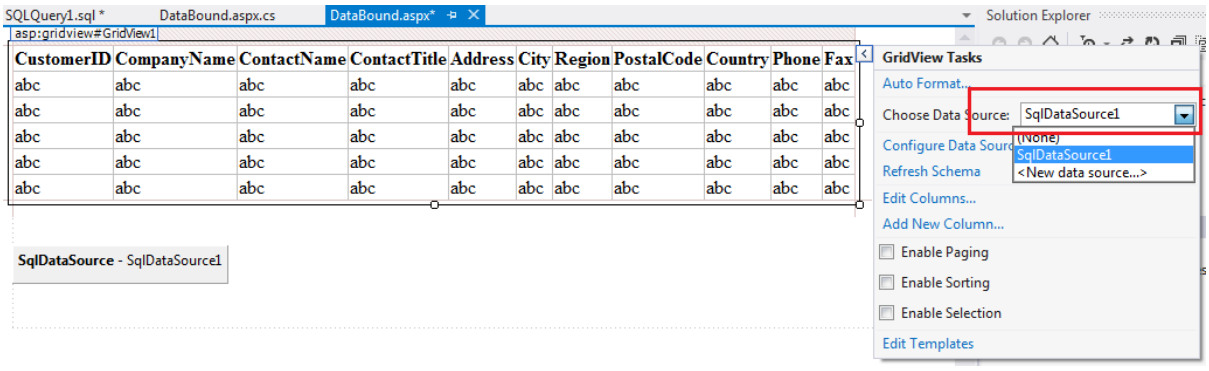

Choose Your Data Connection
Which data connection should your application use to connect to the database?
Northwind.MDF
New Connection...
Connection string
Select Northwind.MDF database
After that, click Next
< Previous
Next >
Finish
Cancel


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

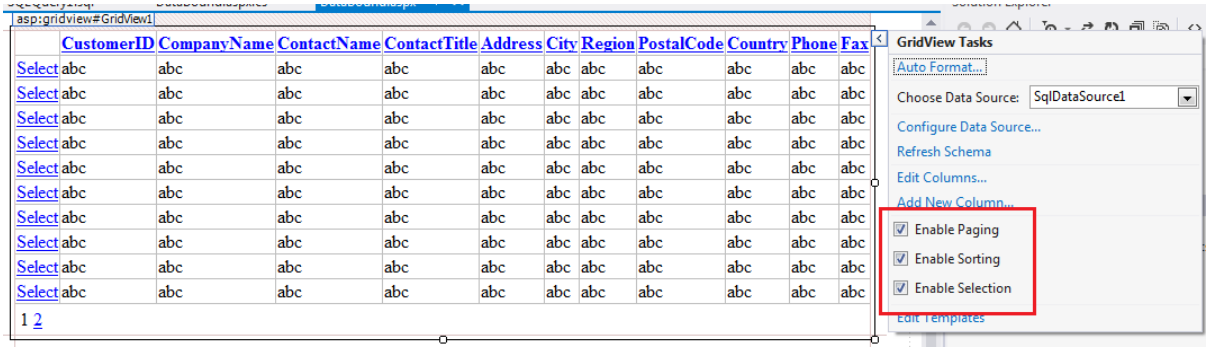

Configure the Select Statement
How would you like to retrieve data from your database?
Specify a custom SQL statement or stored procedure
Specify columns from a table or view
Select Customer's table
Name:
Customers
Columns:
*
CustomerID
CompanyName
ContactName
ContactTitle
Address
City
Region
PostalCode
Country
Phone
Fax
Return only unique rows
WHERE...
ORDER BY...
Advanced...
SELECT statement:
SELECT * FROM [Customers]
After that, click Next
< Previous
Next >
Finish
Cancel



