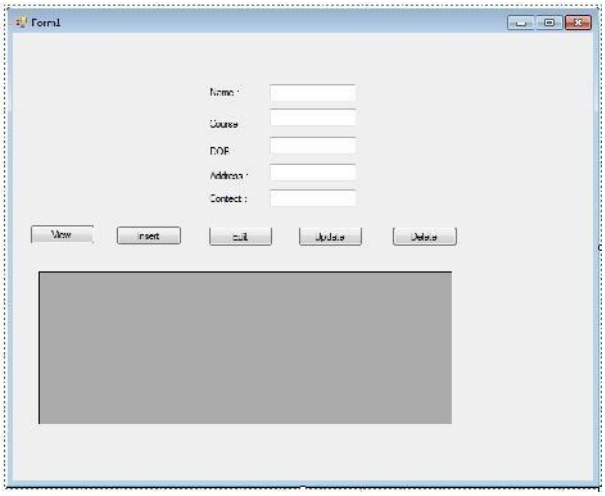
Tutorial - 9:

Design an application which will demonstrate the operations like Insert, Update and Delete on data using Connected Approach.



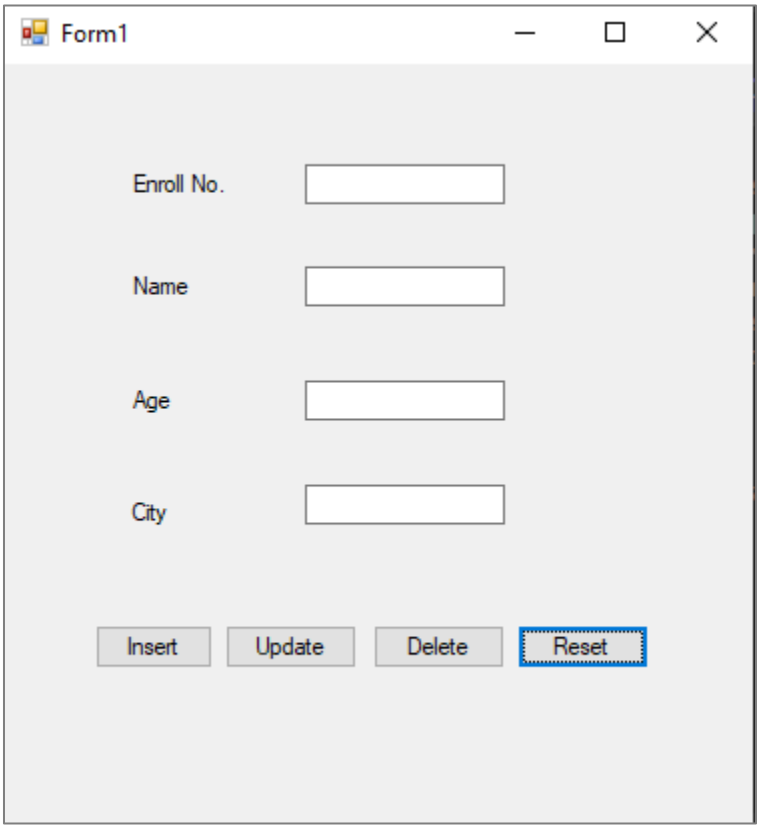
Code:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace CRUD_demo
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Btninsert_Click(object sender, EventArgs e)
```

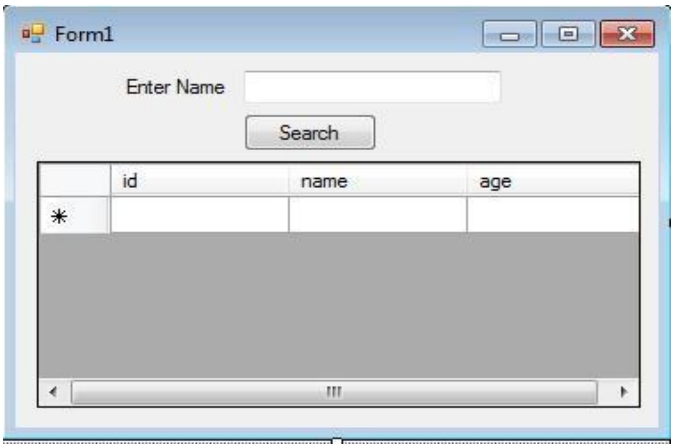
```
        {
            this.Enabled = false;
            String constr = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=E:\Gautam\CRUDdemo\CRUD demo\CRUD
demo\Student.mdf;Integrated Security=True;Connect Timeout=30";
            SqlConnection con = new SqlConnection(constr);
            con.Open();
            String query = "Insert into
student(EnrlNo,Name,Age,City)Values(@EnrlNo,@Name,@Age,@City)";
            SqlCommand cmd = new SqlCommand(query, con);
            cmd.Parameters.AddWithValue("@EnrlNo", txtEnrlNo.Text);
            cmd.Parameters.AddWithValue("@Name", txtName.Text);
            cmd.Parameters.AddWithValue("@Age", txtAge.Text);
            cmd.Parameters.AddWithValue("@City", txtCity.Text);
            cmd.ExecuteNonQuery();
            con.Close();

            MessageBox.Show("Insertion successful", "Insertion");
            reset();
            this.Enabled = true;
        }

        public void reset()
        {
            txtAge.Text = "";
            txtCity.Text = "";
            txtEnrlNo.Text = "";
            txtName.Text = "";
        }
        private void BtnReset_Click(object sender, EventArgs e)
        {
            reset();
        }

        private void Btnupdate_Click(object sender, EventArgs e)
        {
            this.Enabled = false;
            String constr = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=E:\Gautam\CRUDdemo\CRUD demo\CRUD
demo\Student.mdf;Integrated Security=True;Connect Timeout=30";
            SqlConnection con = new SqlConnection(constr);
```

```
            con.Open();
            String query = "Update student set Name=@Name, Age=@Age, City=@City
where EnrlNo=@EnrlNo";
            SqlCommand cmd = new SqlCommand(query, con);
            cmd.Parameters.AddWithValue("@EnrlNo", txtEnrlNo.Text);
            cmd.Parameters.AddWithValue("@Name", txtName.Text);
            cmd.Parameters.AddWithValue("@Age", txtAge.Text);
            cmd.Parameters.AddWithValue("@City", txtCity.Text);
            cmd.ExecuteNonQuery();
            con.Close();

            MessageBox.Show("Update successful", "Insertion");
            reset();
            this.Enabled = true;
        }

        private void Btndelete_Click(object sender, EventArgs e)
        {
            this.Enabled = false;
            String constr = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=E:\Gautam\CRUDdemo\CRUD demo\CRUD
demo\Student.mdf;Integrated Security=True;Connect Timeout=30";
            SqlConnection con = new SqlConnection(constr);
            con.Open();

            String query = "DELETE FROM Student where EnrlNo=EnrlNo";
            SqlCommand cmd = new SqlCommand(query, con);

            cmd.Parameters.AddWithValue("@EnrlNo", txtEnrlNo.Text);
            cmd.ExecuteNonQuery();

            con.Close();

            MessageBox.Show("Deletion successful", "Insertion");
            reset();
            this.Enabled = true;
        }
    }
}
```

Output:



Design an application which provide the search facility from database records using DataGridView component.



Code:

Output: