DAY 7 ADO.NET

CONSOLE APPLICATION: CREATE UPDATE DELETE

SELECT

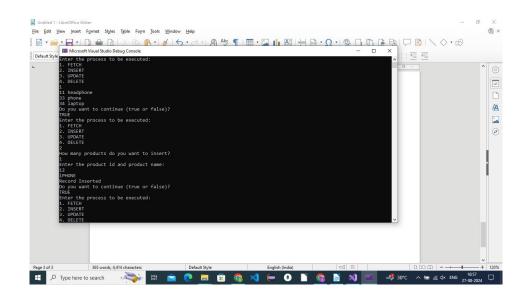
CODE:

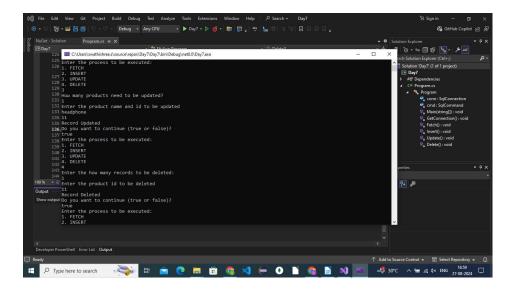
```
//// See https://aka.ms/new-console-template for more information
//
//
////static void create()
////{
//// Console.WriteLine("Hello, World!");
//// SqlConnection conn = new SqlConnection("data source=PTSQLTESTDB01;database=SAMPLE;integrated
security=true;");
//// conn.Open();
//// SqlCommand cmd = new SqlCommand("create table ProductSam(ProId int primary key,ProName varchar(30))",
conn);
//// cmd.ExecuteNonQuery();
//// Console.WriteLine("Table created successfully");
//// conn.Close();
////}
//
using System;
using System.Data.SqlClient;
namespace MyApp
  internal class Program
    static SqlConnection conn;
    static SqlCommand cmd;
    static void Main(string[] args)
       bool res = true;
       while (res)
         Console.WriteLine("Enter the process to be executed:\n1. FETCH\n2. INSERT\n3. UPDATE\n4. DELETE");
         int opt = Convert.ToInt32(Console.ReadLine());
         if (opt == 1)
           Fetch();
         else if (opt == 2)
            Console. WriteLine("How many products do you want to insert?");
            int numberOfProducts = Convert.ToInt32(Console.ReadLine());
            for (int i = 0; i < numberOfProducts; <math>i++)
              Insert();
```

```
else if (opt == 3)
       Console. WriteLine("How many products need to be updated?");
       int update product = Convert.ToInt32(Console.ReadLine());
       for (int j = 0; j < update product; <math>j++)
         Update();
       }
     }
    else if (opt == 4)
       Console. WriteLine("Enter the how many records to be deleted:");
       int del id = Convert.ToInt32(Console.ReadLine());
       for (int k = 0; k < del_id; k++)
         Delete();
       }
    Console. WriteLine("Do you want to continue (true or false)?");
    res = Convert.ToBoolean(Console.ReadLine());
}
static void GetConnection()
  conn = new SqlConnection("data source=PTSQLTESTDB01;database=SAMPLE;integrated security=true;");
  conn.Open();
static void Fetch()
  GetConnection();
  cmd = new SqlCommand("select * from ProductSam", conn);
  SqlDataReader sdr = cmd.ExecuteReader();
  while (sdr.Read())
     Console.WriteLine($"{sdr[0]} {sdr[1]}");
  conn.Close();
}
static void Insert()
  GetConnection();
  Console. WriteLine("Enter the product id and product name:");
  int id = Convert.ToInt32(Console.ReadLine());
  string name = Console.ReadLine();
  cmd = new SqlCommand("insert into ProductSam values(@id, @name)", conn);
  cmd.Parameters.AddWithValue("@id", id);
  cmd.Parameters.AddWithValue("@name", name);
  cmd.ExecuteNonQuery();
  Console.WriteLine("Record Inserted");
  conn.Close();
static void Update()
  GetConnection();
```

```
Console.WriteLine("Enter the product name and id to be updated");
  string name = Console.ReadLine();
  int id = Convert.ToInt32(Console.ReadLine());
  cmd = new SqlCommand("update ProductSam set ProName=@name where ProId=@id", conn);
  cmd.Parameters.AddWithValue("@id", id);
  cmd.Parameters.AddWithValue("@name", name);
  cmd.ExecuteNonQuery();
  Console.WriteLine("Record Updated");
  conn.Close();
static void Delete()
  GetConnection();
  Console. WriteLine("Enter the product id to be deleted");
  int id = Convert.ToInt32(Console.ReadLine());
  cmd = new SqlCommand("delete from ProductSam where ProId=@id", conn);
  cmd.Parameters.AddWithValue("@id", id);
  cmd.ExecuteNonQuery();
  Console.WriteLine("Record Deleted");
  conn.Close();
```