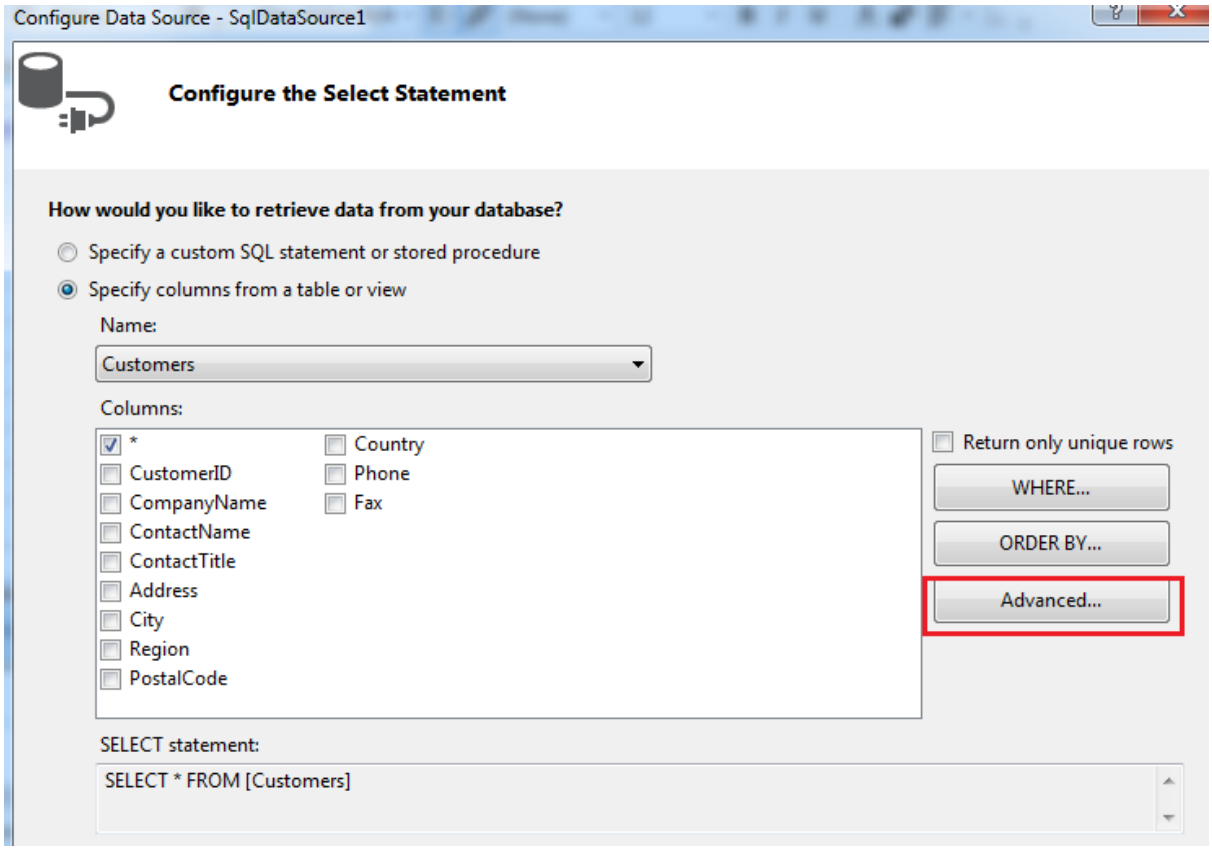
7. Set your `GridView` to refer to the `SqlDataSource1` database connection.

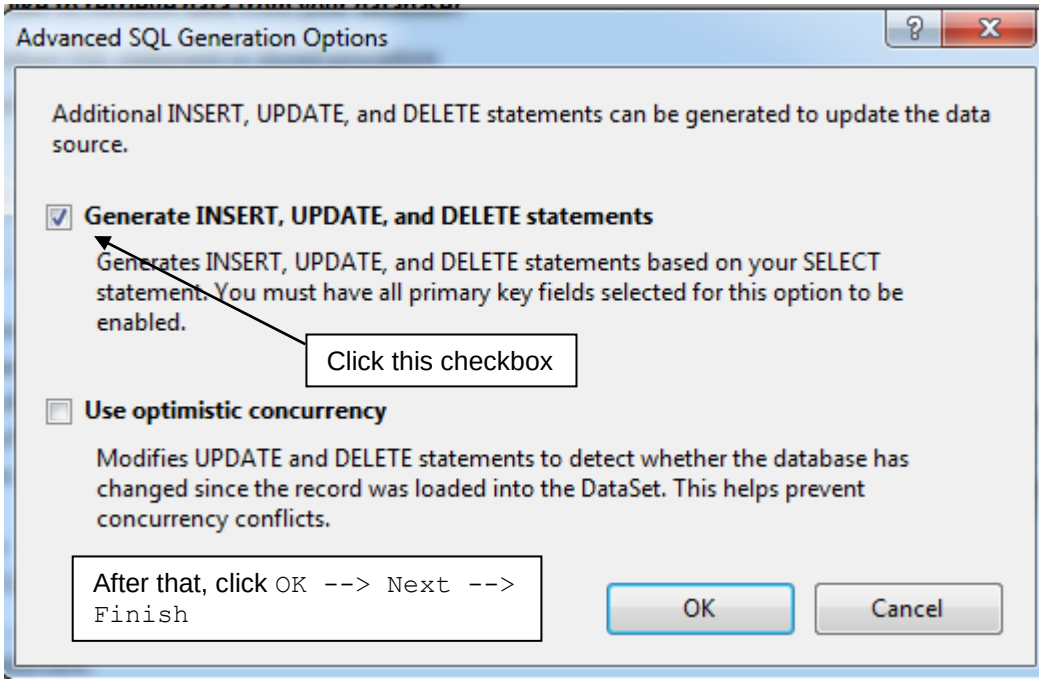


8. You can enable Paging, Sorting and Selection by clicking on the checkbox in the GridView Task Window.

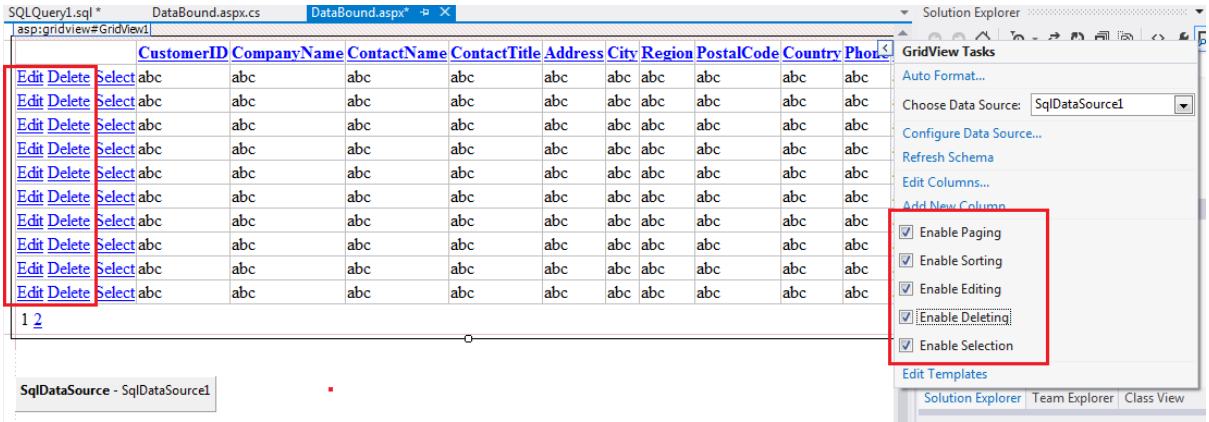


9. To enable the Edit and Delete function in GridView, you have to click on the `SqlDataSource1` Smart Tag --> Configure Data Source and click **Next** button until you get to this page. Click the **Advanced**.. button.

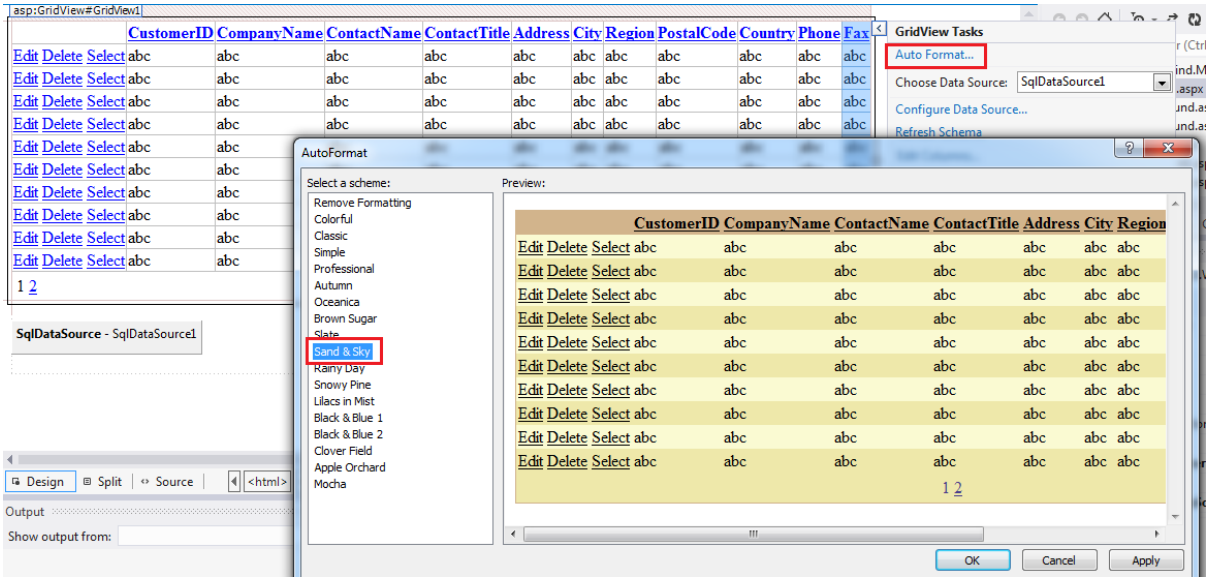




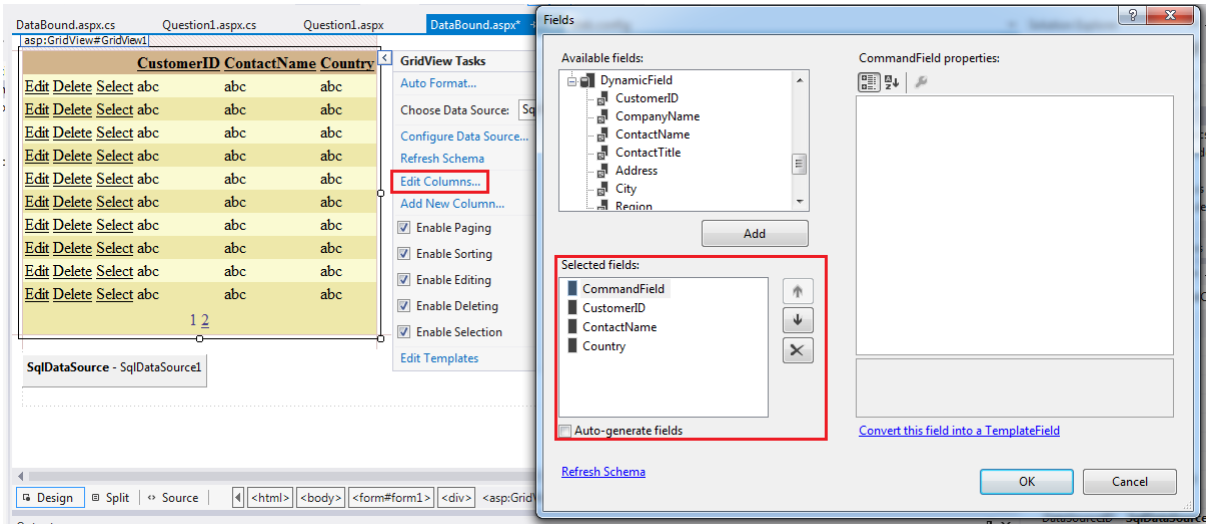
10. Now you should be able to see the **Enable Deleting** and **Enable Editing** in the GridView Tasks window. Select both checkbox and the Edit and Delete hyperlink will appear automatically in your GridView.



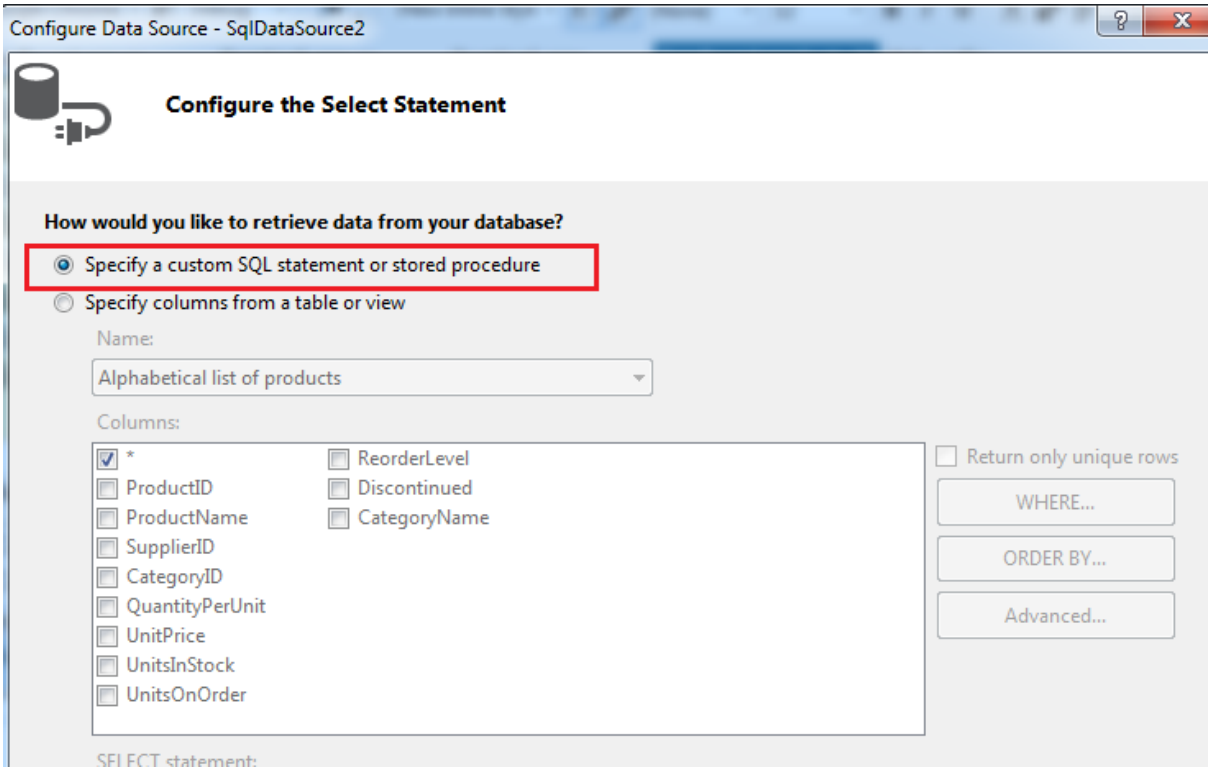
11. Click Auto Format to format the GridView.



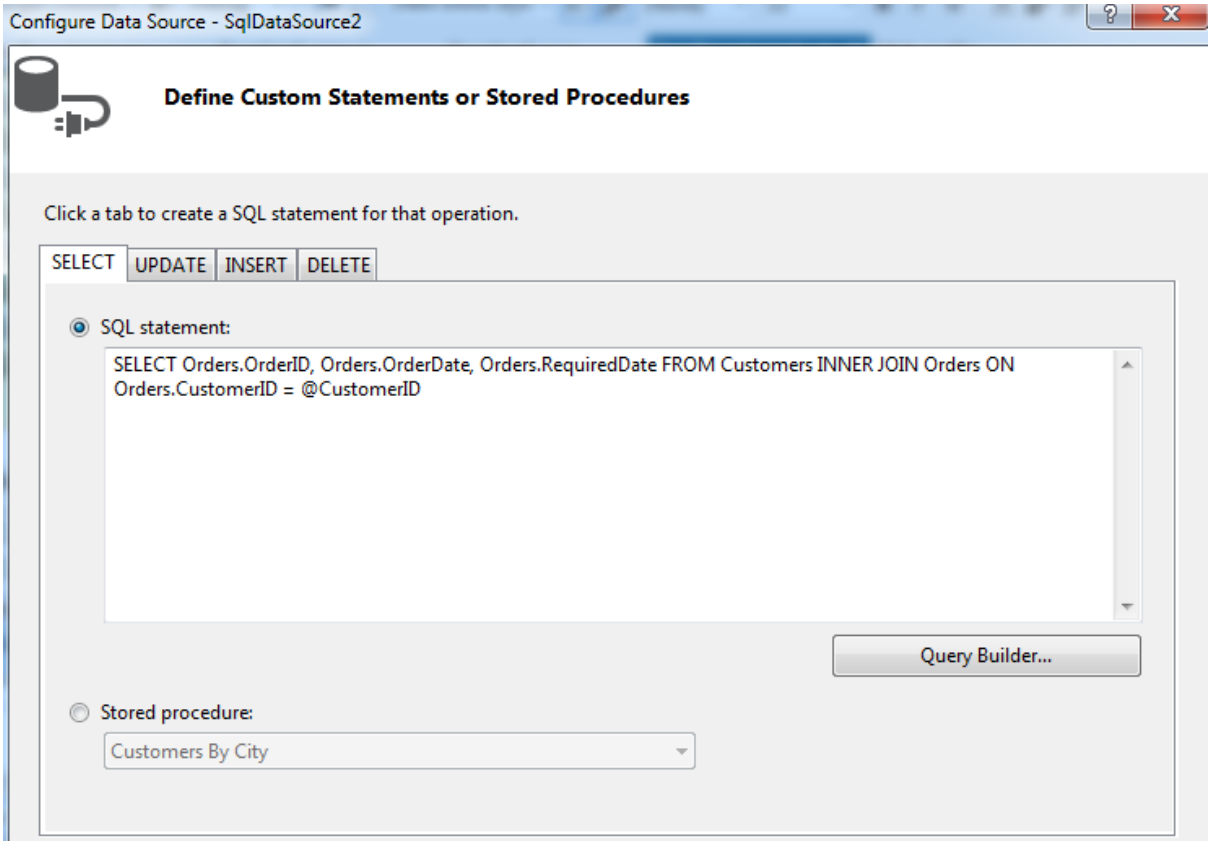
12. Remove and Edit Column.



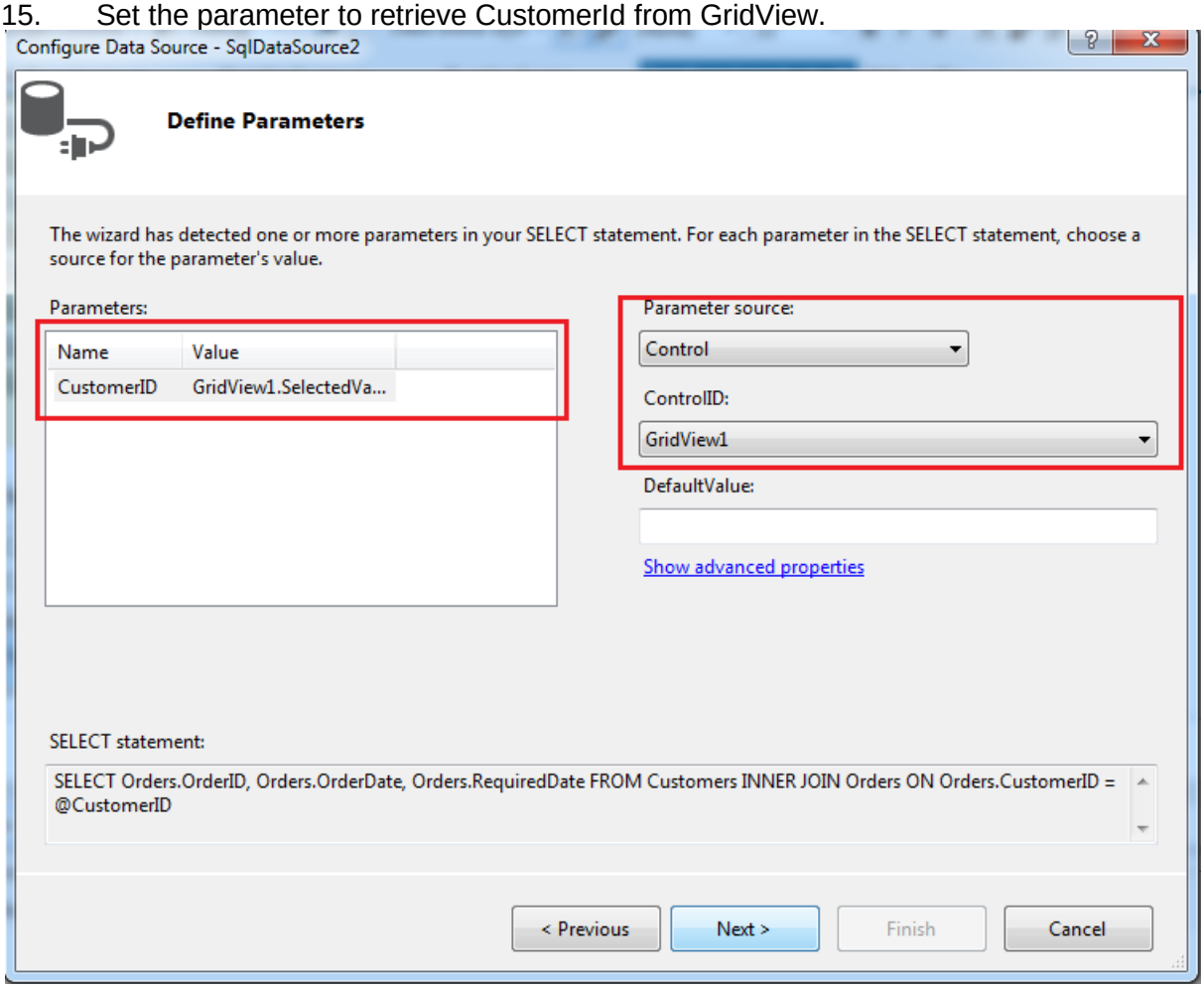
13. To create a Master-Detail scenario with DetailsView, you click and drop DetailView and another SqlDataSource into your development pane. In the SqlDataSource control, choose Specify a custom SQL statement or stored procedure.



