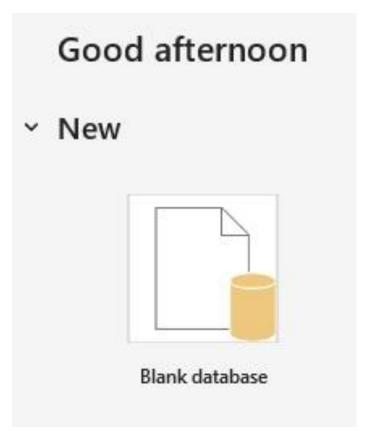
How to create a contacts management system application using C# and Microsoft Access 2019

Start Access

Following window will appear



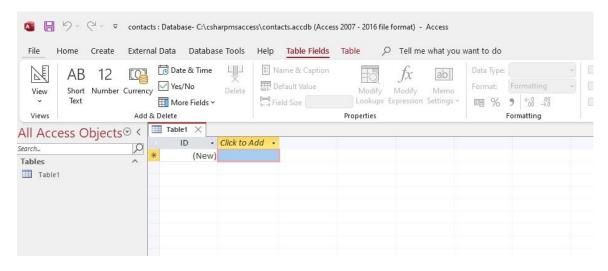
Double click on Blank Database

Following window will appear



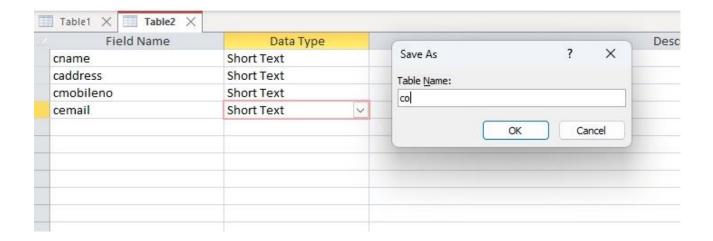
Click on Create

Following window will appear



Go to Create -> Table Design

Following window will appear

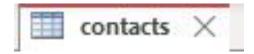


Give Table Name as contacts and click ok

Following window will appear

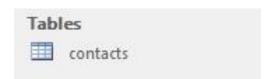


Click Yes and a primary key with name as ID and datatype as AutoNumber will be created in the contacts database.

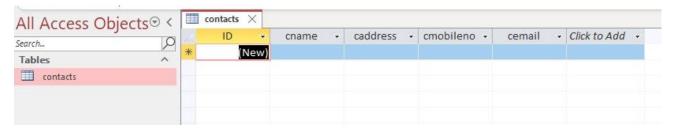


Now Click on Cross Button and then

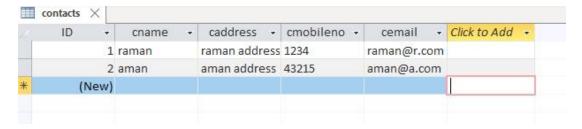
double click on contacts Table



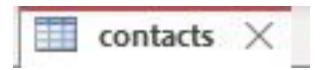
You will see the following output



Add two Records in table contacts like shown below



Now Close the Table contacts by clicking on



Now we have created a table contacts in ms access file contacts.accdb now we will create a Windows Form Application in C# to add a record, modify a record, delete a record and search for a record in contacts.accdb access file.

Start Visual Studio 2022 Community Edition.

Create a new Windows Form Project in C#

If You are new to this procedure you can take help from

http://www.cppcourses.com/csharpmysql.pdf

Now you have created the project and database now add dependency which is required to connect C# with Microsoft Access

Go to Tools -> NuGet Package Manager -> Manage NuGet Packages for Solution

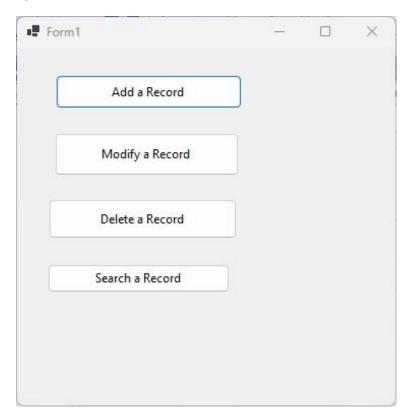
Following window will appear

Install System.Data.OleDb

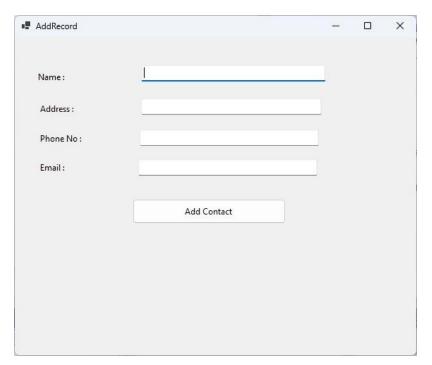


Create Following Forms in this ContactsMSAccess Application

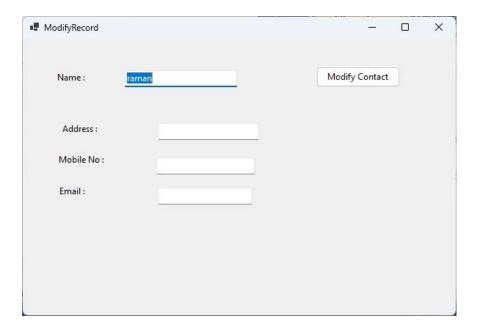
Form1



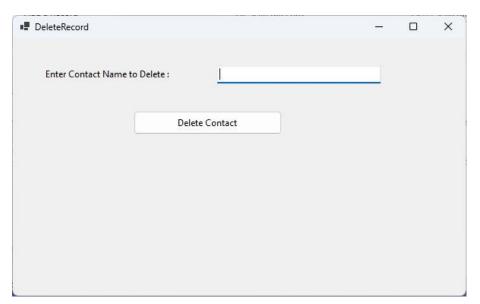
AddRecord Form



ModifyRecord Form



DeleteRecord Form



SearchRecord Form



Add a DataGridView to Form SearchRecord.

Following are Code for the above forms.

Code for Form1

```
private void button1_Click(object sender, EventArgs e)
{
    AddRecord a = new AddRecord();
    a.Show();
}

private void button2_Click(object sender, EventArgs e)
{
    ModifyRecord a = new ModifyRecord();
    a.Show();
}

private void button3_Click(object sender, EventArgs e)
{
    DeleteRecord a = new DeleteRecord();
    a.Show();
}

private void button4_Click(object sender, EventArgs e)
{
    SearchRecord a = new SearchRecord();
    a.Show();
}
```

```
Following is the code for AddRecord Form

Following is the using statement for AddRecord Form

using System.Data.OleDb;

Following is the code for AddRecord Button

private void button1_Click(object sender, EventArgs e)

{
```

```
string cname = textBox1.Text;
            string caddress = textBox2.Text;
            string cmobileno = textBox3.Text;
            string cemail = textBox4.Text;
            OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0; Data
Source=c:\\csharpmsaccess\\contacts.accdb");
            OleDbCommand cmd = con.CreateCommand();
            con.Open();
            cmd.CommandText = "Insert into
contacts(cname,caddress,cmobileno,cemail) Values('" + cname + "','" + caddress +
"','" + cmobileno + "','" + cemail + "')";
            cmd.Connection = con;
            cmd.ExecuteNonQuery();
            MessageBox.Show("Contact Record Added");
            con.Close();
        }
Following is the code for ModifyRecord Form
Following is the using statement
using System.Data.OleDb;
Following is the code for Modify Contact Button
private void button1_Click(object sender, EventArgs e)
            string namestr = textBox1.Text;
            string addressstr = textBox1.Text;
            string mobilenostr = textBox3.Text;
            string emailstr = textBox4.Text;
            int rs = 0;
            OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0; Data
Source=c:\\csharpmsaccess\\contacts.accdb");
            con.Open();
            using var cmd = new OleDbCommand("update contacts set caddress='" +
addressstr + "',cmobileno='" + mobilenostr + "',cemail='" + emailstr + "' where
cname='" + namestr + "'", con);
            rs = cmd.ExecuteNonQuery();
            if (rs > 0)
            {
                MessageBox.Show(rs + " Contacts Record Updated");
            }
            else
                MessageBox.Show("Contact Record can't be Updated");
Following is the code for DeleteRecord Form
Following is the using statement
using System.Data.OleDb;
Following is the code for Delete Record Button
private void button1_Click(object sender, EventArgs e)
            string cname = textBox1.Text;
```

```
OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0; Data
Source=c:\\csharpmsaccess\\contacts.accdb");
            OleDbCommand cmd = con.CreateCommand();
            con.Open();
            cmd.CommandText = "delete from contacts where cname='" + cname + "'";
            cmd.Connection = con;
            cmd.ExecuteNonQuery();
            MessageBox.Show("Contact Record Deleted");
            con.Close();
        }
Following is the code for SearchRecord Form
Following is the using statement
using System.Data;
using System.Data.OleDb;
Following is the code for Search Button
private void button1_Click(object sender, EventArgs e)
            string cnamestr = textBox1.Text;
            OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0; Data
Source=c:\\csharpmsaccess\\contacts.accdb");
            con.Open();
string q = "SELECT * FROM contacts WHERE cname LIKE '%" + cnamestr +
11%111.
            using OleDbDataAdapter a = new OleDbDataAdapter(q, con);
            using DataTable t = new DataTable();
            a.Fill(t);
            dataGridView1.DataSource = t;
        }
```