ASP.Net – SQL Server Database Connection using LINQ method.

ASP.Net Database Connection using LINQ

LINQ in ASP.Net – Language-Integrated Query

LINQ is a microsoft language-integrated Query tool used in connectivity with database server. The LINQ is available in version .Net Framework 3.5 or higher version.

we can use LINQ in visual studio 2008 or higher version of vs2008.

LINQ is a managed language that use query and table as an object. LINQ provide drag and drop system to use sql table and stored procedures to use in web application.

In this asp.net article we will learn LINQ with an example to integrate LINQ to SQL database (dbml classes) in ASP.Net using C# language.

We learn in this tutorial create dbml classes, connecting to sql server database, bind Table and Stored Procedures.

Here, In this asp.net connectivity example we will learn asp.net with sql server connection using **LINQ method**. In this asp.net connectivity example we will use **Visual Studio 2010** and **SQL Server Management Studio 2008.**

ASP.Net LINQ Example Video tutorial

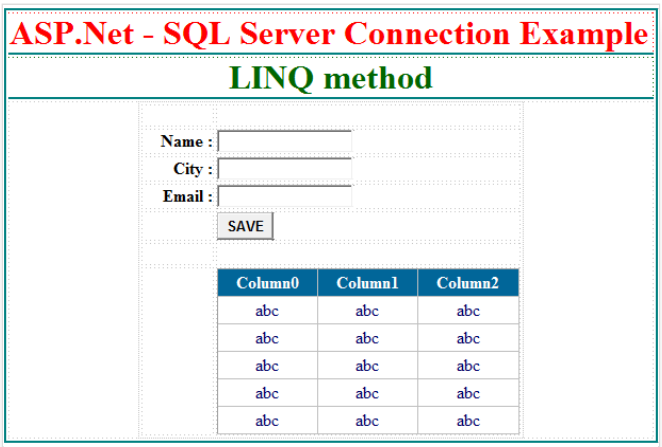
The step for connection ASP.Net and SQL Server Database.

Step 1 – Open **Visual Studio 2010** Create web application
Step 2 – Open **SQL Server Management Studio 2008** Create new database
Step 3 – Create new **Table and Stored Procedure in Database**
Step 4 – Add **LINQ to SQL Classes** (DataClasses.dbml) in **App_Code folder**.
Step 5 – Open **Server Explorer** and **Connect Database**
Step 6 – Drag and drop Sql **Table** and **Stored Procedures** to DataClasses.dbml
Step 7 – Declare **DataClassesDataContext** for connectivity

Step 1 – Open **Visual Studio 2010** Create web application

Create New web application in visual studio 2010 and design a web form with three Textbox Control, one Button control and a GridView control for display data.

Here, we first Insert Data to SQL-Server and then retrieve data and display data in to



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Step 2 – Open **SQL Server Management Studio 2008** Create new database

In our previous sql tutorials we have already learned to CREATE DATABASE in sql server management studio 2008.
In this ASP.Net LINQ example we have created new database in sql server 2008 with table and stored procedure.

> Database Name = MyExample

Step 3 – Create new **Table and Stored Procedure in Database**

After creating database create table and create stored procedure for insert data and select data.
learn about CREATE STORED PROCEDURE in sql server management studio 2008.

> Database Name = MyExample
> Table Name = UserMst
> Select Stored Procedure = USERMST_SELECT

The sql USERMST_SELECT stored procedure :

```
CREATE PROCEDURE [dbo].
[USERMST_SELECT]
AS
BEGIN
SELECT * FROM UserMst
END
```

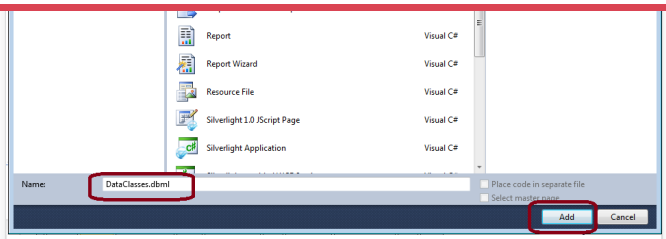
The sql USERMST_INSERT stored procedure :

```
CREATE PROCEDURE [dbo].
[USERMST_INSERT]
@NAME AS NVARCHAR(256),
@CITY AS NVARCHAR(256),
@EMAIL AS NVARCHAR(256)
AS
BEGIN
INSERT INTO UserMst
VALUES(@NAME,@CITY,@EMAIL)
END
```

Step 4 – Add **LINQ to SQL Classes** (DataClasses.dbml) in **App_Code folder**.

Now, After design web form **Right Click on Solution Explorer —> Add New Item —> LINQ to SQL Classes**

Add LINQ to SQL Classes with name **DataClasses1.dbml** in to **App_Code folder** in Solution Explorer.



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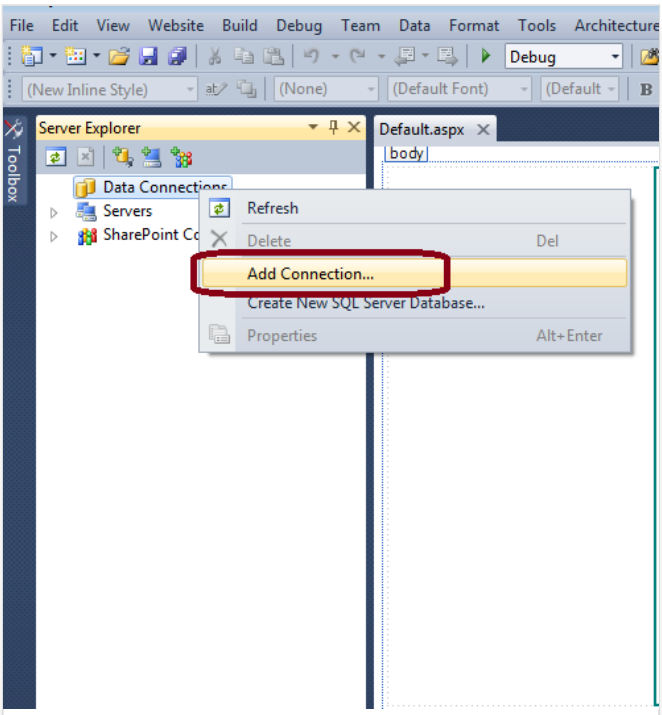
Step 5 – Open **Server Explorer** and **Connect Database**

Now, Open Server Explorer for SQL-Database connection.

Here, we have Database named **MyExample** and two stored procedure for Insert data and Select data.

Data Connection —> Add Connection select Microsoft SQL Server.



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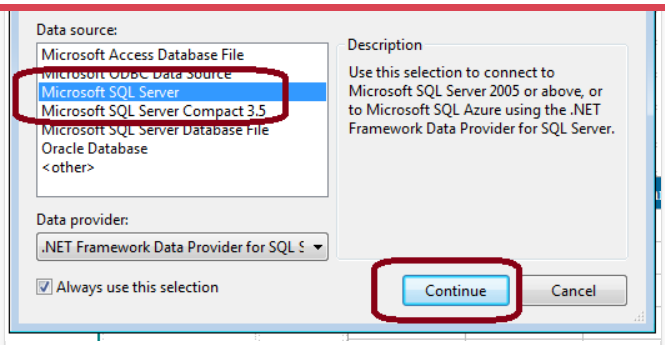
Select database server name from below screen. we have use here SQL Server,



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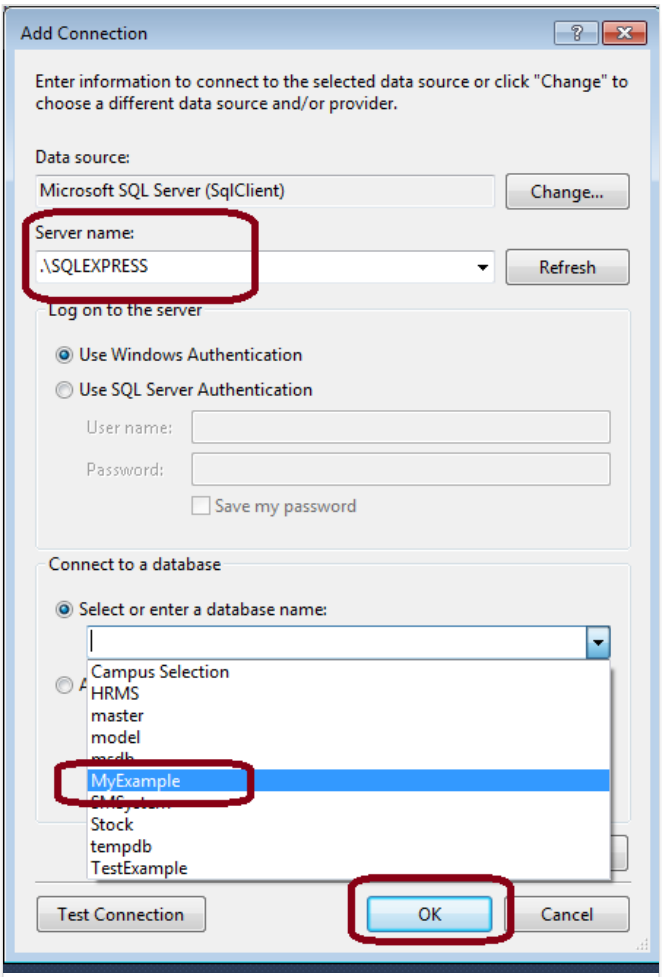
Write sql server name and select database for connection. In this asp.net example write **".\SQLExpress"** in server name option and select database "**MyExample**" in database select option.



