Visual Training

Of

Microsoft Visual Studio2015

Web based Applications using ASP.Net with MS Visual C-Sharp

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Chapter No.6

Interacting

With

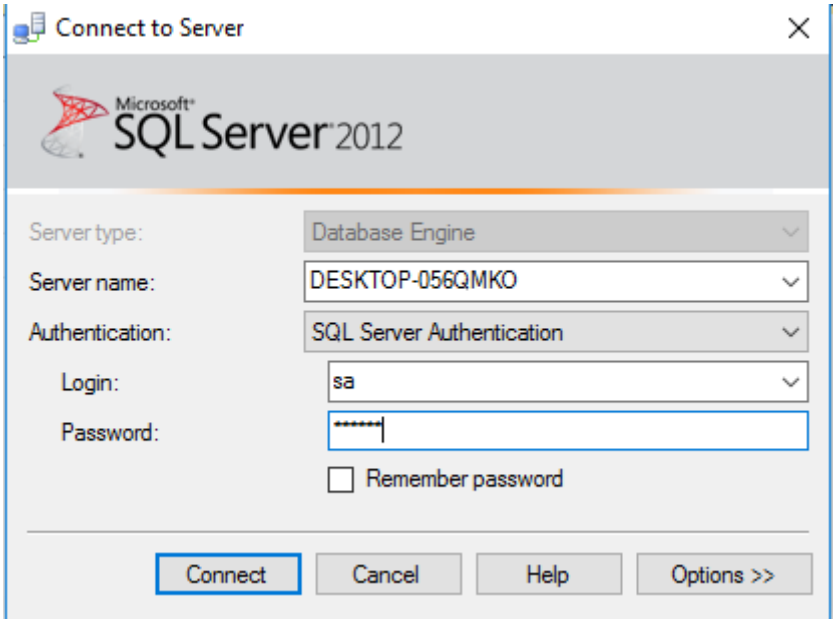
Microsoft SQL Server2012

DAY6

6.1 Database Table Design

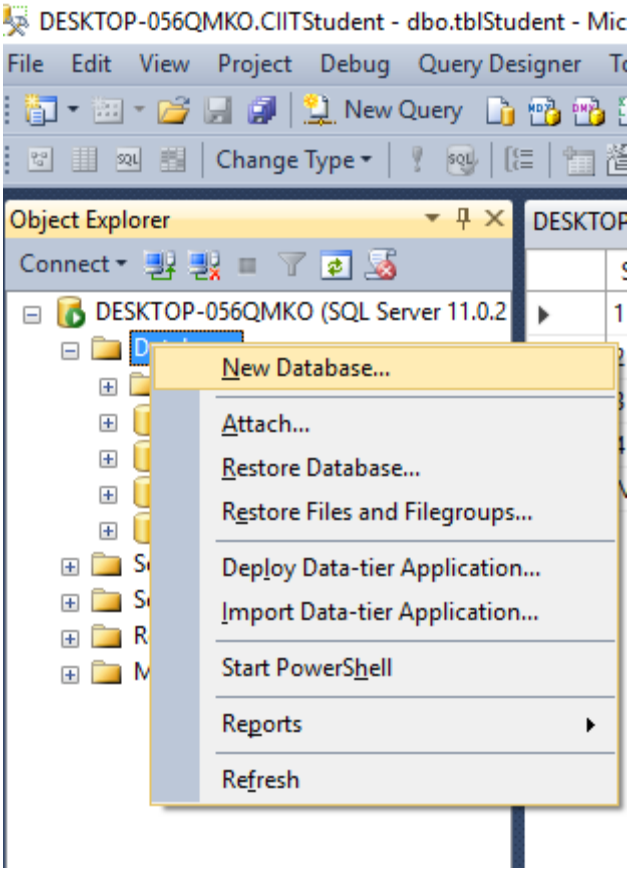
Today, we will not write any coding just we will perform these operations through ASP.Net built-in controls.

Open Microsoft SQL Server2012 Management Studio. Connect to SQL Server as shown here

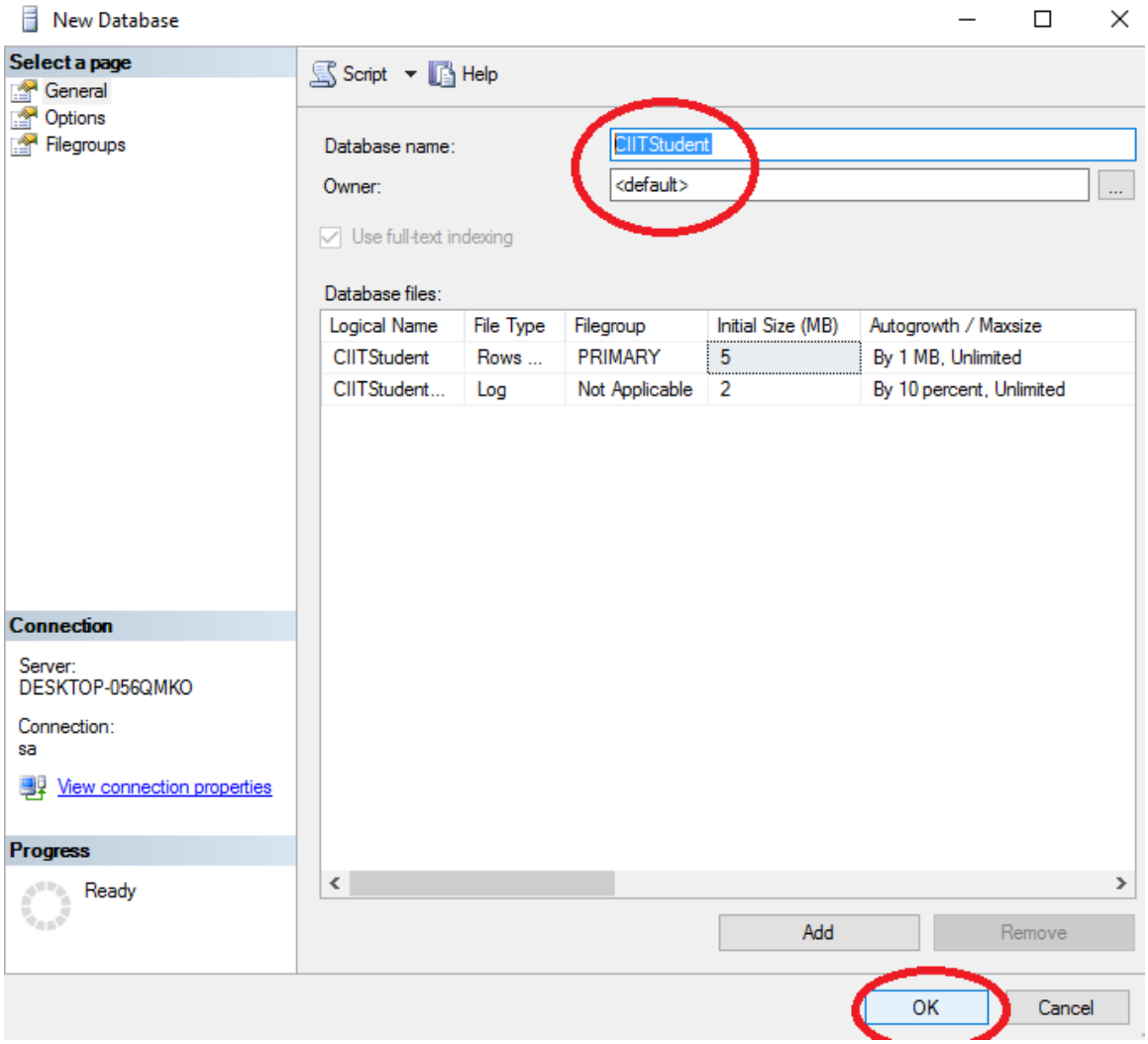


Server Name is the name of instance of SQL Server installed on the system. Here, we are logged into using SQL Server Authentication with **User ID** = sa and **Password** = rehman

