LINQ

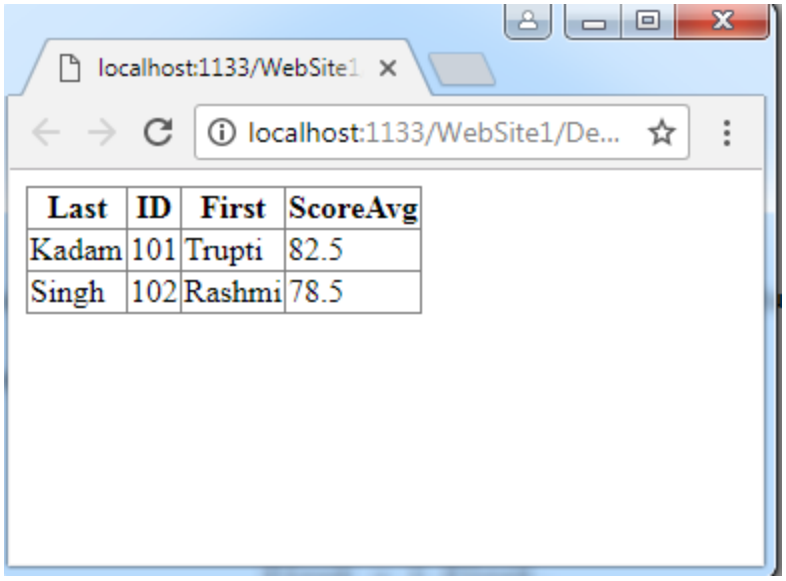
1. Write a C# program to show the data from database using LINQ(objectdatasource)

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
public class Student
{
   public string First
   {
     get;
     set;
   }
   public string Last
   {
     get;
     set;
   }
   public int ID
   {
     get;
     set;
   }
   public List<int> scores;
           public Student()
           {
           }
}
public class StudData
{
   public static List<Student> s = new List<Student>
   {
      new Student{First="Trupti",Last="Kadam",ID=101,
                scores=new List<int>{75,82,84,89}},
      new Student{First="Rashmi",Last="Singh",ID=102,
                scores=new List<int>{65,80,70,99}}
    };
}
public class StudAvg
{
   public int ID;
   public string First;
   public string Last;
   public double ScoreAvg;
```

```
public IEnumerable<int> getstudList=from Student in StudData.s select Student.ID;