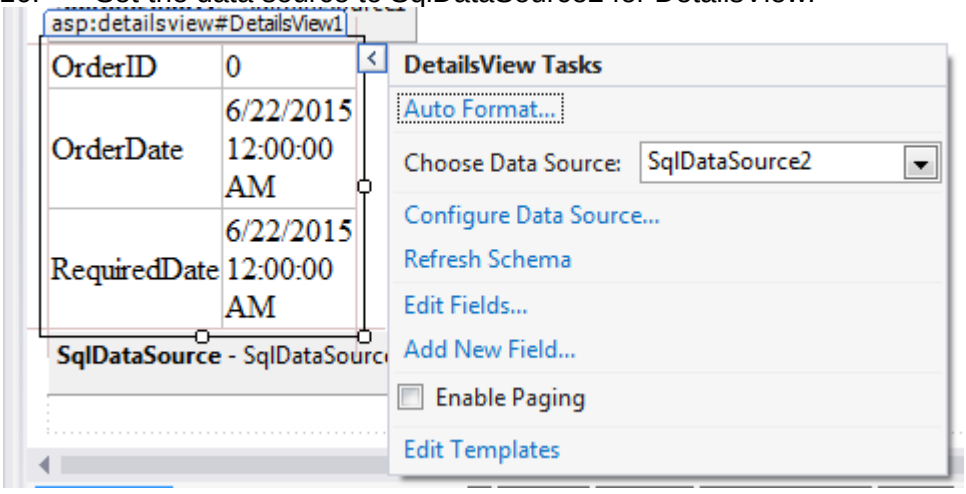
14. Type this SQL statement to retrieve order information based on CustomerId.



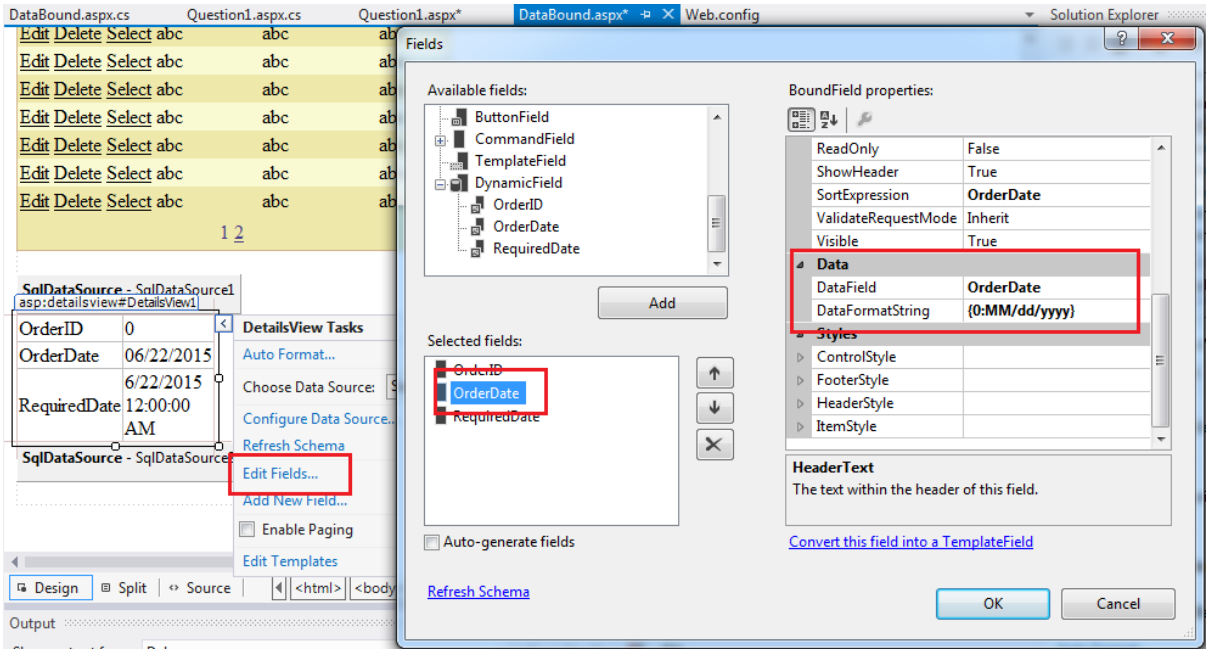
15. Set the parameter to retrieve CustomerId from GridView.



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

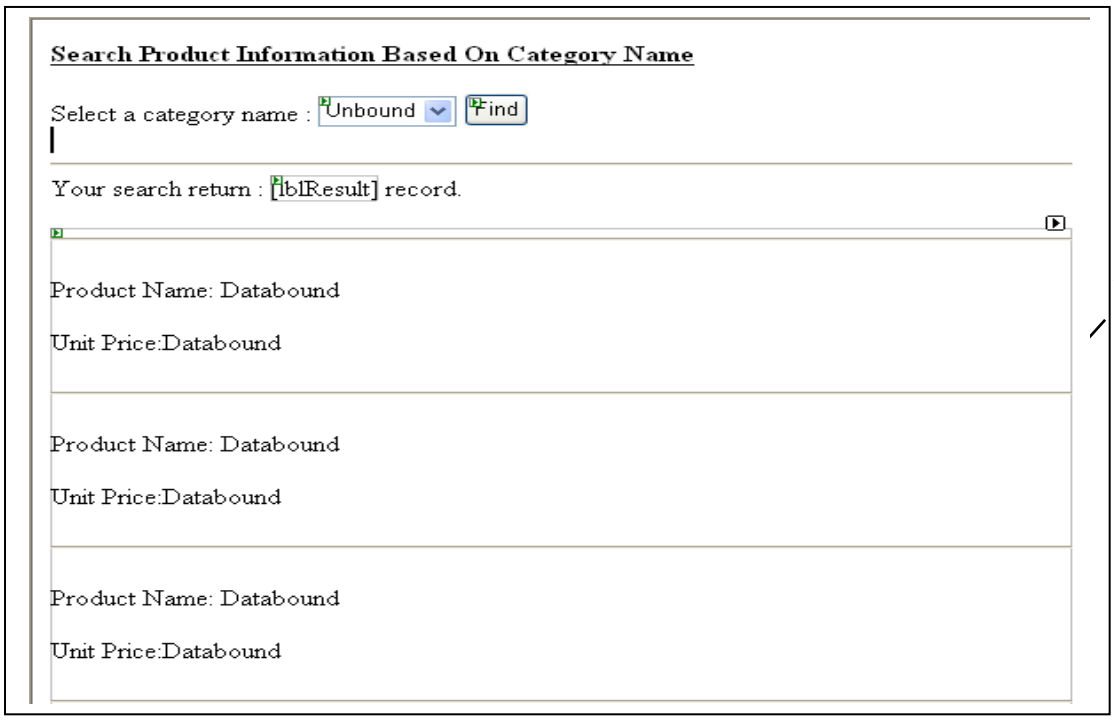
In this practical, you are required to use the database **Northwind.mdf** given by your tutor. Then based on the information given below, build an ASP.NET data-driven web page by using the C#.NET language.