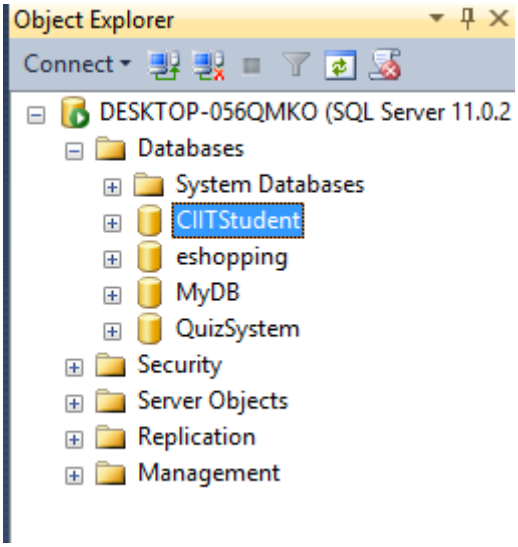
After Log in, Right Click on **Databases** and Choose **New Database** option as shown



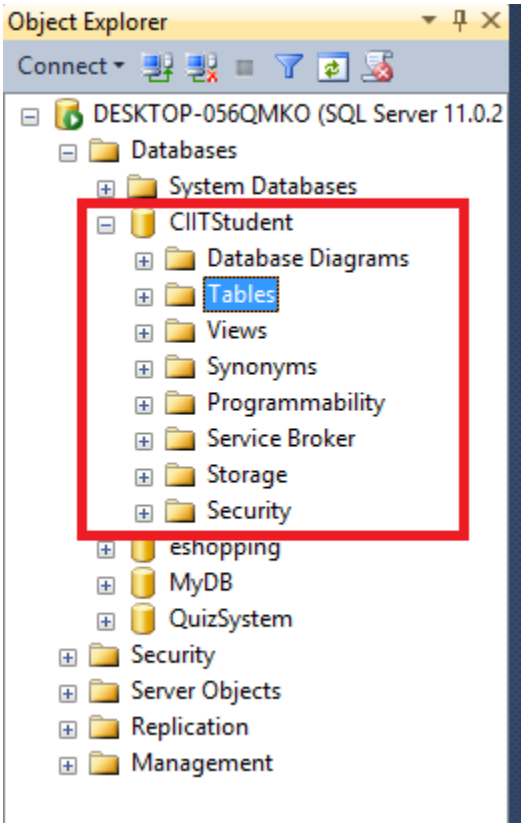
Enter Database Name as **CIITStudent** and press the **OK button**., you will notice that a new database name CIITStudent is added to SQL Server as shown



New Database is,



Expand the CIITStudent database, by Click on the Plus (+) sign near to CIITStudent database

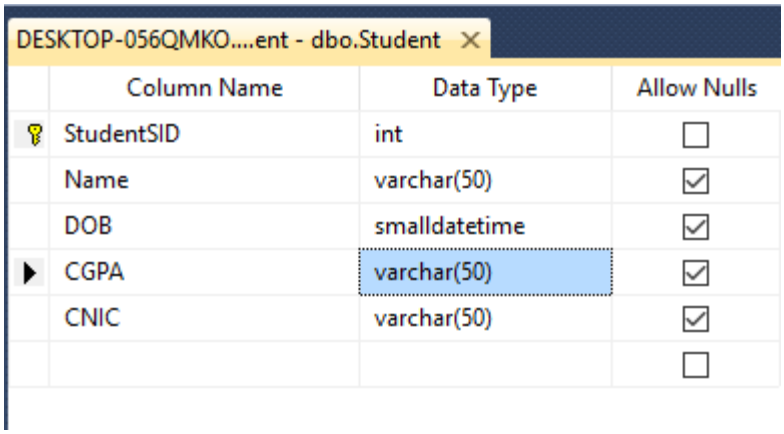


Next , add a table in this database**, by Right** click on the Tables Object, this will open the Table Design. Add the attributes to this table as shown here

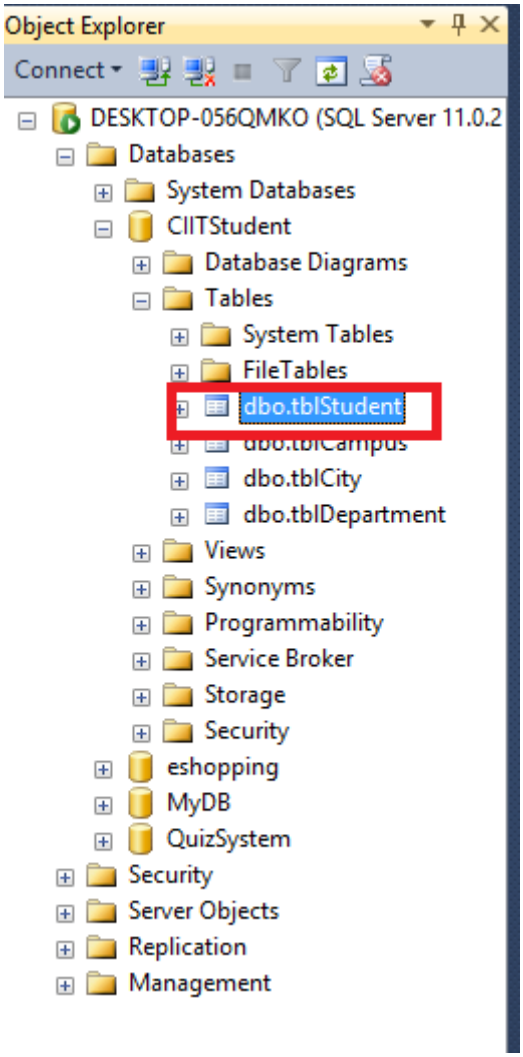
DESKTOP-056QMKO.C...- dbo.tblStudent | DESKTOP-056QMKO....ent

Column Name	Data Type	Allow Nulls
StudentSID	int	☐
Name	varchar(50)	☑
DOB	smalldatetime	☑
CGPA	varchar(50)	☑
CNIC	varchar(50)	☑
		☐

Right Click on the **StudentSID** column and Choose Set as Primary Key to declare the **StudentSID** column as Primary key



Press the Save button and name table as **tblStudent.** This table will be added to the Tables object in the CIITStudent database as shwon



Add some sample data to this table as shown

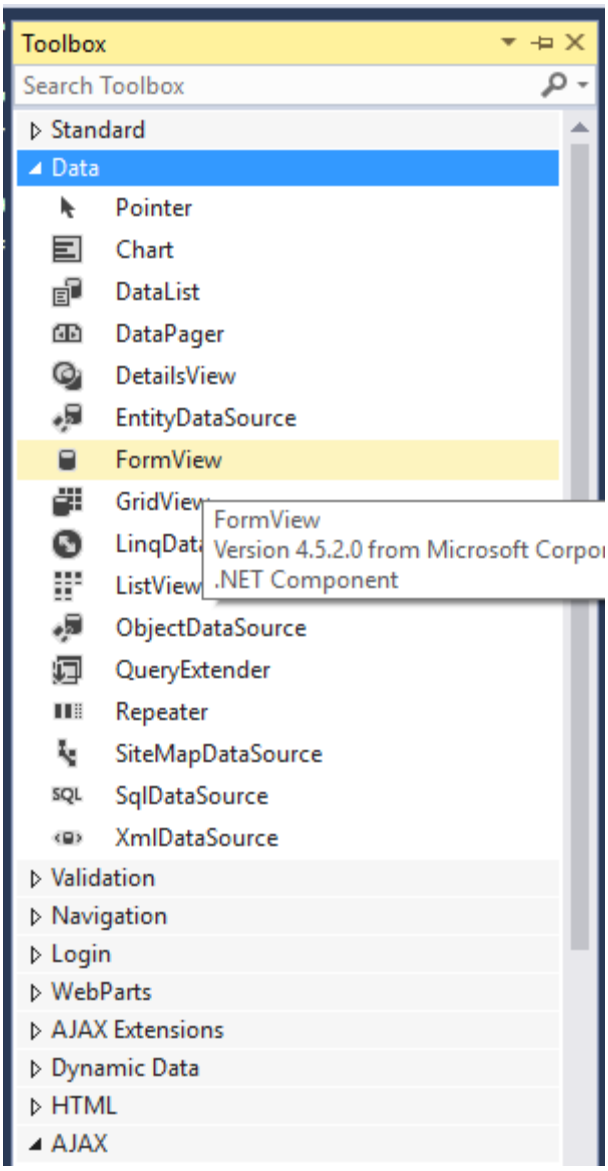
DESKTOP-056QMKO.C...- dbo.tblStudent | DESKTOP-056QMKO....ent - dbo.Student

	StudentSID	Name	DOB	CGPA	CNIC
▶	1	Asif	2000-01-01 00:0...	2.5	12101-5732440-9
	2	Tariq	2009-02-23 00:0...	3	23456-5656447-0
	3	Inam	2010-01-12 00:0...	4	34234-9089009-9
	4	Sajida	2003-01-31 00:0...	3	23234-9087789-3
*	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*

4.2 Connecting Database to ASP.Net Data Controls

Now, turn into **Visual Studio2015** and perform the following tasks.

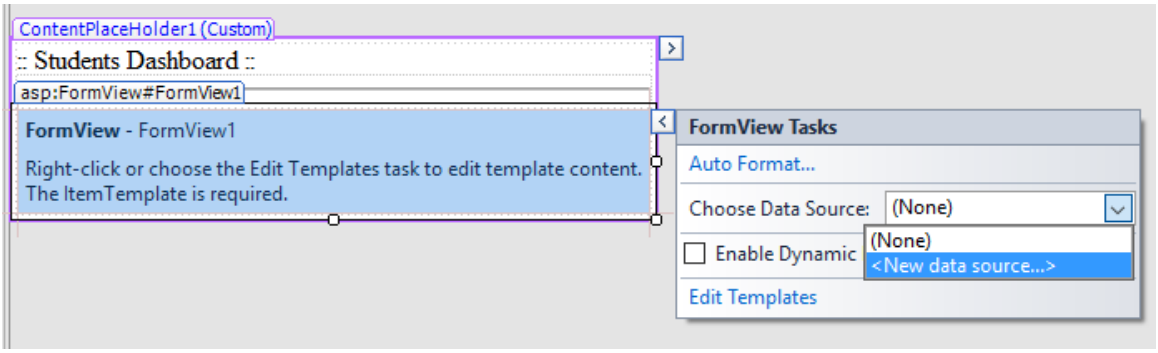
Add a new Page and name it to **Student**. Look for FormView Control in the Data Tab as shown



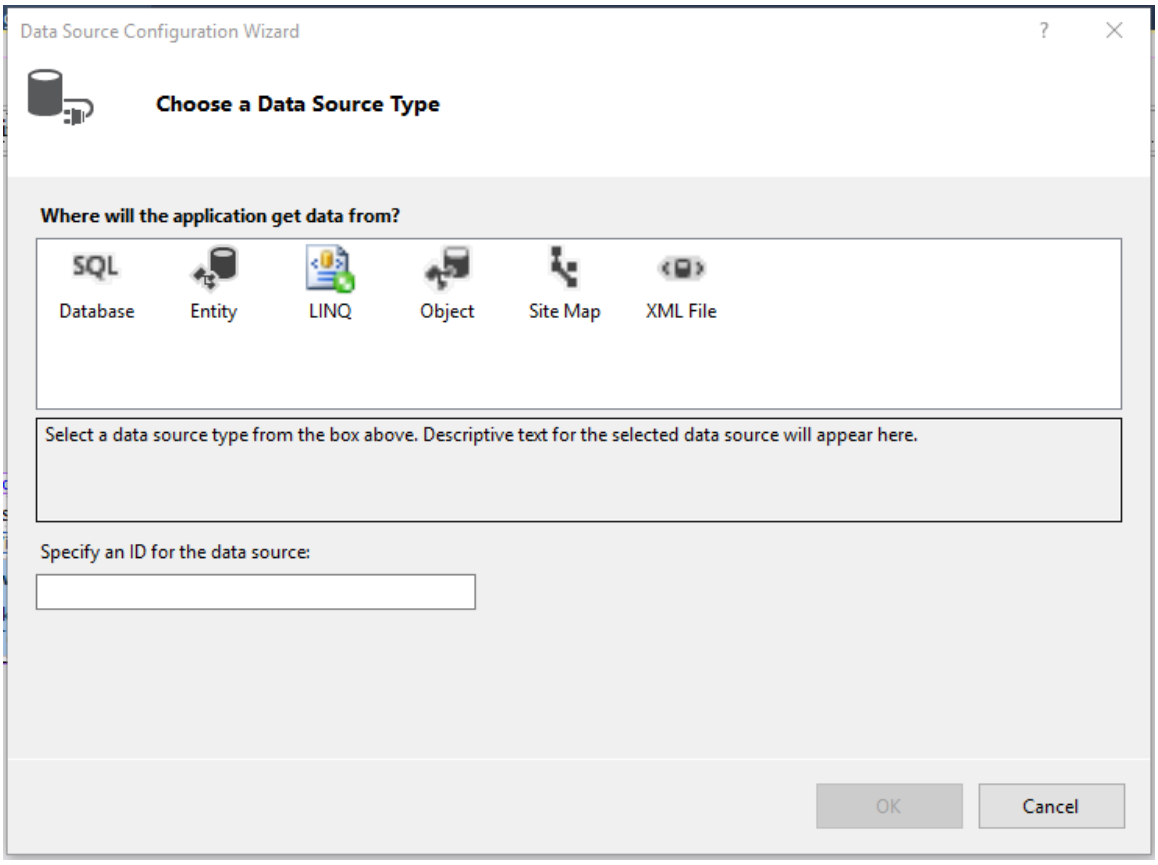
Today, we will use the ***form View control*** to scroll down the Existing database table record and edit the existing record, deleting the existing record and add new record to the table. Move to the design View. Drag the formView control and place it on the page

```
1  %@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master"
2                  CodeFile="Students.aspx.cs" Inherits="Students" %>
3  asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"
4                        Runat="Server">
5      <table>
6          <tr>
7              <td> :: Students Dashboard :: <hr /></td>
8          </tr>
9          <tr>
10             <td>
11                 <asp:FormView ID="FormView1" runat="server"></asp:FormView>
12             </td>
13         </tr>
14     </table>
15
16 /asp:Content>
```

Now, open the Form in design View as shown here. Right Click on the small arrow on the Right Top Corner of the Form View Control. From the Dropdown list choose **<New Data Source>** option as shown

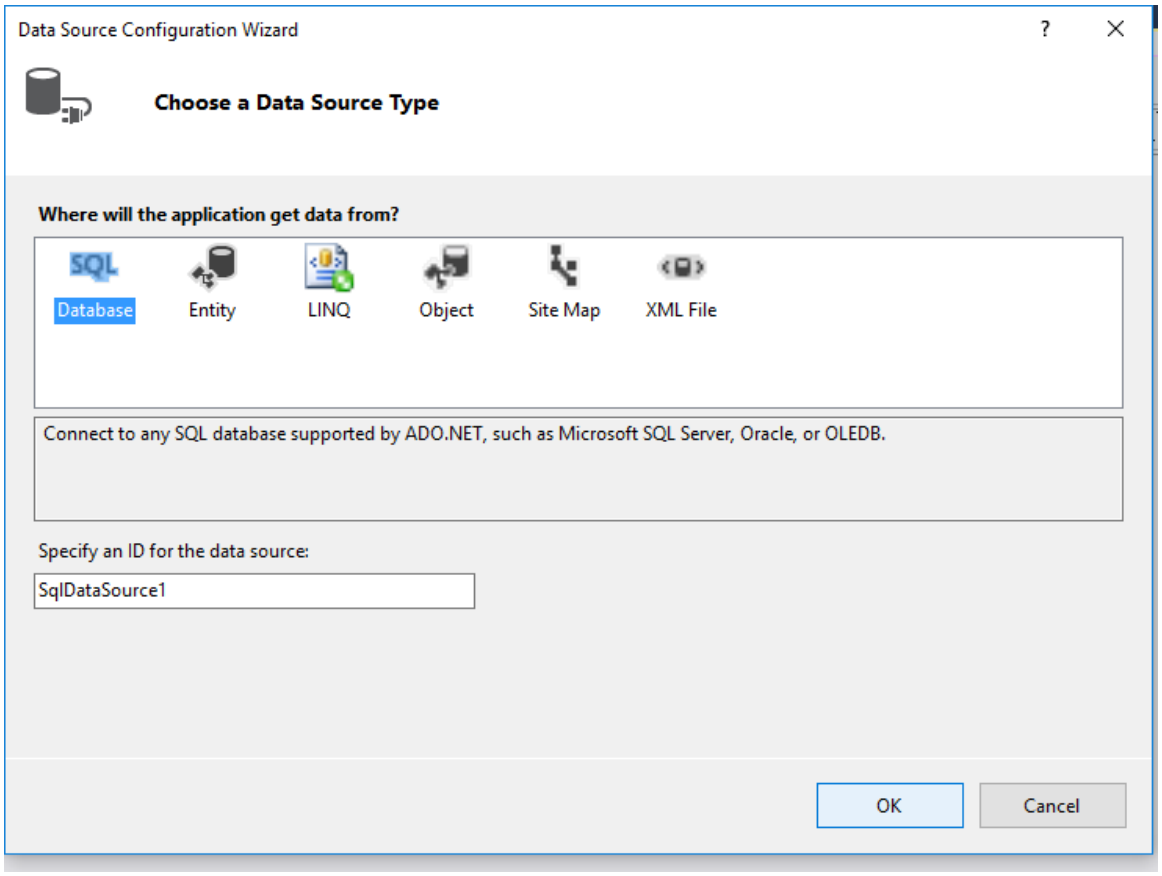


This will open the following window

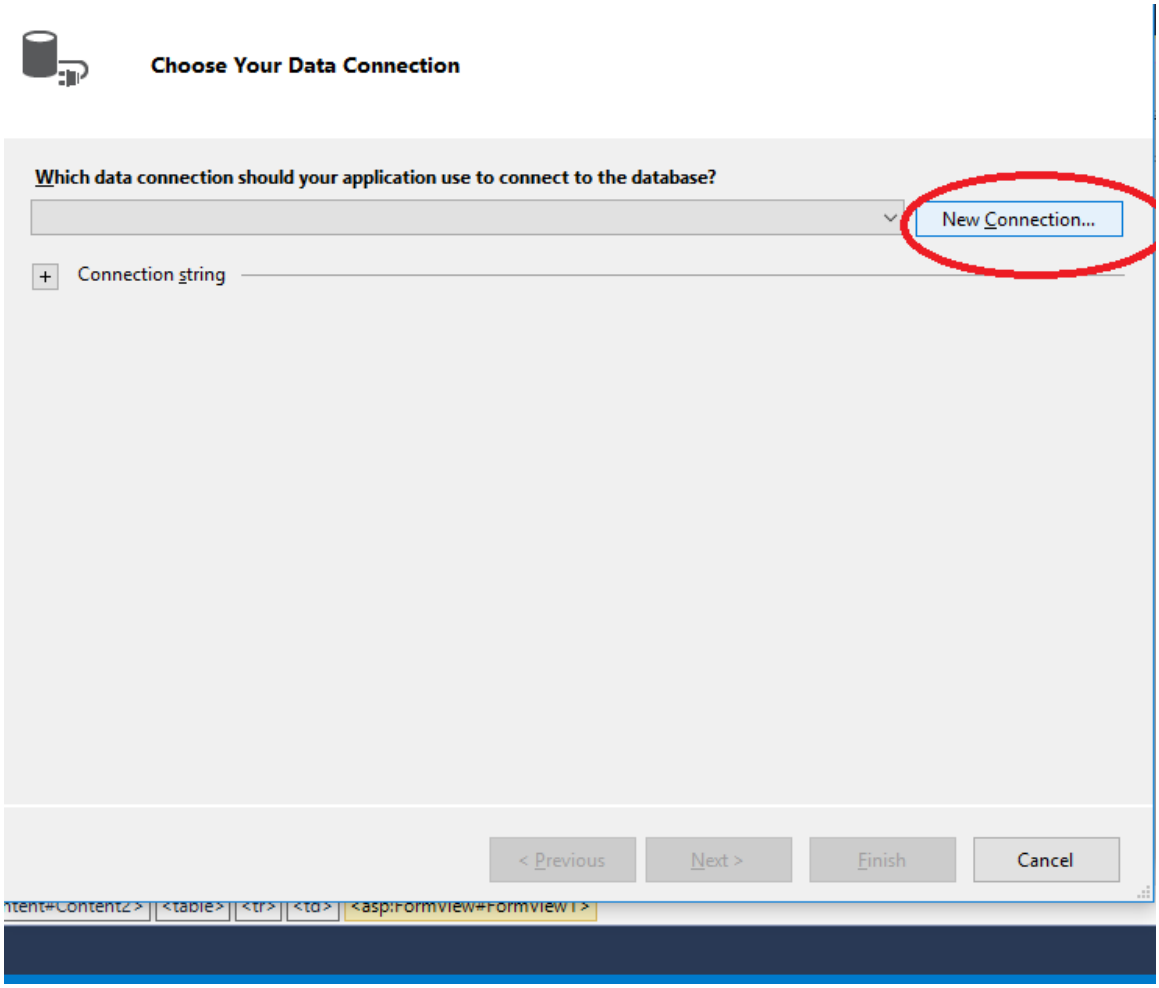


There are different types of Data Source, which can be used for Form View Control, these are included SQL database, XML etc. From this list choose SQL database

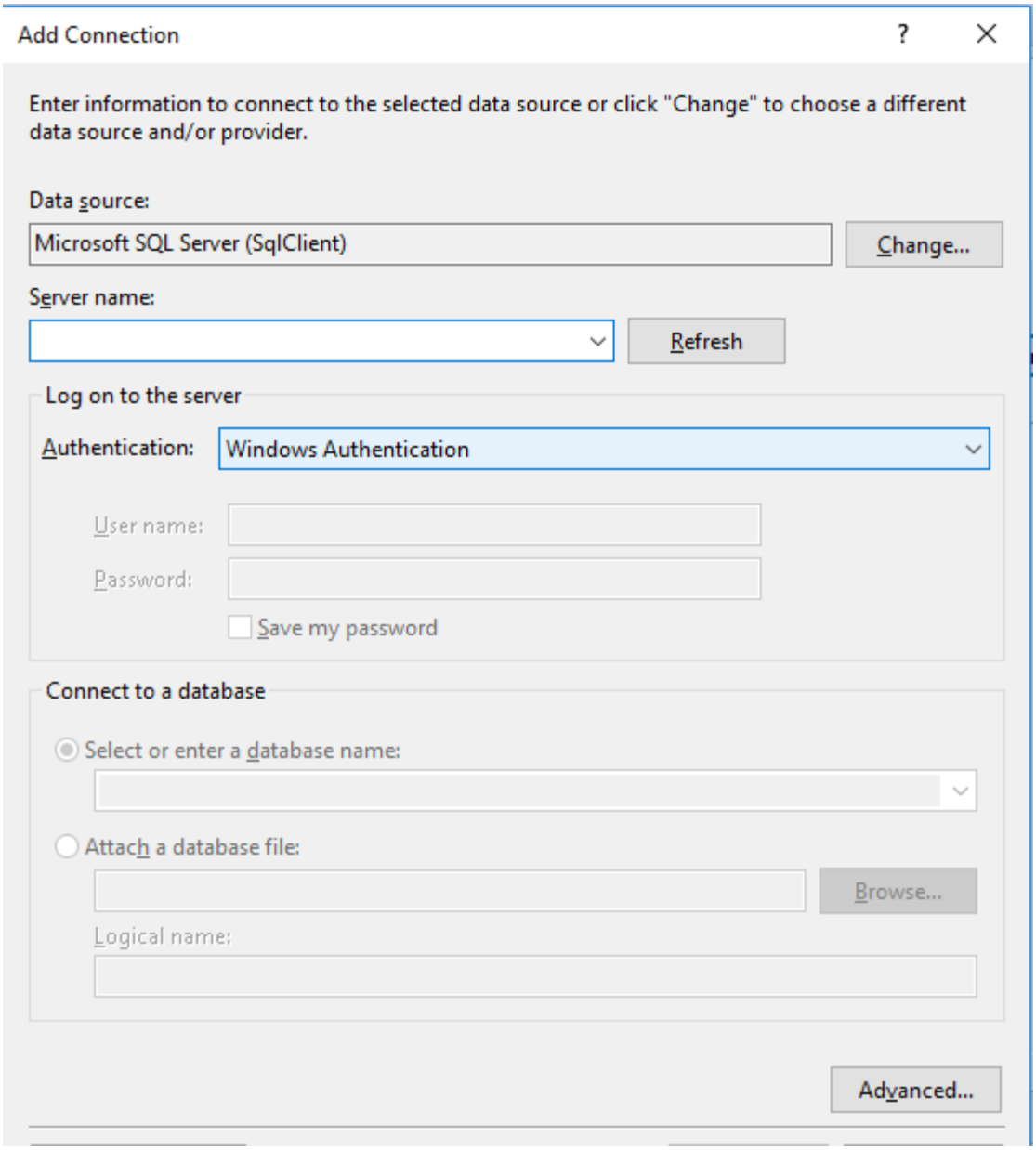
Database	Enables your application to connect and change data in database products, such as Microsoft SQL Server.



