create database EmpDb

use EmpDb

create table Employee (id int primary key identity,

name varchar(20) not null,

address varchar(50),

age int check (age between 25 and 40),

dept varchar(20) check(dept in ('HR','Sales','Accts')))

// Step 1

using System.Data.SqlClient;

namespace AdoDemo

{

internal class Program

{

static void Main(string[] args)

{

// Step 2

SqlConnection connection = new SqlConnection();

connection.ConnectionString = "data source=ANAMIKA\\SQLSERVER;initial catalog=EmpDb;integrated security=true";

//SqlCommand command = new SqlCommand();

//command.CommandText = "Select \* from Employee";

//command.Connection= connection;

// Step 3

SqlCommand command = new SqlCommand("Select \* from Employee", connection);

// Step 4

connection.Open();

// Step 5

SqlDataReader reader = command.ExecuteReader();

//if(reader.HasRows)

//{

// while(reader.Read())

// {

// Console.WriteLine(reader[0] + " " + reader[1] + " " + reader[2]);

// }

//}

if (reader.HasRows)

{

while (reader.Read())

{

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

{

Console.Write(reader[i] + " ");

}

Console.WriteLine();

}

}

else

{ Console.WriteLine("There are no records"); }

connection.Close();

AddEmployee();

}

static void AddEmployee()

{

SqlConnection connection = new SqlConnection("data source = ANAMIKA\\SQLSERVER; initial catalog = EmpDb; integrated security = true");

SqlCommand command = new SqlCommand();

command.CommandText = "Insert into Employee values('Deepak','Delhi',38,'Accts')";

command.Connection = connection;

connection.Open();

// ExecuteNonQuery() > performs DML insert/ delete / update

// it returns no. of records affected

int count = command.ExecuteNonQuery();

if(count > 0)

{

Console.WriteLine("Record has been added");

}

else

Console.WriteLine("Some Error came");

connection.Close();

}

}

}

// Step 1

using System.Data.SqlClient;

namespace AdoDemo

{

internal class Program

{

static SqlConnection connection;

static SqlCommand command;

static void Main(string[] args)

{

byte ch;

char choice = 'y';

while (choice == 'y')

{

Console.WriteLine("MAIN MENU");

Console.WriteLine("1. Add Record");

Console.WriteLine("2. Delete Record");

Console.WriteLine("3. Edit Record");

Console.WriteLine("4. List of Employees");

Console.WriteLine("5. Search Employee by ID");

Console.WriteLine("Enter your choice");

ch = byte.Parse(Console.ReadLine());

switch (ch)

{

case 1: AddEmployee(); break;

case 2: DeleteEmployee(); break;

case 3: EditEmployee(); break;

case 4: GetEmployees(); break;

case 5: GetEmployeeById(); break;

default: Console.WriteLine("Invalid choice"); break;

}

Console.WriteLine("Do ypu want to repeat");

choice = Convert.ToChar(Console.ReadLine());

}

}

private static string GetConnectionString()

{

return @"data source=ANAMIKA\SQLSERVER;initial catalog=EmpDb;integrated security=true";

}

private static SqlConnection GetConnection()

{

return new SqlConnection(GetConnectionString());

}

private static void GetEmployees()

{

// Step 2

connection = GetConnection();

//connection.ConnectionString = "data source=ANAMIKA\\SQLSERVER;initial catalog=EmpDb;integrated security=true";

//SqlCommand command = new SqlCommand();

//command.CommandText = "Select \* from Employee";

//command.Connection= connection;

// Step 3

command = new SqlCommand("Select \* from Employee", connection);

// Step 4

connection.Open();

// Step 5

SqlDataReader reader = command.ExecuteReader();

//if(reader.HasRows)

//{

// while(reader.Read())

// {

// Console.WriteLine(reader[0] + " " + reader[1] + " " + reader[2]);

// }

//}

if (reader.HasRows)

{

while (reader.Read())

{

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

{

Console.Write(reader[i] + " ");

}

Console.WriteLine();

}

}

else

{ Console.WriteLine("There are no records"); }

connection.Close();

}

static void AddEmployee()

{

connection = GetConnection();

command = new SqlCommand();

command.CommandText = "Insert into Employee values('Deepak','Delhi',38,'Accts')";

command.Connection = connection;

connection.Open();

// ExecuteNonQuery() > performs DML insert/ delete / update

// it returns no. of records affected

int count = command.ExecuteNonQuery();

if(count > 0)

{

Console.WriteLine("Record has been added");

}

else

Console.WriteLine("Some Error came");

connection.Close();

}

static void DeleteEmployee()

{

connection = GetConnection();

command = new SqlCommand("Delete Employee where id=3", connection);

connection.Open();

int count = command.ExecuteNonQuery();

if(count>0)

{

Console.WriteLine("Record has been deleted");

}

connection.Close();

}

static void EditEmployee()

{

connection = GetConnection();

command = new SqlCommand("update Employee set age = 26 where id=1", connection);

connection.Open();

int count = command.ExecuteNonQuery();

if (count > 0)

{

Console.WriteLine("Record has been edited");

}

connection.Close();

}

static void GetEmployeeById()

{

connection = GetConnection();

command = new SqlCommand("Select \* from Employee where id=1", connection);

connection.Open();

SqlDataReader reader = command.ExecuteReader();

if (reader.HasRows)

{

reader.Read();

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

{

Console.Write(reader[i] + " ");

}

}

else

{ Console.WriteLine("There is no record with this ID"); }

connection.Close();

}

}

}