using System;

using System.Collections.Generic;

using System.Configuration;

using System.Data;

using System.Data.SqlClient;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp26

{

public class Program

{

static void Main(string[] args)

{

#region Way 1 for Select

//SqlConnection conn = new SqlConnection();

//conn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=Library;Integrated Security=True;Connect Timeout=30;ApplicationIntent=ReadWrite;";

//SqlDataReader reader = null;

//try

//{

// conn.Open();

// string query = "SELECT \* FROM Authors";

// SqlCommand command = new SqlCommand(query, conn);

// reader = command.ExecuteReader();

// while (reader.Read())

// {

// Console.WriteLine($"{reader[0]} {reader[1]} {reader[2]}");

// Console.WriteLine();

// }

//}

//catch(Exception ex)

//{

// Console.WriteLine(ex.Message);

//}

//finally

//{

// if(reader != null)

// {

// reader.Close();

// }

// if(conn != null)

// {

// conn.Close();

// }

//}

#endregion

#region Way 2 Select

//using (var conn = new SqlConnection())

//{

// conn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=Library;Integrated Security=True;Connect Timeout=30;ApplicationIntent=ReadWrite;";

// SqlDataReader reader = null;

// conn.Open();

// string query = "SELECT \* FROM Authors";

// using (SqlCommand command = new SqlCommand(query, conn))

// {

// reader = command.ExecuteReader();

// while (reader.Read())

// {

// Console.WriteLine($"{reader[1]} {reader[2]}");

// Console.WriteLine();

// }

// }

//}

#endregion

#region Double Select

//using (var conn = new SqlConnection())

//{

// conn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=Library;Integrated Security=True;Connect Timeout=30;ApplicationIntent=ReadWrite;";

// SqlDataReader reader = null;

// conn.Open();

// string query = "SELECT \* FROM Authors;SELECT \* FROM Books";

// using (SqlCommand command = new SqlCommand(query, conn))

// {

// reader = command.ExecuteReader();

// bool hasShowed = false;

// do

// {

// Console.WriteLine(" Total records");

// while (reader.Read())

// {

// if (!hasShowed)

// {

// hasShowed = true;

// for (int i = 0; i < reader.FieldCount; i++)

// {

// Console.Write(reader.GetName(i).ToString() + "\t");

// }

// Console.WriteLine();

// }

// Console.WriteLine($"{reader[0]} - {reader[1]} - {reader[2]}");

// }

// hasShowed=false;

// } while (reader.NextResult());

// }

//}

#endregion

//SQL Injection

#region Insert

//using (var conn=new SqlConnection())

//{

// conn.ConnectionString=

// ConfigurationManager.ConnectionStrings["MyConnString"].ConnectionString;

// conn.Open();

// string query = @"INSERT INTO Authors(Id,FirstName,LastName)

// VALUES(555,'Roger','Zelazny')";

// using (SqlCommand command = new SqlCommand(query, conn))

// {

// var result=command.ExecuteNonQuery();

// Console.WriteLine($"{result} rows affected");

// }

//}

#endregion

#region Insert with params

//using (var conn = new SqlConnection())

//{

// conn.ConnectionString =

// ConfigurationManager.ConnectionStrings["MyConnString"].ConnectionString;

// conn.Open();

// string query = @"INSERT INTO Authors(Id,FirstName,LastName)

// VALUES(@id,@firstName,@lastName)";

// var paramId = new SqlParameter();

// paramId.ParameterName = "@id";

// paramId.SqlDbType = SqlDbType.Int;

// paramId.Value = 1111;

// var paramFirstName = new SqlParameter();

// paramFirstName.ParameterName = "@firstName";

// paramFirstName.SqlDbType = SqlDbType.NVarChar;

// paramFirstName.Value = "Elvin";

// var paramLastName = new SqlParameter();

// paramLastName.ParameterName = "@lastName";

// paramLastName.SqlDbType = SqlDbType.NVarChar;

// paramLastName.Value = "Elvin";

// using (SqlCommand command = new SqlCommand(query, conn))

// {

// command.Parameters.Add(paramId);

// command.Parameters.Add(paramFirstName);

// command.Parameters.Add(paramLastName);

// var result = command.ExecuteNonQuery();

// Console.WriteLine($"{result} rows affected");

// }

//}

#endregion

#region Select With Param

//using (var conn = new SqlConnection())

//{

// conn.ConnectionString =

// ConfigurationManager.ConnectionStrings["MyConnString"].ConnectionString;

// conn.Open();

// string query = @"SELECT \* FROM Books

// WHERE Pages > @MyPage";

// var param = new SqlParameter();

// param.ParameterName = "@MyPage";

// param.SqlDbType = SqlDbType.Int;

// param.Value = 100;

// SqlDataReader reader = null;

// using (SqlCommand command = new SqlCommand(query, conn))

// {

// command.Parameters.Add(param);

// reader = command.ExecuteReader();

// while (reader.Read())

// {

// Console.WriteLine($"{reader[1]} {reader[2]}");

// Console.WriteLine();

// }

// }

//}

#endregion

#region Stored Procedure

using (var conn=new SqlConnection())

{

conn.ConnectionString = ConfigurationManager

.ConnectionStrings["MyConnString"].ConnectionString;

conn.Open();

SqlCommand cmd = new SqlCommand("ShowStudentsByGroupName", conn);

cmd.CommandType = CommandType.StoredProcedure;

var param=new SqlParameter();

param.SqlDbType = SqlDbType.NVarChar;

param.ParameterName = "@groupname";

param.Value = "18P2";

cmd.Parameters.Add(param);

var reader=cmd.ExecuteReader();

while (reader.Read())

{

Console.Write($"{reader[0]} {reader[1]}");

Console.WriteLine();

}

}

//Wpf butun datalar gosterilir

//Insert

//Update

//Deleted

}

}