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:

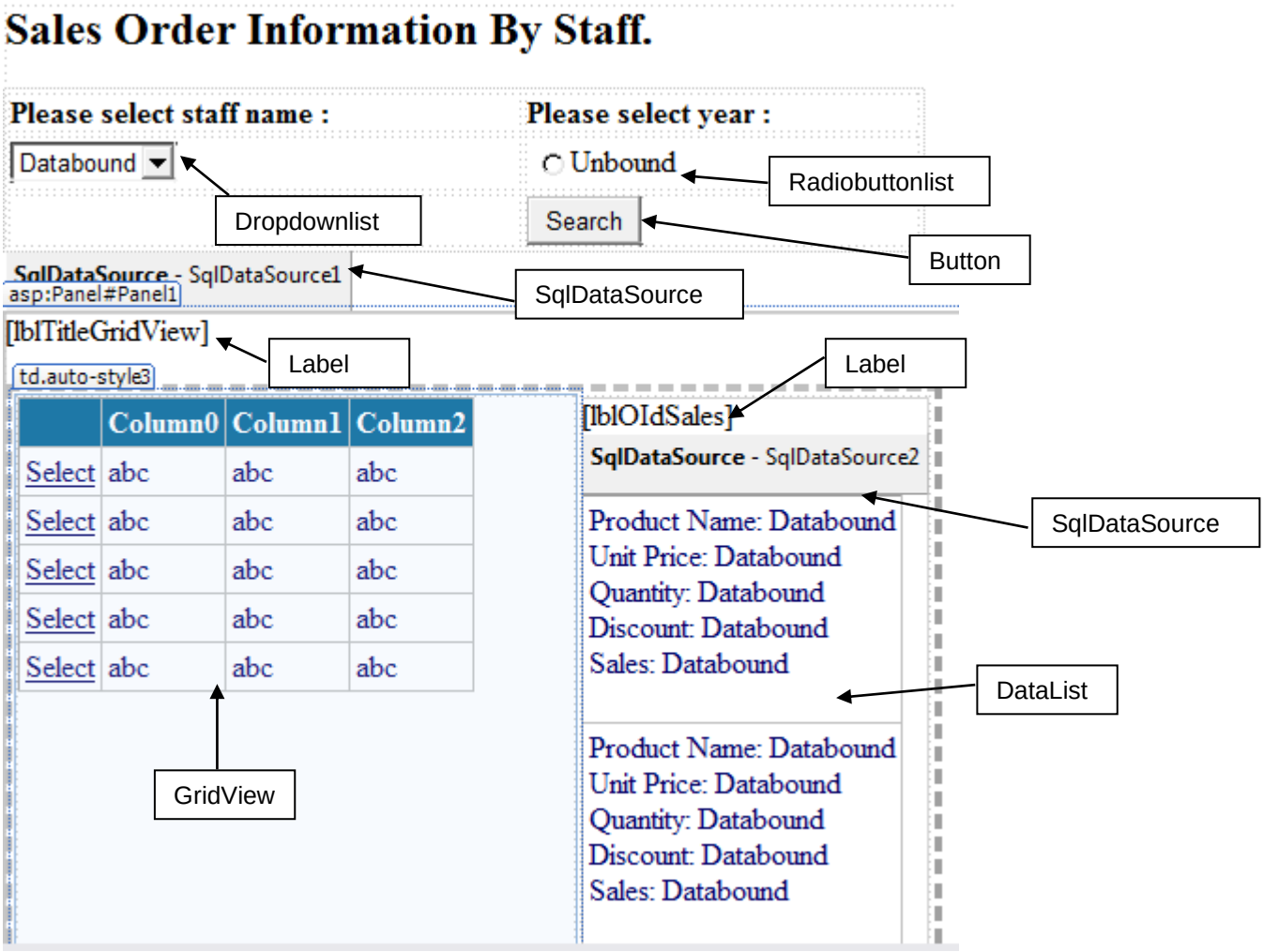


Logic-Flow:

- 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.

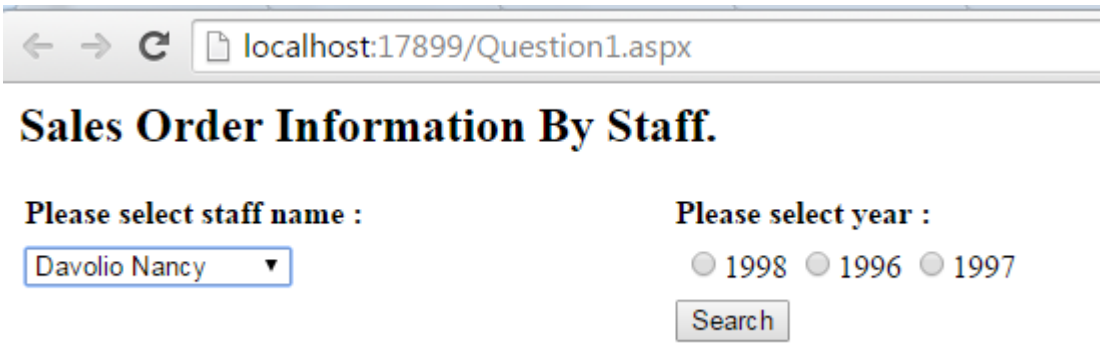
Lab Exercise 2

Design your web page as screen below.



Code the page to full fill the following requirements:

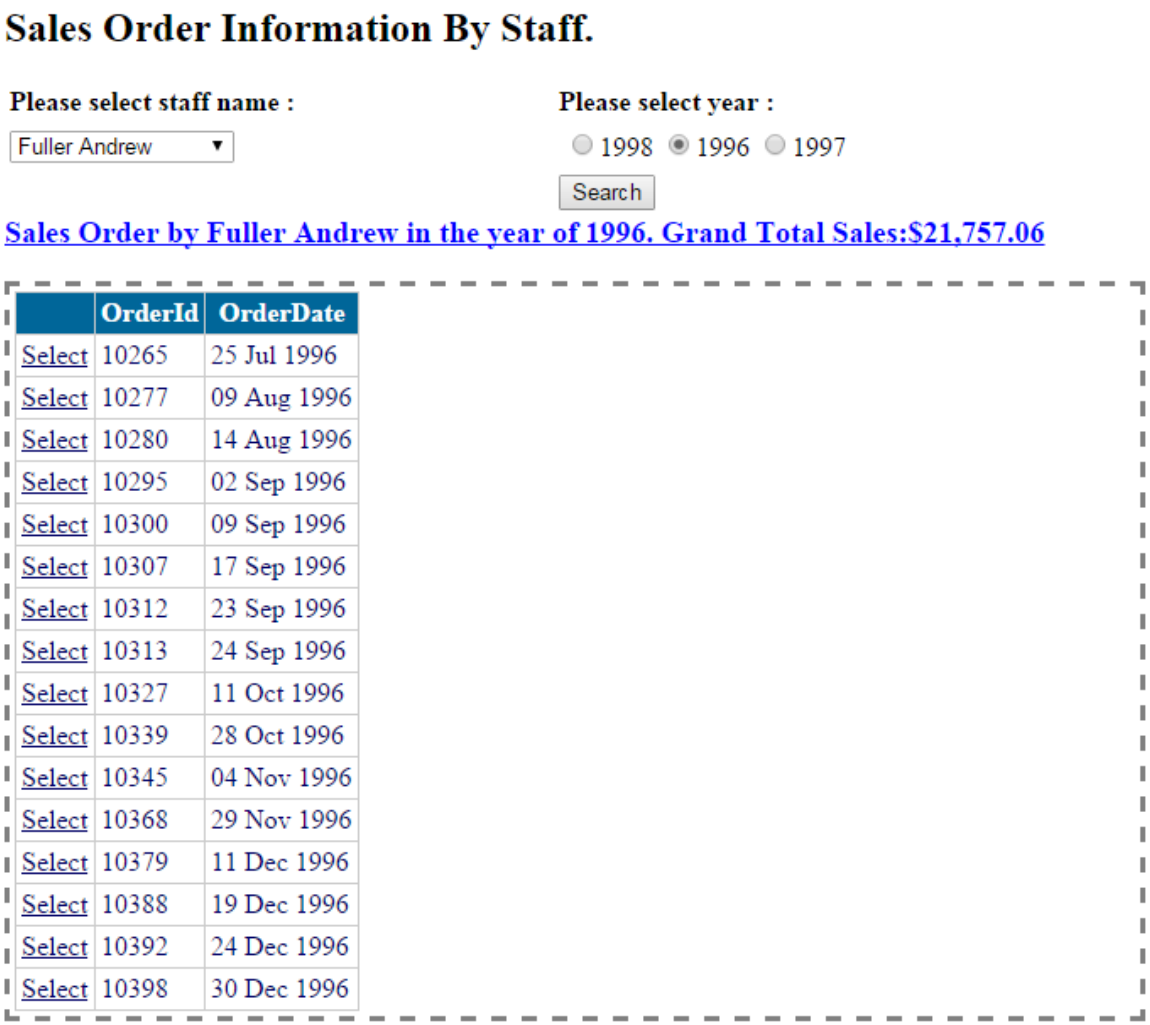
1. First Load, only display the `dropdownlist` which bound to the `SqlDataSource` control, to display staff's name from **Employees** table. The `radiobuttonlist` to display the order year should be bound using SqlDataSource Object. The information should retrieve from the **OrderDate** column from **Orders**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



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.



	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.

	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

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.