OUTPUT:





Windows:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Reflection.Emit;
using System.Text;
using System.Threading.Tasks;
using System. Windows. Forms;
using System.Xml.Linq;
namespace grid27
  public partial class Form1: Form
    static SqlConnection conn;
    static SqlCommand cmd;
    public Form1()
       InitializeComponent();
    static void GetConnection()
      conn = new SqlConnection("data source=PTSQLTESTDB01;database=SAMPLE;integrated security=true;");
      conn.Open();
    private void Form1_Load(object sender, EventArgs e)
      GetConnection();
      cmd = new SqlCommand("select * from ProductSam", conn);
      SqlDataReader sdr = cmd.ExecuteReader();
      DataTable dt = new DataTable();
      dt.Load(sdr);
      dataGridView1.DataSource = dt;
```

```
}
private void buttonDisplay Click(object sender, EventArgs e)
  //display
  GetConnection();
  cmd = new SqlCommand("select * from ProductSam", conn);
  cmd.ExecuteNonQuery();
  SqlDataReader sdr = cmd.ExecuteReader();
  DataTable dt = new DataTable();
  dt.Load(sdr);
  dataGridView1.DataSource = dt;
private void buttonAdd Click(object sender, EventArgs e)
  GetConnection();
  int id = Convert.ToInt32(textBox1.Text);
  string name = textBox2.Text.ToString();
  SqlCommand cmd = new SqlCommand("insert into ProductSam values(@id,@name)", conn);
  cmd.Parameters.AddWithValue("@id", id);
  cmd.Parameters.AddWithValue("@name", name);
  cmd.ExecuteNonQuery();
  MessageBox.Show("Insert Successfully");
  conn.Close();
private void button1 Click(object sender, EventArgs e)
   GetConnection();
  int id = Convert.ToInt32(textBox1.Text);
  string name = textBox2.Text.ToString();
  string s1 = "update ProductSam set ProName=@name where ProId=@id";
  SqlCommand cmd = new SqlCommand(s1, conn);
  cmd.Parameters.AddWithValue("@name", name);
  cmd.Parameters.AddWithValue("@id", id);
  cmd.ExecuteNonQuery();
  MessageBox.Show("Price Updated successfully");
  conn.Close();
private void button2_Click(object sender, EventArgs e)
  GetConnection();
  int id = Convert.ToInt32(textBox1.Text);
  string s = "delete from ProductSam where ProId=@id";
  cmd = new SqlCommand(s, conn);
  cmd.Parameters.AddWithValue("@id", id);
  cmd.ExecuteNonQuery();
  MessageBox.Show("One records deleted successfully");
  conn.Close();
private void button3_Click(object sender, EventArgs e)
  GetConnection();
```

```
string s1 = "select count(*) from ProductSam";
SqlCommand cmd = new SqlCommand(s1, conn);
int result = Convert.ToInt32(cmd.ExecuteScalar());
MessageBox.Show( "Total Product:"+result.ToString());
}
}
}
}
```

OUTPUT:

