

FATIMA JINNAH WOMEN UNIVERSITY

Department Of Software Engineering

HUMAN COMPUTER INTERACTION LAB

LAB 6 (User Interface Connectivity with Database)

Submitted To: Sir Rehan Ahmed

Submitted By: Tanzeela Asghar

Registration # 2021-BSE-032

Semester: VI - A

LAB TASKS

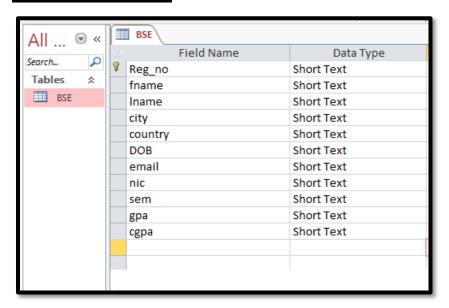
Task 1

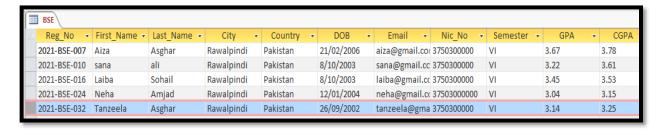
Create a MS Access database (name of data base = bsestudents) with following fields

Table name: BSE

Add data for 5 random students in MS Access Database.

Microsoft Access:





Task 2

Create a user interface in C# for the above database, connect your application with the database to perform following operations;

- 1. ADD
- 2. Update
- 3. Delete

Test your connection by;

- Add 3 more records through your app
- Update data for 2nd record
- Delete last row

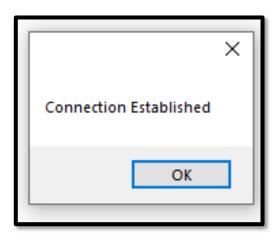
<u>Program:</u>

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.OleDb;
namespace HCI_LAB_6
    public partial class Form1 : Form
        private OleDbConnection connection = new OleDbConnection();
        public Form1()
            InitializeComponent();
            try
            {
                connection.ConnectionString = @"Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\92313\Documents\Database2.accdb;Persist Security Info=False;";
                MessageBox.Show("Connection Established");
            }
            catch(Exception exp1)
                MessageBox.Show("Error in " + exp1);
        }
        private void button1_Click(object sender, EventArgs e)
            try
                connection.Open();
                OleDbCommand command = new OleDbCommand();
                command.Connection = connection;
```

```
command.CommandText = "insert into BSE
(Reg_no,fname,lname,city,country,DOB,email,nic,sem,gpa,cgpa) values('" + textBox1.Text
+ "','" + textBox2.Text + "','" + textBox3.Text + "','" + textBox4.Text + "','" +
textBox5.Text + "','" + textBox6.Text + "','" + textBox7.Text + "','" + textBox8.Text
+ "','" + textBox9.Text + "','" + textBox10.Text + "','" + textBox11.Text + "')";
                 command.ExecuteNonQuery();
                 connection.Close();
                 MessageBox.Show("Data stored!");
             }
             catch (Exception exp2)
                 MessageBox.Show("Error in " + exp2);
        }
        private void button2_Click(object sender, EventArgs e)
             try
             {
                 connection.Open();
                     String del = "DELETE FROM BSE WHERE [Reg_no]=@Reg_no";
                     OleDbCommand command = new OleDbCommand();
                     command.CommandText = del;
                     command.Connection = connection;
                     command.Parameters.AddWithValue("@Reg_no", textBox1.Text);
                     command.ExecuteNonQuery();
                     MessageBox.Show("Data Deleted!");
                 connection.Close();
             }
             catch (Exception exp3)
                 MessageBox.Show("Error in Delete = " + exp3);
        }
        private void button3 Click(object sender, EventArgs e)
             try
             {
                 connection.Open();
                     OleDbCommand command = new OleDbCommand();
                     command.Connection = connection;
                     command.CommandText = "update BSE set fname='" + textBox2.Text +
"',lname='" + textBox3.Text + "' ,city='" + textBox4.Text + "' ,country='" +
textBox5.Text + "' ,DOB='" + textBox6.Text + "' ,email='" + textBox7.Text + "',nic='"
+ textBox8.Text + "',sem='" + textBox9.Text + "',gpa='" + textBox10.Text + "',cgpa='"
+ textBox8.Text + "i
+ textBox11.Text + "' where Reg no= '" + textBox1.Text + "'";
                     command.ExecuteNonQuery();
                     MessageBox.Show("Data Updated!");
                 connection.Close();
             }
```

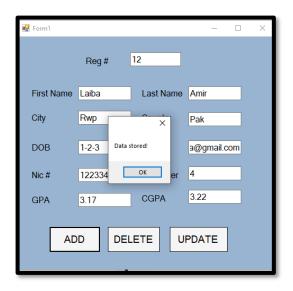
```
catch (Exception exp3)
{
          MessageBox.Show("Error in update = " + exp3);
}
}
```

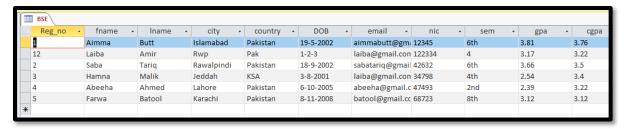
Output:



Data Added (Row 2):

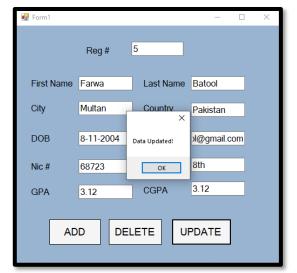


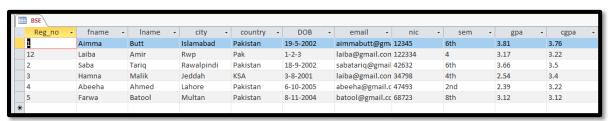




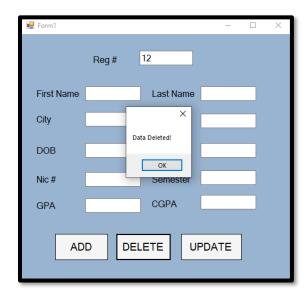
Data Updated (Row 5):

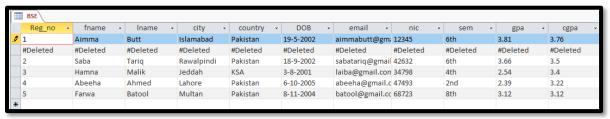






Data Deleted (Row 2):

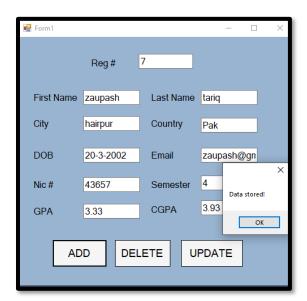




CONNECTION TESTING

Add 3 Records:







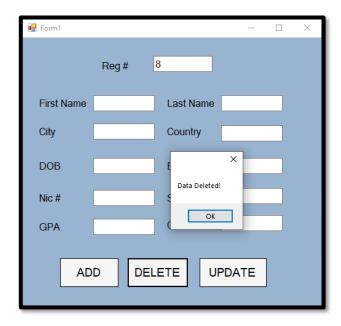


Update 2nd Record:





Delete last row:



	■ BSE \											
4	Reg_no ▼	fname 🔻	Iname -	city -	country -	DOB ▼	email 🕶	nic →	sem →	gpa →	cgpa →	
	1	Aimma	Butt	Islamabad	Pakistan	19-5-2002	aimmabutt@gma	12345	6th	3.81	3.76	
	2	Saba	Tariq	Murree	Pak	19-9-2002	sabataiq@gmail.	42632	6	3.66	3.22	
	3	Hamna	Malik	Jeddah	KSA	3-8-2001	laiba@gmail.con	34798	4th	2.54	3.4	
	4	Abeeha	Ahmed	Lahore	Pakistan	6-10-2005	abeeha@gmail.c	47493	2nd	2.39	3.22	
	5	Farwa	Batool	Multan	Pakistan	8-11-2004	batool@gmail.co	68723	8th	3.12	3.12	
	6	maham	naeem	Karachi	Pak	1-4-2006	maham@gmail.c	326534	4	3.22	3.55	
	7	zaupash	tariq	hairpur	Pak	20-3-2002	zaupash@gmail.	43657	4	3.33	3.93	
*												