ADO - C# Assessment

Case study – set 1 :

using System;

using System.Collections.Generic;

using System.Configuration;

using System.Data.SqlClient;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace DBconnect

{

internal class DB

{

SqlConnection conn;

SqlCommand cmd;

SqlDataReader sdr;

public void OpenConn()

{

try

{

conn = new SqlConnection("data source=LENOVO-DEEPI\\SQLEXPRESS01;" + "database=bank;" + "integrated security=SSPI");

conn.Open();

Console.WriteLine("Connection opened");

}

catch(SqlException ex)

{

Console.WriteLine("Connection not established");

}

}

public void Points()

{

cmd = new SqlCommand(" select s.customer\_id, sum(price\*10) from sales s join menu m on m.product\_id = s.product\_id group by s.customer\_id", conn);

sdr = cmd.ExecuteReader();

Console.WriteLine("Qn5 :");

if(sdr.HasRows)

{

Console.WriteLine("Table is Empty");

}

while(sdr.Read())

{

Console.WriteLine(sdr["customer\_id"] + " " + sdr[1]);

}

Console.WriteLine();

sdr.Close();

}

public void TotalItems()

{

cmd = new SqlCommand("select s.customer\_id, count(s.product\_id), sum(m.price) from sales s join menu m on m.product\_id = s.product\_id join members mem on mem.Customer\_id = s.customer\_id where s.order\_date > mem.join\_date group by s.customer\_id", conn);

sdr= cmd.ExecuteReader();

Console.WriteLine("Qn4 :");

if(!sdr.HasRows)

{

Console.WriteLine("Table is empty");

}

while(sdr.Read())

{

Console.WriteLine(sdr["customer\_id"] + " " + sdr[1] + " " + sdr[2]);

}

Console.WriteLine();

sdr.Close();

}

public void MostPurchased()

{

cmd = new SqlCommand("select Top 1 m.product\_name, count(s.product\_id) from menu m join sales s on m.product\_id = s.product\_id group by m.product\_name order by count(s.product\_id) desc", conn);

sdr= cmd.ExecuteReader();

Console.WriteLine("Qn3 :");

if(!sdr.HasRows)

{

Console.WriteLine("Table is empty");

}

while(sdr.Read())

{

Console.WriteLine(sdr["product\_name"] + " " + sdr[1]);

}

Console.WriteLine();

sdr.Close();

}

public void DisplayDetails()

{

cmd = new SqlCommand("Select s.customer\_id, Sum(m.price) from menu m join sales s on m.product\_id = s.product\_id group by s.customer\_id", conn);

sdr = cmd.ExecuteReader();

Console.WriteLine("Qn1 :");

if(!sdr.HasRows)

{

Console.WriteLine("Table is empty");

}

while(sdr.Read())

{

Console.WriteLine(sdr["customer\_id"] + " " + sdr[1]);

}

sdr.Close();

Console.WriteLine();

}

public void DaysVisited()

{

cmd = new SqlCommand("select customer\_id, count(distinct(order\_date)) from sales group by customer\_id", conn);

sdr= cmd.ExecuteReader();

Console.WriteLine("Qn2 :");

if(!sdr.HasRows)

{

Console.WriteLine("Table is empty");

}

else

{

while(sdr.Read())

{

Console.WriteLine(sdr["customer\_id"] + " " + sdr[1]);

}

}

Console.WriteLine();

sdr.Close();

}

public void CloseConn()

{

if (conn != null)

{

conn.Close();

Console.WriteLine("Connection Closed");

}

}

}

}

using DBconnect;

using System.Configuration;

using System.Data.SqlClient;

using System.Text;

class Program

{

public static void Main(string[] args)

{

DB db = new DB();

db.OpenConn();

db.DisplayDetails();

db.DaysVisited();

db.MostPurchased();

db.TotalItems();

db.Points();

db.CloseConn();

}

}

Output:

