using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Data.SqlClient;

using System.Data;

using System.Configuration;

namespace ADODataSetDemo

{

class Program

{

static SqlConnection con;

static SqlCommandBuilder cbd;

static SqlDataAdapter ada;

static DataSet ds;

static void Main(string[] args)

{

GetEmployees();

//InsertEmployee();

//UpdateEmployee();

//DeleteEmployee();

//GetEmployees();

FindEmployeeByID();

}

static string GetConnectionString()

{

string connectionString = ConfigurationManager.AppSettings["connection"].ToString();

return connectionString;

}

static void GetEmployees()

{

Ini();

foreach(DataRow dr in ds.Tables[0].Rows)

{

foreach(DataColumn dc in ds.Tables[0].Columns)

Console.Write(dr[dc] + "\t");

Console.WriteLine();

}

}

static void Ini()

{

cbd = new SqlCommandBuilder(ada);

con = new SqlConnection(GetConnectionString());

ada = new SqlDataAdapter();

con = new SqlConnection(GetConnectionString());

ada = new SqlDataAdapter();

ada.SelectCommand = new SqlCommand("Select \* from Employee", con);

ds = new DataSet();

ada.Fill(ds);

}

static void InsertEmployee()

{

Ini();

Console.WriteLine(ds.Tables[0].Rows.Count);

ada.InsertCommand = cbd.GetInsertCommand();

// ada.InsertCommand = new SqlCommand("Insert into Employee values(25,'Pawan','Mktg',13000)",con);

DataRow dr = ds.Tables[0].NewRow();

dr[0] = 29;

dr[1] = "Pawan";

dr[2] = "Accts";

dr[3] = 20000;

ds.Tables[0].Rows.Add(dr);

ada.Update(ds);

}

static void UpdateEmployee()

{

Ini();

ada.UpdateCommand = cbd.GetUpdateCommand();

Console.WriteLine(ds.Tables[0].Rows.Count);

// ada.UpdateCommand = new SqlCommand("Update Employee set department='Accts' , salary = 21000 where id=2", con);

//DataRow dr = ds.Tables[0].Rows.Find(2);

ds.Tables[0].Rows[5][2] = "nnnnAccts";

ds.Tables[0].Rows[5][3] = 21000;

ada.Update(ds);

}

static void DeleteEmployee()

{

Ini();

ada.DeleteCommand = cbd.GetDeleteCommand();

Console.WriteLine(ds.Tables[0].Rows.Count);

// ada.UpdateCommand = new SqlCommand("Update Employee set department='Accts' , salary = 21000 where id=2", con);

//DataRow dr = ds.Tables[0].Rows.Find(2);

ds.Tables[0].Rows[2].Delete();

ada.Update(ds);

GetEmployees();

}

static void FindEmployeeByID()

{

Ini();

DataRow[] rows = ds.Tables[0].Select("id = 21 and name='Lalit'");

if (rows != null && rows.Length > 0)

{

Console.WriteLine("id is" + rows[0][1]);

}

Console.WriteLine(rows.Length);

}

}

}