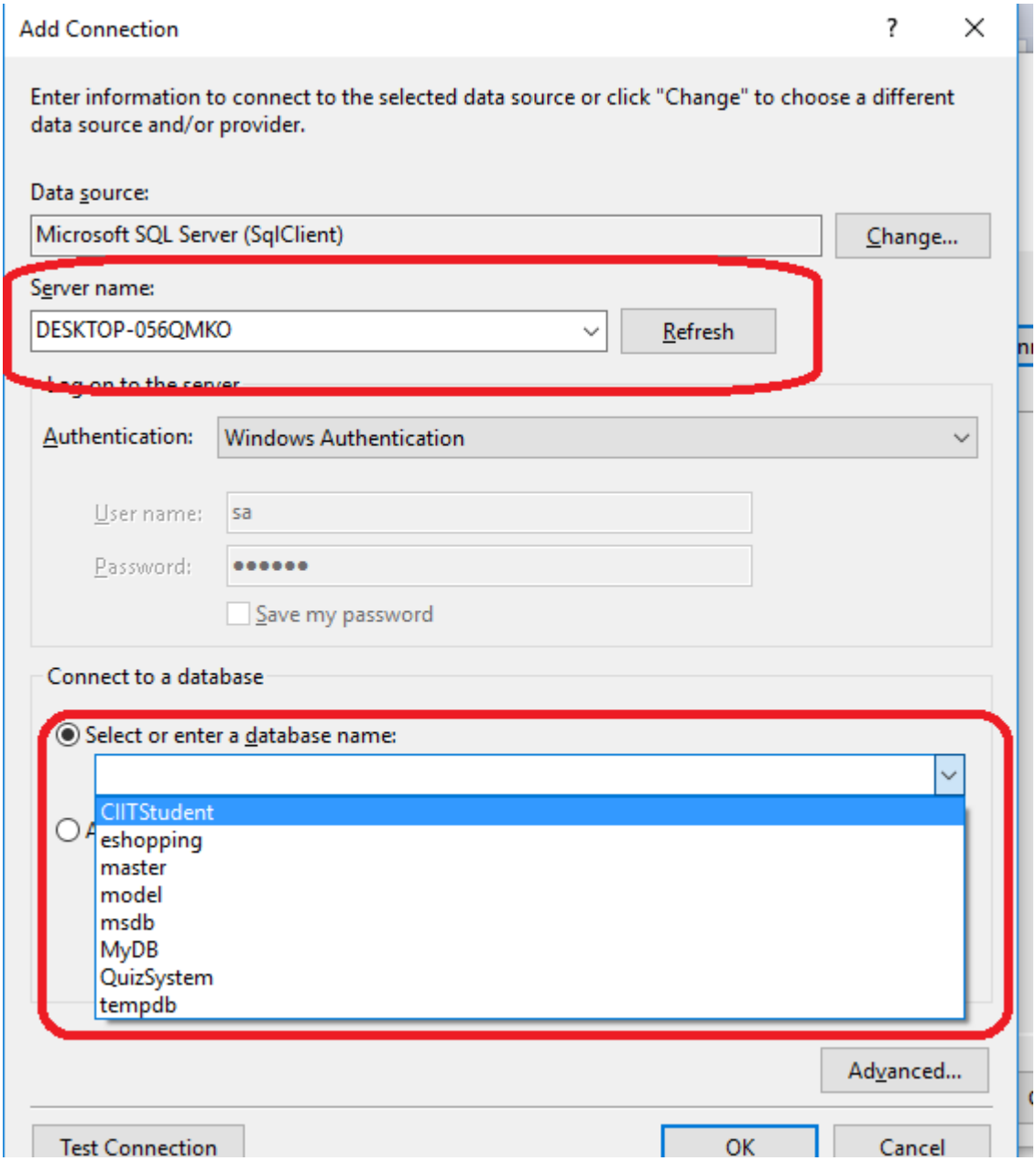
Press the **OK** button,



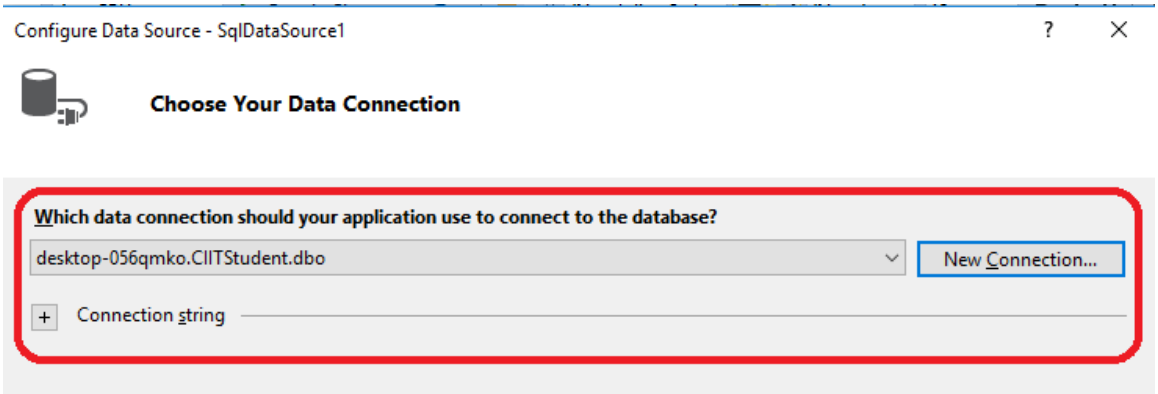
Press the **New Connection** button, you will see the **Add Connection** Window as shown



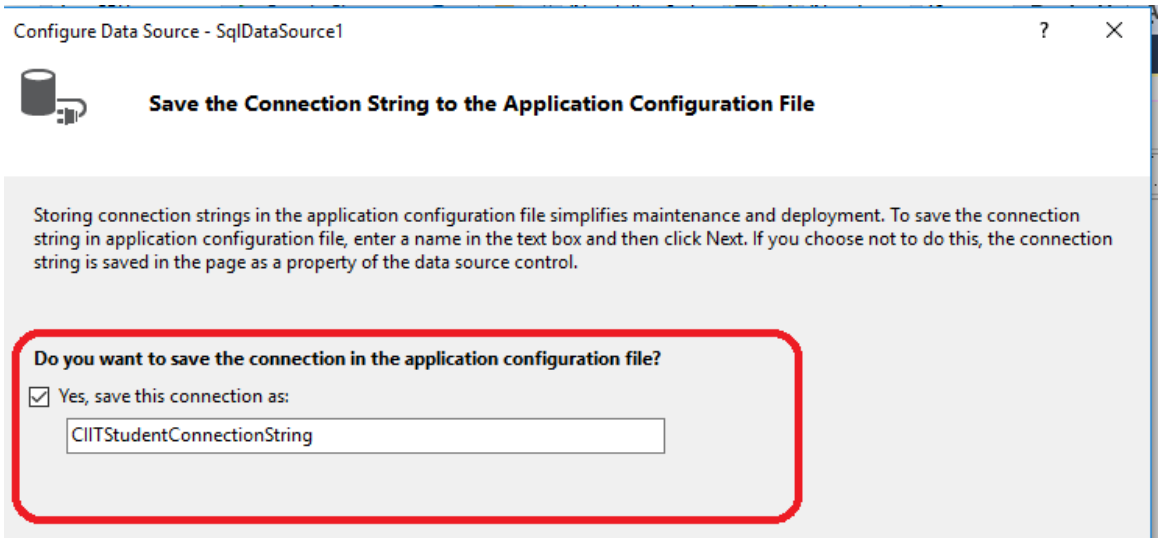
Here, Enter the **Server Name** (this is same as we used Server Name while connection to MicroSoft SQL Server2012), **User Id= sa and Password= rehman** and Select the Database and press OK



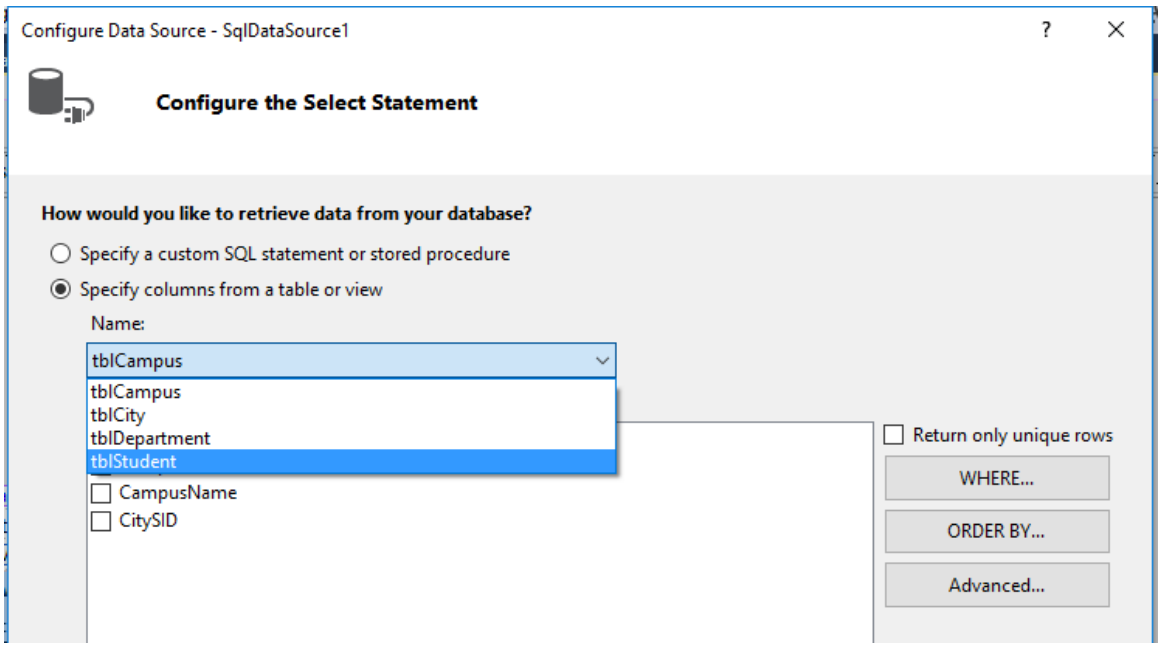
Press the Test Connection button to ensure that Connection has been established successfully. Finally, Press OK button to get the screen.



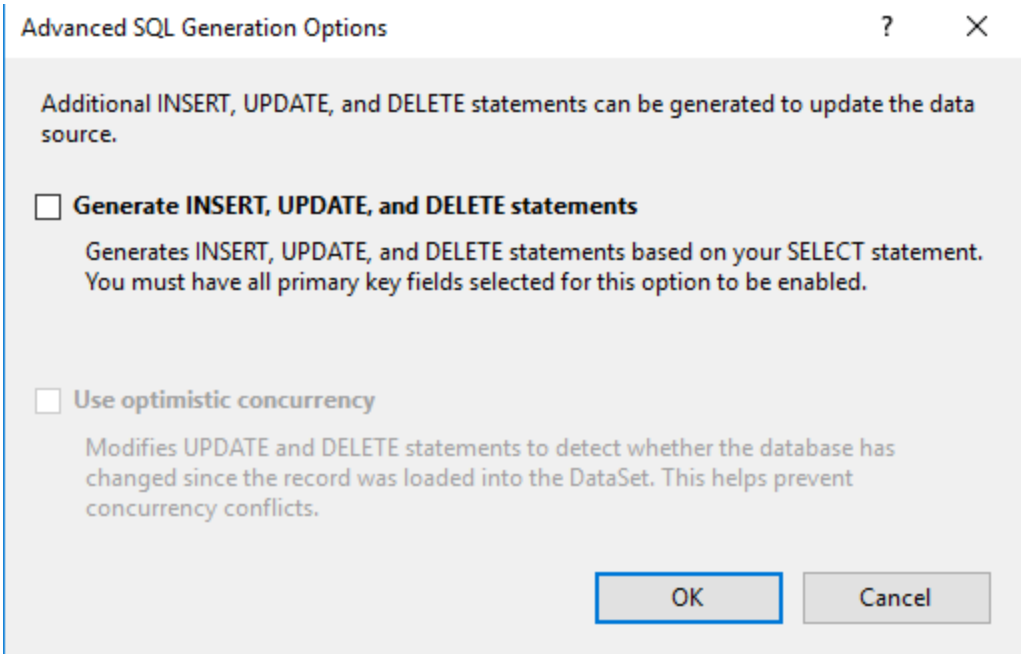
Press Next button to get, here Tick the check box to save the Connection String in the web.config file



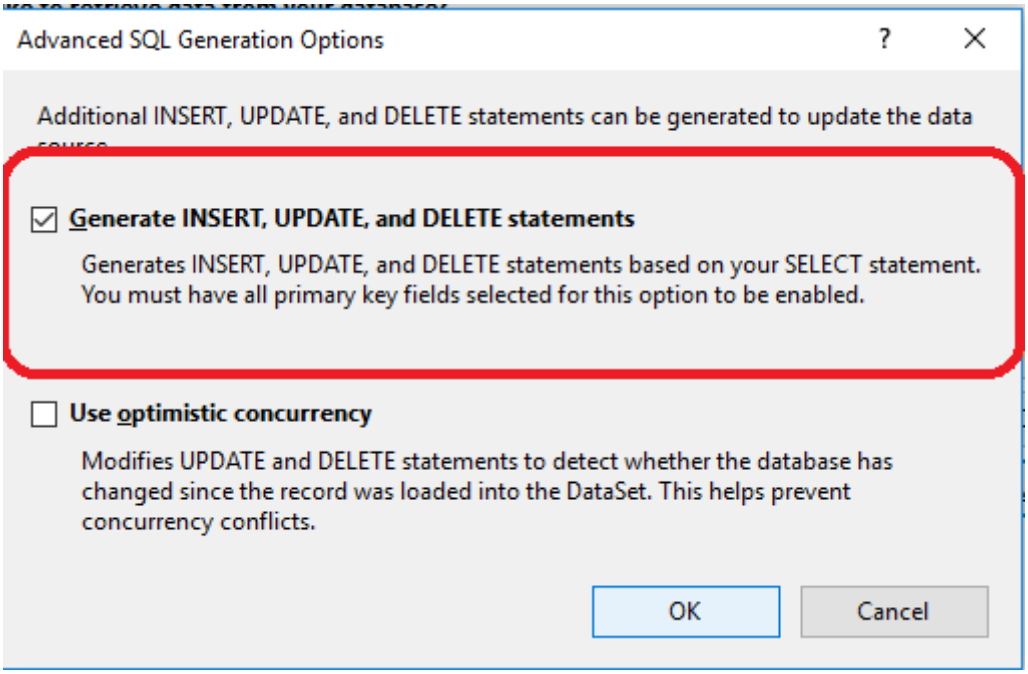
Again press the Next button, from the new window displayed choose the required table



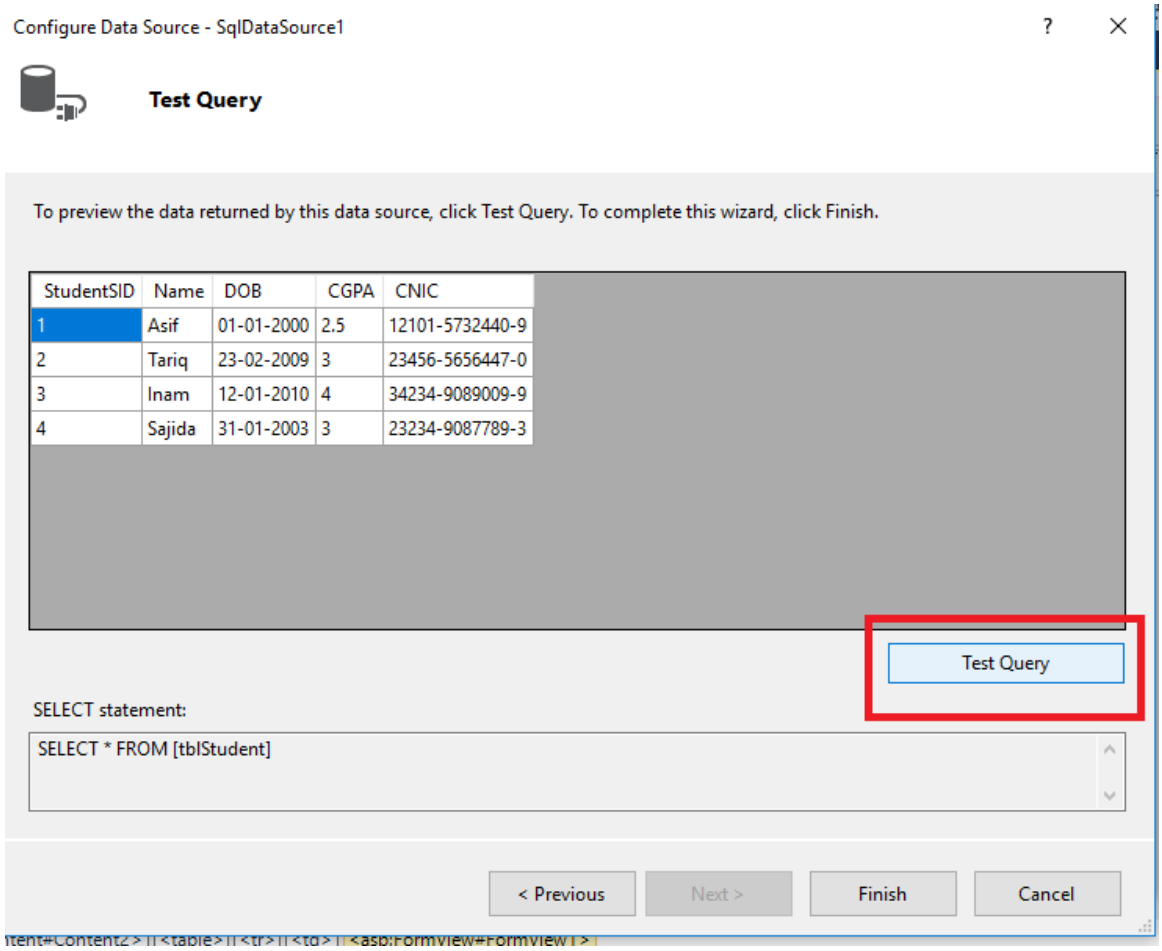
There are different Buttons such as **Where (**to filter the data**)**, **Order By (**to Sort the data**)** and **Advanced** (to generate Queries for DELETE, INSERT and UPDATE statement) button. Here , Press the Advance option button on the next screen



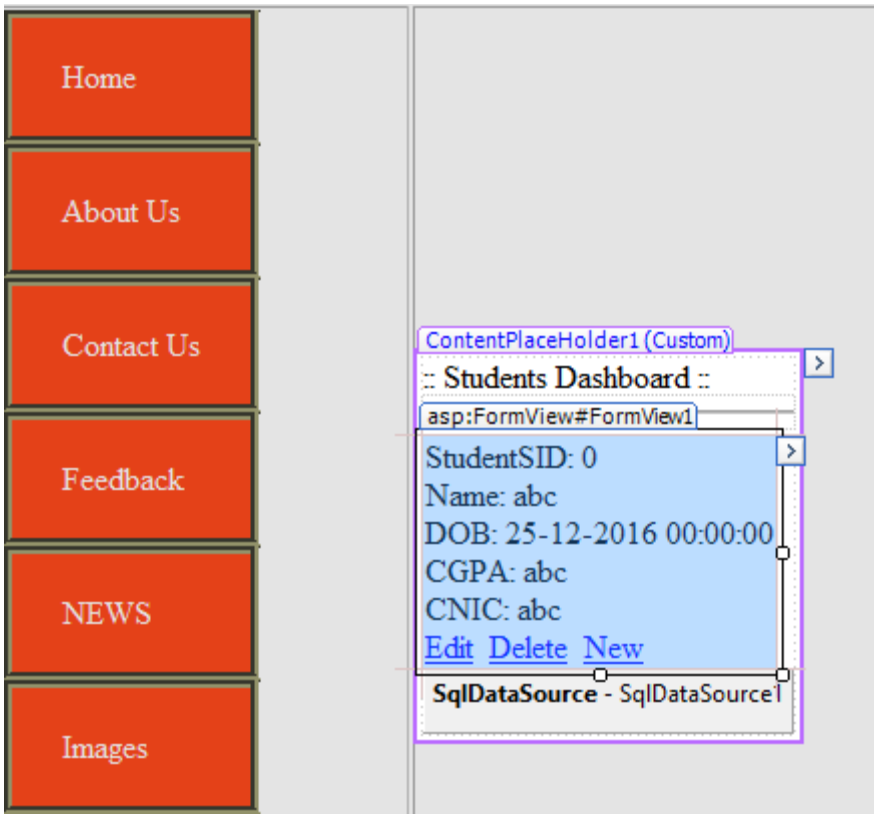
Tick the check boxes



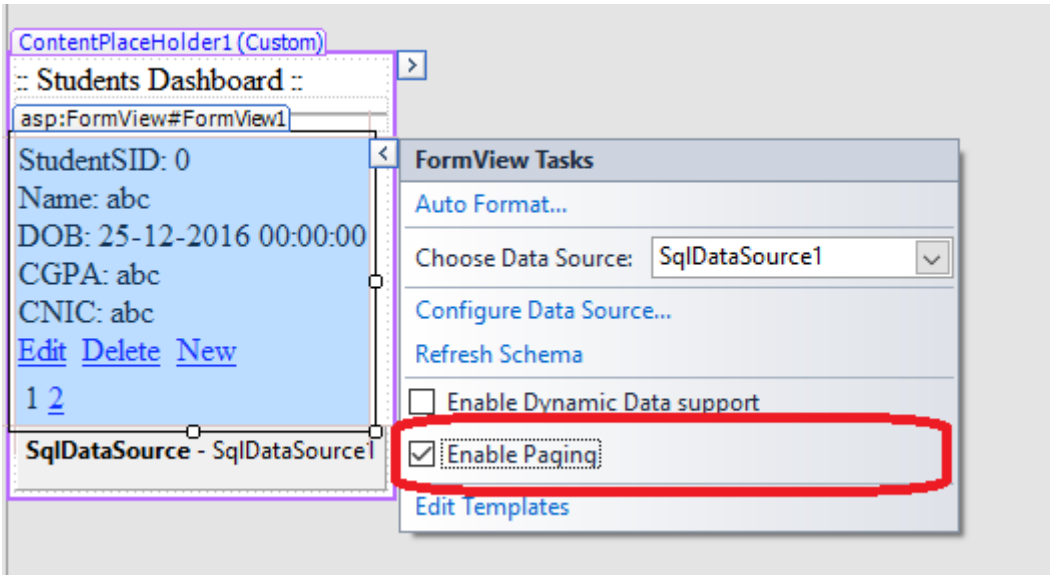
Now, Press Next button and press the Test Query button

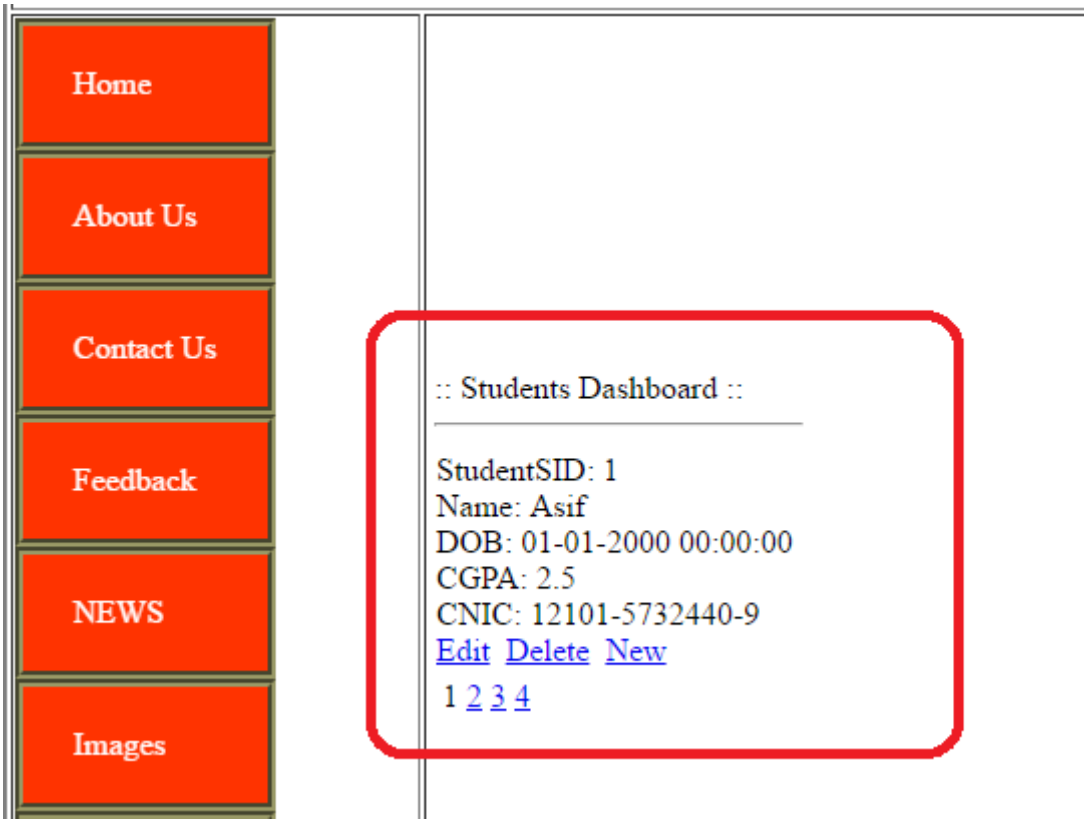


Press finish button to get the result as shown



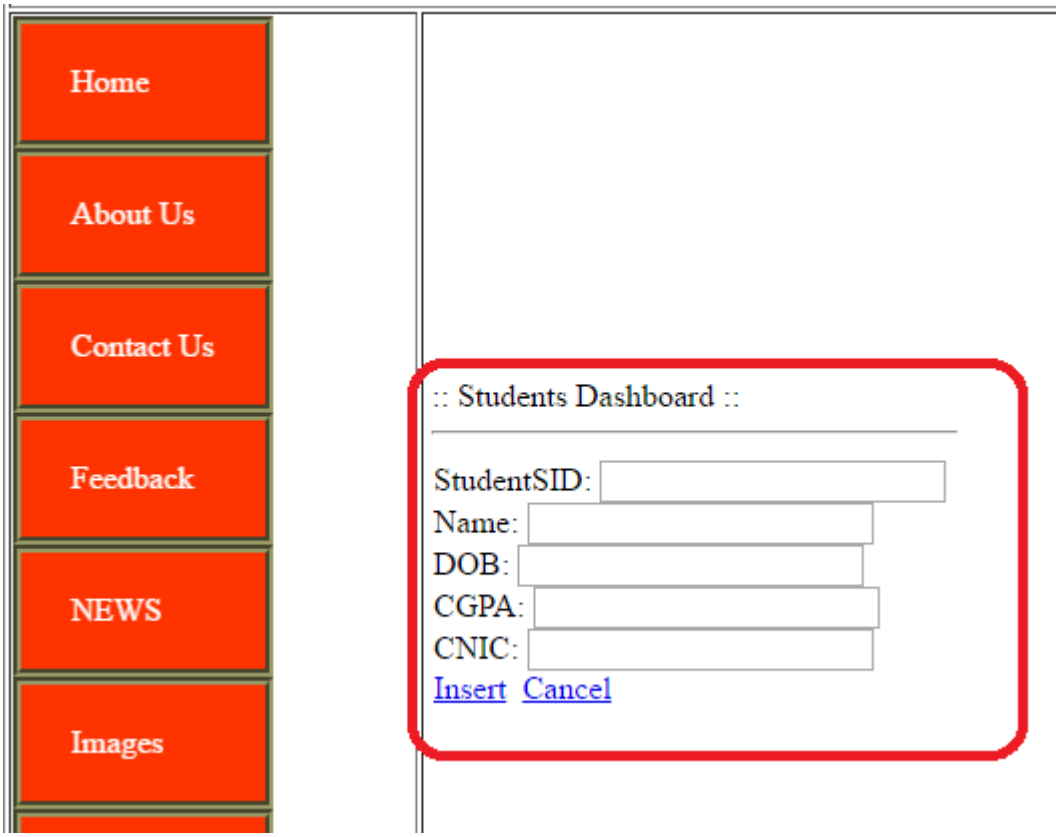
Right Click on the Right Top Corner of the Form View Control and Check the Enable Paging check box, save the site and run it…



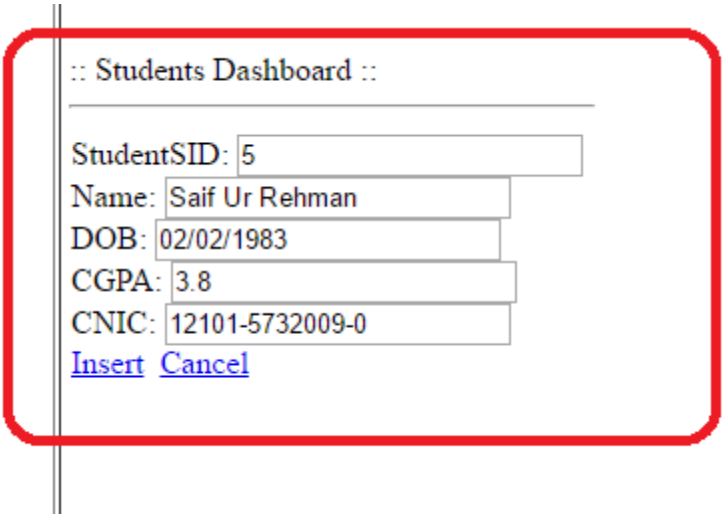


You will see the details against each Student on the result page. At the end of the record there is numbering that helps to navigate between the table records. When you press the 2 button link, you will see the next record. So, we have displayed the table records in the form view and perform the navigations.

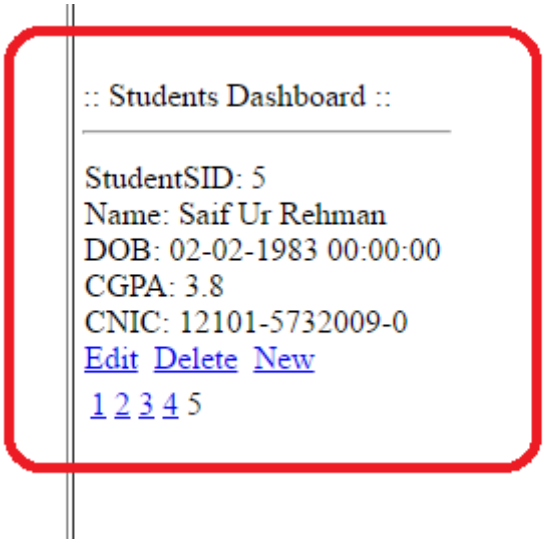
Now, press the New Link button to add a new record as shown,



Enter values and press the INSERT button



The data is added, to confirm it move to the last page, you will see the data is added as shown



Similarly press the delete button, the displayed record is deleted. Similarly, press the EDIT button, the data is displayed, change the data and it is updated as shown,

6.2 Connecting to GridView, ListView Controls to Database

Following the similar Steps, we can Bind the GridView and ListView Controls to the database; do editing the existing Record, Delete the Existing Record and Add New Record to database.

Congratulations! You have successfully Bind the FormView Control to Database Table

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