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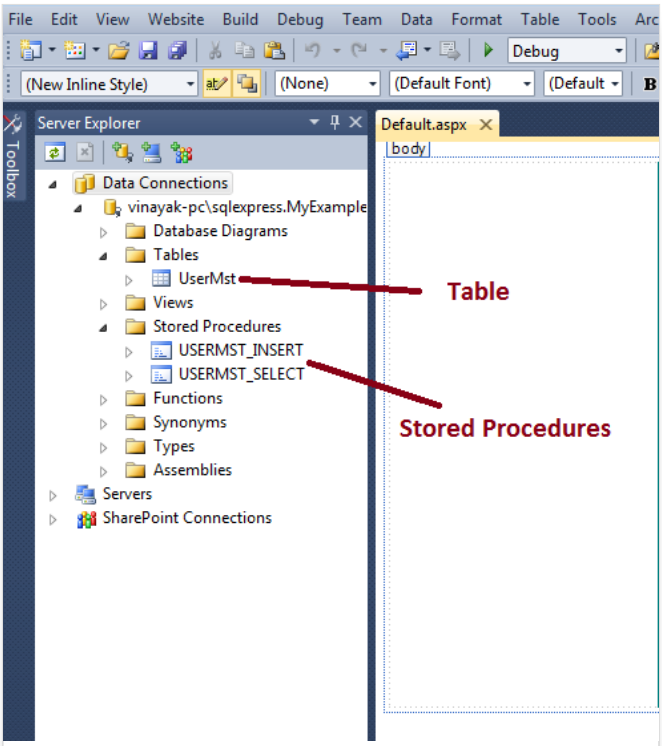
sql server management studio 2008.

> The SQL Table = UserMst
> Select Stored Procedure = USERMST_SELECT
> Insert Stored Procedure = USERMST_INSERT



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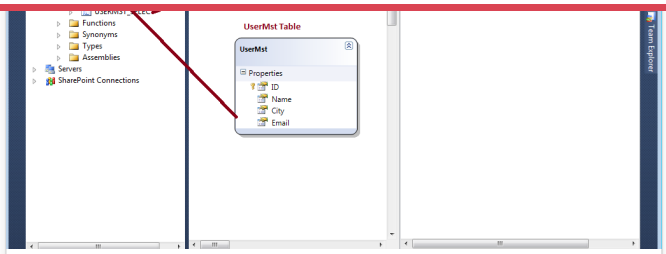
Step 6 – Drag and drop Sql **Table** and **Stored Procedures** to DataClasses.dbml

After doing this Open the LINQ to SQL Classes **DataClasses.dbml** then Drag and Drop SQL Table and SQL strode procedure in it like shows below screen.



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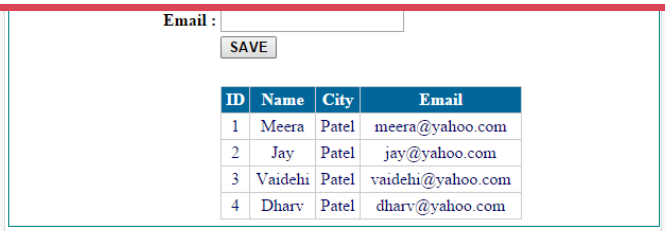
Step 7 – Declare **DataClassesDataContext** for connectitivty

Now, write the C# server side code for Insert data to sql server and then Select data from SQL Server.

write below code on Button Click event at code behind page:

```
DataClassesDataContext ctx = new DataClassesDataContext();
ctx.USERMST_INSERT(txtname.Text, txtcity.Text, txtemail.Text);
GridView1.DataSource = ctx.USERMST_SELECT();
GridView1.DataBind();
```

The output of ASP.Net LINQ Connection Example.



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I hope this LINQ connectivity with ASP.Net and SQL Server will help you..

Download ASP.Net LINQ Source Code Example

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1 thought on "ASP.Net – SQL Server Database Connection using LINQ method."

Hetal Kadiya says:
December 11, 2015 at 5:47 pm

Nice n Easy to understand !!

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