using System;

using System.Data;

using System.Windows.Forms;

using System.Data.SqlClient;

namespace InsertUpdateDeleteDemo

{

public partial class frmMain : Form

{

SqlConnection con= new SqlConnection("Data Source=.;Initial Catalog=Sample;Integrated Security=true;");

SqlCommand cmd;

SqlDataAdapter adapt;

//ID variable used in Updating and Deleting Record

int ID = 0;

public frmMain()

{

InitializeComponent();

DisplayData();

}

//Insert Data

private void btn\_Insert\_Click(object sender, EventArgs e)

{

if (txt\_Name.Text != "" && txt\_State.Text != "")

{

cmd = new SqlCommand("insert into tbl\_Record(Name,State) values(@name,@state)", con);

con.Open();

cmd.Parameters.AddWithValue("@name", txt\_Name.Text);

cmd.Parameters.AddWithValue("@state", txt\_State.Text);

cmd.ExecuteNonQuery();

con.Close();

MessageBox.Show("Record Inserted Successfully");

DisplayData();

ClearData();

}

else

{

MessageBox.Show("Please Provide Details!");

}

}

//Display Data in DataGridView

private void DisplayData()

{

con.Open();

DataTable dt=new DataTable();

adapt=new SqlDataAdapter("select \* from tbl\_Record",con);

adapt.Fill(dt);

dataGridView1.DataSource = dt;

con.Close();

}

//Clear Data

private void ClearData()

{

txt\_Name.Text = "";

txt\_State.Text = "";

ID = 0;

}

//dataGridView1 RowHeaderMouseClick Event

private void dataGridView1\_RowHeaderMouseClick(object sender, DataGridViewCellMouseEventArgs e)

{

ID = Convert.ToInt32(dataGridView1.Rows[e.RowIndex].Cells[0].Value.ToString());

txt\_Name.Text = dataGridView1.Rows[e.RowIndex].Cells[1].Value.ToString();

txt\_State.Text = dataGridView1.Rows[e.RowIndex].Cells[2].Value.ToString();

}

//Update Record

private void btn\_Update\_Click(object sender, EventArgs e)

{

if (txt\_Name.Text != "" && txt\_State.Text != "")

{

cmd = new SqlCommand("update tbl\_Record set Name=@name,State=@state where ID=@id", con);

con.Open();

cmd.Parameters.AddWithValue("@id", ID);

cmd.Parameters.AddWithValue("@name", txt\_Name.Text);

cmd.Parameters.AddWithValue("@state", txt\_State.Text);

cmd.ExecuteNonQuery();

MessageBox.Show("Record Updated Successfully");

con.Close();

DisplayData();

ClearData();

}

else

{

MessageBox.Show("Please Select Record to Update");

}

}

//Delete Record

private void btn\_Delete\_Click(object sender, EventArgs e)

{

if(ID!=0)

{

cmd = new SqlCommand("delete tbl\_Record where ID=@id",con);

con.Open();

cmd.Parameters.AddWithValue("@id",ID);

cmd.ExecuteNonQuery();

con.Close();

MessageBox.Show("Record Deleted Successfully!");

DisplayData();

ClearData();

}

else

{

MessageBox.Show("Please Select Record to Delete");

}

}

}