DataSet

using System;

using System.Data.SqlClient;

using System.Data;

namespace ConsoleApp4

{

class Program

{

static void Main(string[] args)

{

SqlConnection con = new SqlConnection("data source = LAPTOP-53S2KQS8; initial catalog = practice; integrated security = true");

SqlDataAdapter ada = new SqlDataAdapter("Select \* from Employee", con);

DataSet ds = new DataSet();

ada.Fill(ds, "Employee");

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

{

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

{

Console.Write(dr[dc].ToString());

}

Console.WriteLine("");

}

}

}

}

using System;

using System.Data.SqlClient;

using System.Data;

namespace ConsoleApp4

{

class Program

{

static void Main(string[] args)

{

SqlConnection con = new SqlConnection("data source = LAPTOP-53S2KQS8; initial catalog = practice; integrated security = true");

SqlDataAdapter ada = new SqlDataAdapter("Select \* from Employee", con);

SqlCommand com = new SqlCommand();

com.CommandType = CommandType.Text;

com.CommandText = "Select \* from Employee";

com.Connection = con;

ada = new SqlDataAdapter();

ada.SelectCommand = com;

DataSet ds = new DataSet();

ada.Fill(ds, "Employee");

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

{

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

{

Console.Write(dr[dc].ToString());

}

Console.WriteLine("");

}

}

}

}

Complete operations (CRUD)

using System;

using System.Data.SqlClient;

using System.Data;

namespace ConsoleApp4

{

class Program

{

static void Main(string[] args)

{

SqlConnection con = new SqlConnection("data source = LAPTOP-53S2KQS8; initial catalog = practice; integrated security = true");

SqlDataAdapter ada;

SqlCommand com = new SqlCommand("getEmps");

com.CommandType = CommandType.StoredProcedure;

com.Connection = con;

ada = new SqlDataAdapter();

ada.SelectCommand = com;

DataSet ds = new DataSet();

ada.Fill(ds, "Employee");

SqlCommandBuilder sb = new SqlCommandBuilder(ada);

foreach (DataRow dr2 in ds.Tables[0].Rows)

{

foreach (DataColumn dc2 in ds.Tables[0].Columns)

{

Console.Write(dr2[dc2].ToString());

}

Console.WriteLine("");

}

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

//dr[0] = 173;

//dr["name"] = "Deepak";

//dr[2] = 10000;

//dr[3] = "Ajay";

//dr[4] = 90;

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

//ada.Update(ds, "Employee");

Console.WriteLine("Searching .... ");

foreach (DataRow dr3 in ds.Tables[0].Rows)

{

if ((int)dr3["id"] == 10)

{

Console.Write(dr3[1].ToString());

Console.WriteLine(dr3[2].ToString());

}

}

// Delete Record

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

for (int i = 0; i < ds.Tables[0].Rows.Count; i++)

{

if((int)ds.Tables[0].Rows[i][0] == 10)

{

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

}

}

ada.Update(ds, "Employee");

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// Update Record

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

foreach (DataRow dr3 in ds.Tables[0].Rows)

{

if ((int)dr3["id"] == 13)

{

dr3["manager"] = "AAA";

}

}

ada.Update(ds, "Employee");

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//Console.WriteLine("Searching on Dept .... ");

//foreach (DataRow dr3 in ds.Tables[0].Rows)

//{

// // Console.WriteLine(dr3["department"].ToString());

// if (dr3["department"].ToString().Trim() == "HR")

// {

// Console.WriteLine(dr3[1].ToString());

// }

//}

}

}

}

Complete Disconnected Code with primary key

using System;

using System.Data.SqlClient;

using System.Data;

namespace ConsoleApp4

{

class Program

{

static void Main(string[] args)

{

SqlConnection con = new SqlConnection("data source = LAPTOP-53S2KQS8; initial catalog = practice; integrated security = true");

SqlDataAdapter ada;

SqlCommand com = new SqlCommand("getEmps");

com.CommandType = CommandType.StoredProcedure;

com.Connection = con;

ada = new SqlDataAdapter();

ada.SelectCommand = com;

DataSet ds = new DataSet();

// Create primary key in data table also from the database table

ada.MissingSchemaAction = MissingSchemaAction.AddWithKey;

ada.Fill(ds, "Employee");

SqlCommandBuilder sb = new SqlCommandBuilder(ada);

foreach (DataRow dr2 in ds.Tables[0].Rows)

{

foreach (DataColumn dc2 in ds.Tables[0].Columns)

{

Console.Write(dr2[dc2].ToString());

}

Console.WriteLine("");

}

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

//dr[0] = 173;

//dr["name"] = "Deepak";

//dr[2] = 10000;

//dr[3] = "Ajay";

//dr[4] = 90;

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

//ada.Update(ds, "Employee");

Console.WriteLine("Searching .... ");

DataRow dr = ds.Tables[0].Rows.Find(13);

if(dr!=null)

{

Console.WriteLine(dr[1].ToString());

}

else

{

Console.WriteLine("Not Found");

}

//// Delete Record

//// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DataRow dr1 = ds.Tables[0].Rows.Find(13);

if (dr1 != null)

{

ds.Tables[0].Rows.Find(13).Delete();

}

else

{

Console.WriteLine("Not Found");

}

ada.Update(ds, "Employee");

//// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//// Update Record

////\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DataRow dr2= ds.Tables[0].Rows.Find(13);

if (dr2 != null)

{

dr["manager"] = "AAA";

}

else

{

Console.WriteLine("Not Found");

}

ada.Update(ds, "Employee");

////\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

////Console.WriteLine("Searching on Dept .... ");

////foreach (DataRow dr3 in ds.Tables[0].Rows)

////{

//// // Console.WriteLine(dr3["department"].ToString());

//// if (dr3["department"].ToString().Trim() == "HR")

//// {

//// Console.WriteLine(dr3[1].ToString());

//// }

////}

}

}

}