public IEnumerable<StudAvg> results = from i in StudData.s
                                      where i.scores[1] > 70
                                      select new StudAvg
                                      {
                                         ID = i.ID,
                                         First = i.First,
                                         Last = i.Last,
                                         ScoreAvg = i.scores.Average()
                                      };
}
```

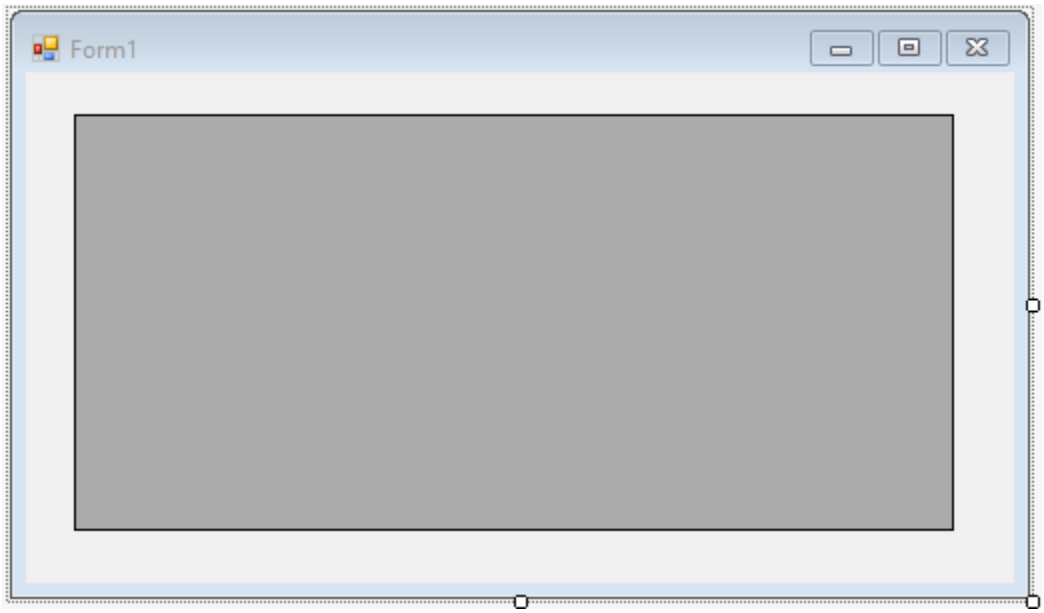
OUTPUT:



Last	ID	First	ScoreAvg
Kadam	101	Trupti	82.5
Singh	102	Rashmi	78.5

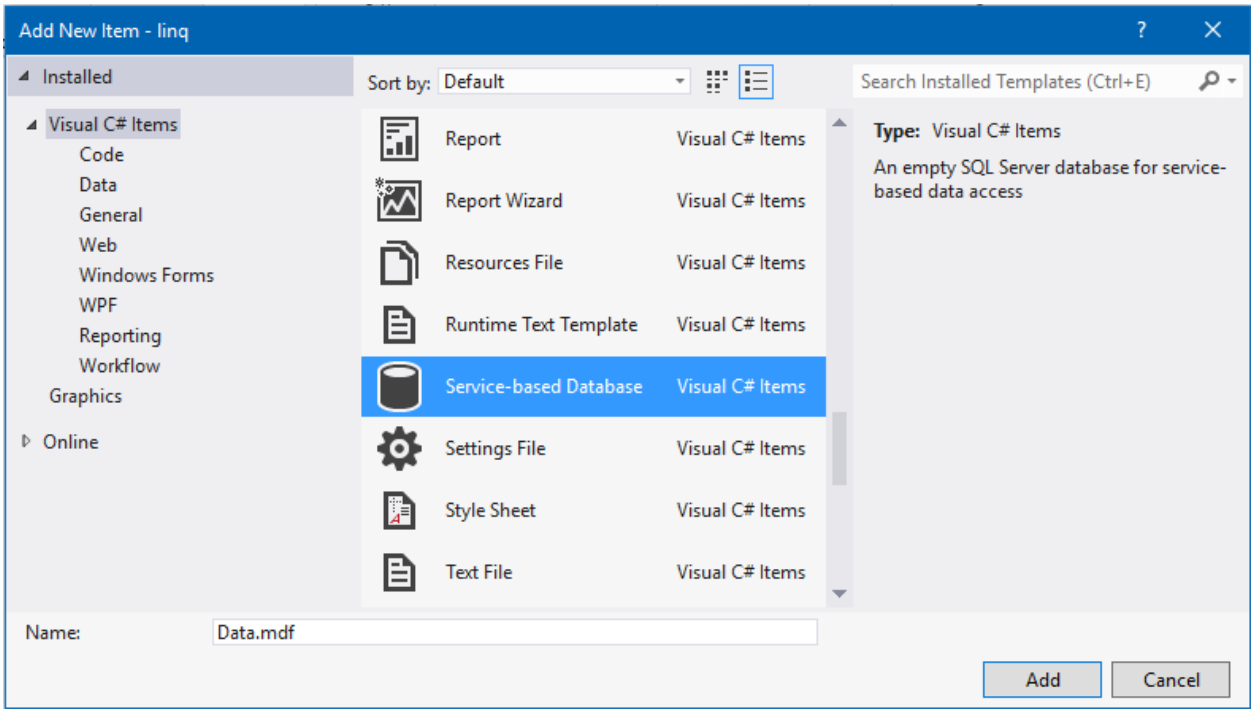
2. **Write a C# program to find Employe details from Dataset using LINQ**

Form design:

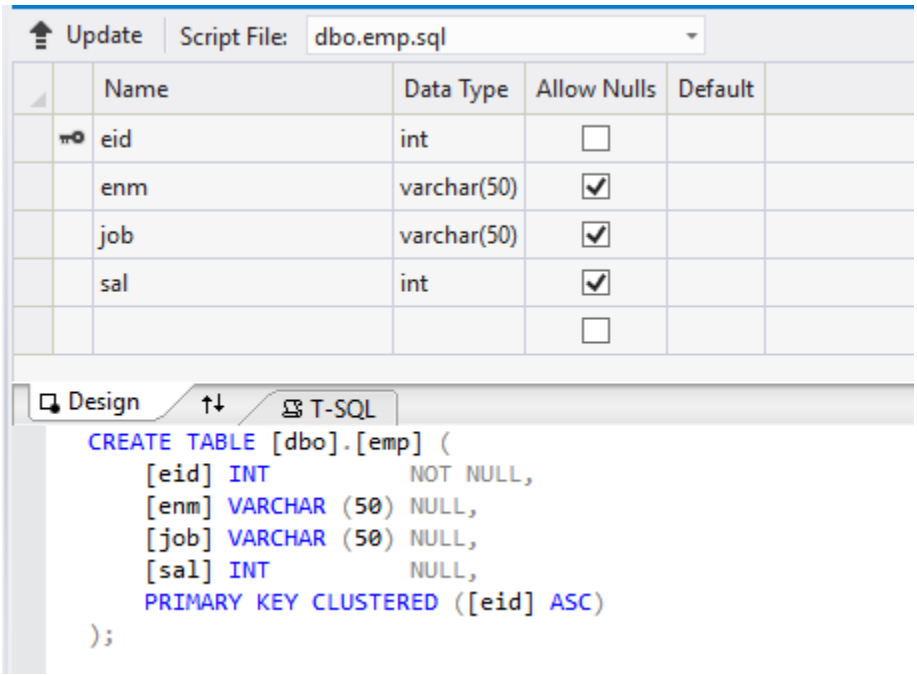


Create database:

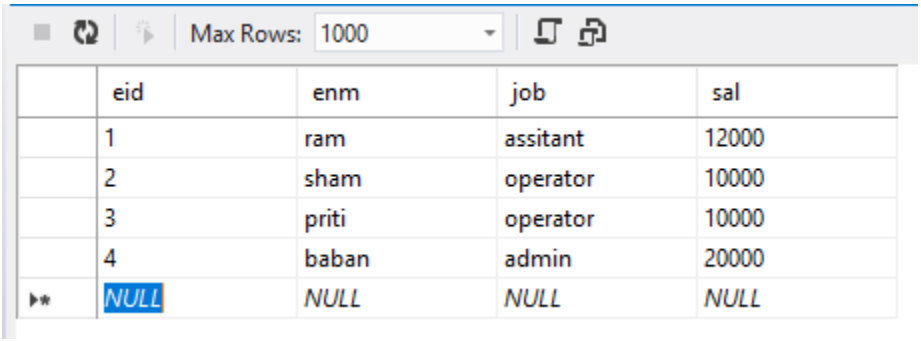
Right click on project-> add -> add new item -> service-based database



Create emp table:



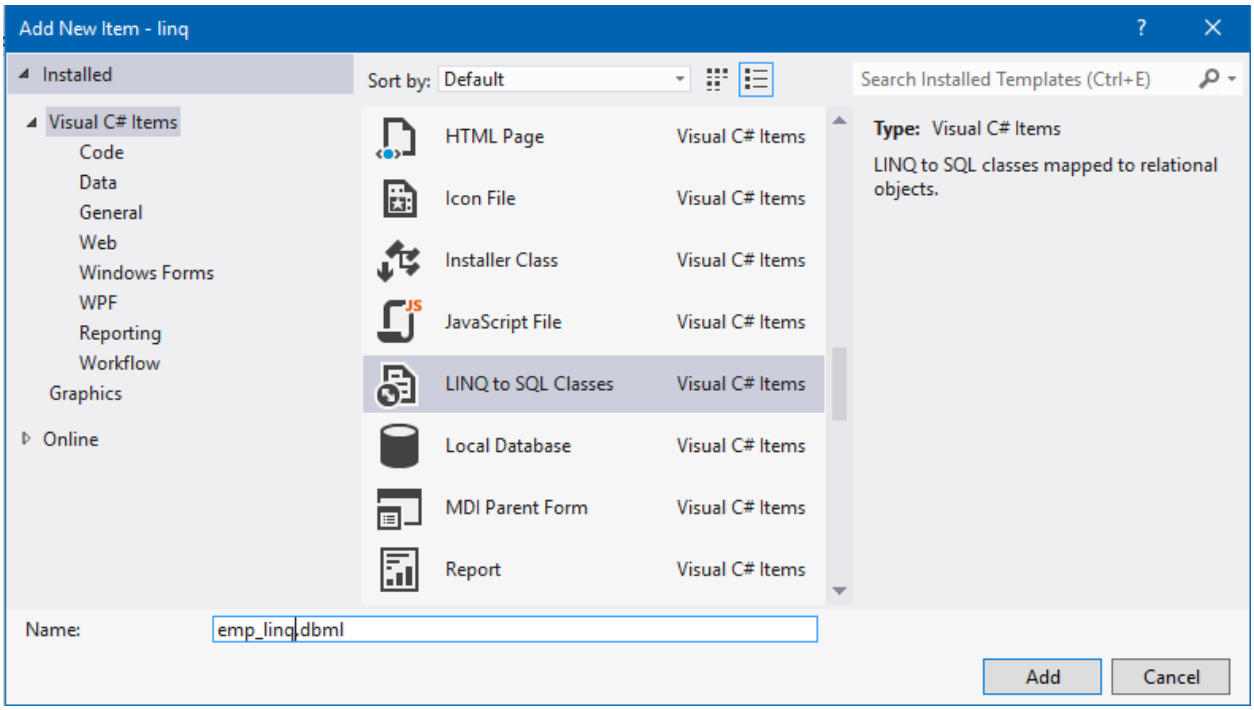
Insert data into emp table:



eid	enm	job	sal
1	ram	assitant	12000
2	sham	operator	10000
3	priti	operator	10000
4	baban	admin	20000
NULL	NULL	NULL	NULL

Add “linq to sql classes” to application;

Right click on project-> add -> add new item -> linq to classes



Form code and header files:

```
using System.Data.SqlClient;
SqlConnection con;
private void Form1_Load(object sender, EventArgs e)
    {
        con = new SqlConnection("Data
Source=(LocalDB)\\v11.0;AttachDbFilename=C:\\Users\\Shreesh\\documents\\visual studio
2012\\Projects\\linq\\linq\\data.mdf;Integrated Security=True");
        emp_linqDataContext ds = new emp_linqDataContext();
        var exp = (from str in ds.emps
                   select new
                   {
                      str.eid,
                      str.enm,
                      str.job,
```

```
                str.sal
            });
        dataGridView1.DataSource = exp;
    }
```

Form run: