

This is a mini-project I've developed using Windows Forms and ADO.NET.

It consists of five forms:

- 1.A registration form.
- 2.A successful login form (login button to redirect to login page & close button to close the from)
- 3.A login form that retrieves data from a database using ADO.NET,
4. A form demonstrating text alignment and color changes,
- 5.And finally, a form displaying database data in a DataGridView.

First page

The screenshot shows a Windows Forms application window titled 'Form1'. Inside the window is a 'Registration form' with the following fields and controls:

- FirstName**: Text box
- LastName**: Text box
- UserName**: Text box
- Email I'd**: Text box
- Mobile number**: Text box
- Gender**: Radio buttons for 'Male' (selected) and 'Female'
- Password**: Text box
- Cofirm Password**: Text box
- Date Of Birth**: Date picker showing '02 January 2025'
- Age**: Text box
- Languages known**: Checkboxes for 'English', 'Hindi', and 'Telugu'
- Country**: Dropdown menu
- State**: Dropdown menu
- District**: Dropdown menu
- Address**: Text box

At the bottom of the form are three buttons: 'LOGIN', 'Register', and 'Close'.

Code

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
using Microsoft.Win32;
using static System.Windows.Forms.VisualStyles.VisualStyleElement.ListView;
using static System.Windows.Forms.VisualStyles.VisualStyleElement;
```

```
using static System.Windows.Forms.VisualStyles.VisualStyleElement.Button;
```

```
namespace exam
```

```
{
    public partial class Form1 : Form
    {
        public string address, country, language, age, dateofbirth, username, firstname, lastname,
        password, confirmpassword, gender, emailid, mobilenumber;

        private void eid_TextChanged(object sender, EventArgs e)
        {
            emailid = eid.Text;
        }

        private void mn_TextChanged(object sender, EventArgs e)
        {
            mobilenumber = mn.Text;
        }

        private void psw_TextChanged(object sender, EventArgs e)
        {
            password = psw.Text;
        }

        private void cpsw_TextChanged(object sender, EventArgs e)
        {
            confirmpassword = cpsw.Text;
        }

        private void reg_Click(object sender, EventArgs e)
        {
            string state = State.Text;
            string District = district.Text;
            //if (un.Text == "check text" &&
            //psw.Text == "check text" && ln.Text == "check text")
            //{
            if (password == confirmpassword)
            {
                SqlConnection con = new SqlConnection("Data
source=HEMASUNDHAR1;Database=windowsforms;integrated security=yes");
                con.Open();
                string query = $"insert into forms
values('{firstname}','{lastname}','{username}','{gender}','{password}','{confirmpassword}','{emailid}','
{mobilenumber}','{address}','{dateofbirth}','{age}','{language}','{country}','{state}','{District}')";
                SqlCommand cmd = new SqlCommand(query, con);
                cmd.ExecuteNonQuery();
                con.Close();
                logIn logIn = new logIn();
                logIn.Show();
            }
        }
    }
}
```

```

        this.Hide();
    }
    else
    {
        MessageBox.Show("Password isn't matched");
    }
    //}
    //else
    //{
    //    MessageBox.Show("fill the blanks with valid data validation.");
    //}

}

private void close_Click(object sender, EventArgs e)
{
    this.Close();
}

private void eng_CheckedChanged(object sender, EventArgs e)
{
    language = eng.Text;
}

private void hin_CheckedChanged(object sender, EventArgs e)
{
    language = language + "," + hin.Text;
}

private void tel_CheckedChanged(object sender, EventArgs e)
{
    language = language + "," + tel.Text;
}

private void sho_Click(object sender, EventArgs e)
{
    credtainls credtainls = new credtainls();
    credtainls.Show();
    this.Hide();
}

private void State_SelectedIndexChanged(object sender, EventArgs e)
{
    district.Items.Clear();
    district.Text = "";
    if (count.SelectedItem.ToString() == "India")
    {

```

```

        switch (State.SelectedItem.ToString())
        {
            case "Andhra Pradesh": district.Items.AddRange(new string[] { "Anantapur", "Chittoor",
"East Godavari", "Alluri Sitarama Raju", "Anakapalli", "Annamaya", "Bapatla", "Eluru", "Guntur",
"Kadapa", "Kakinada", "Konaseema", "Krishna", "Kurnool", "Manyam", "N T Rama Rao", "Nandyal",
"Nellore", "Palnadu", "Prakasam", "Sri Balaji", "Sri Satya Sai", "Srikakulam", "Visakhapatnam",
"Vizianagaram", "West Godavari" }); break;
        }
    }

    private void district_SelectedIndexChanged(object sender, EventArgs e)
    {

    }

    private void adrr_TextChanged(object sender, EventArgs e)
    {
        address = adrr.Text;
    }

    private void count_SelectedIndexChanged(object sender, EventArgs e)
    {
        country = count.Text;
        State.Items.Clear();
        State.Text = "";
        district.Items.Clear();
        district.Text = "";
        switch (count.SelectedItem.ToString())
        {
            case "India": State.Items.AddRange(new string[] { "Andhra Pradesh", "Arunachal Pradesh",
"Assam", "Bihar", "Chhattisgarh", "Goa", "Gujarat", "Haryana", "Himachal Pradesh", "Jammu and
Kashmir", "Jharkhand", "Karnataka", "Kerala", "Madhya Pradesh", "Maharashtra", "Manipur",
"Meghalaya", "Mizoram", "Nagaland", "Odisha", "Punjab", "Rajasthan", "Sikkim", "Tamil Nadu",
"Telangana", "Tripura", "Uttar Pradesh", "Uttarakhand", "West Bengal" }); break;
        }
    }

    private void age2_TextChanged(object sender, EventArgs e)
    {
        age = age2.Text;
    }

    private void agecalcu_TextChanged(object sender, EventArgs e)
    {
    }

```

```

private void dtp_ValueChanged(object sender, EventArgs e)
{
    if (password == confirmpassword)
    {
        dateofbirth = dtp.Text;
    }
    else
    {
        MessageBox.Show("Password dosent match");
    }
}

private void un_TextChanged(object sender, EventArgs e)
{
    username = un.Text;
}

private void f_CheckedChanged(object sender, EventArgs e)
{
    gender = f.Text;
}

private void m_CheckedChanged(object sender, EventArgs e)
{
    gender = m.Text;
}

private void ln_TextChanged(object sender, EventArgs e)
{
    lastname = ln.Text;
}

public Form1()
{
    InitializeComponent();
}

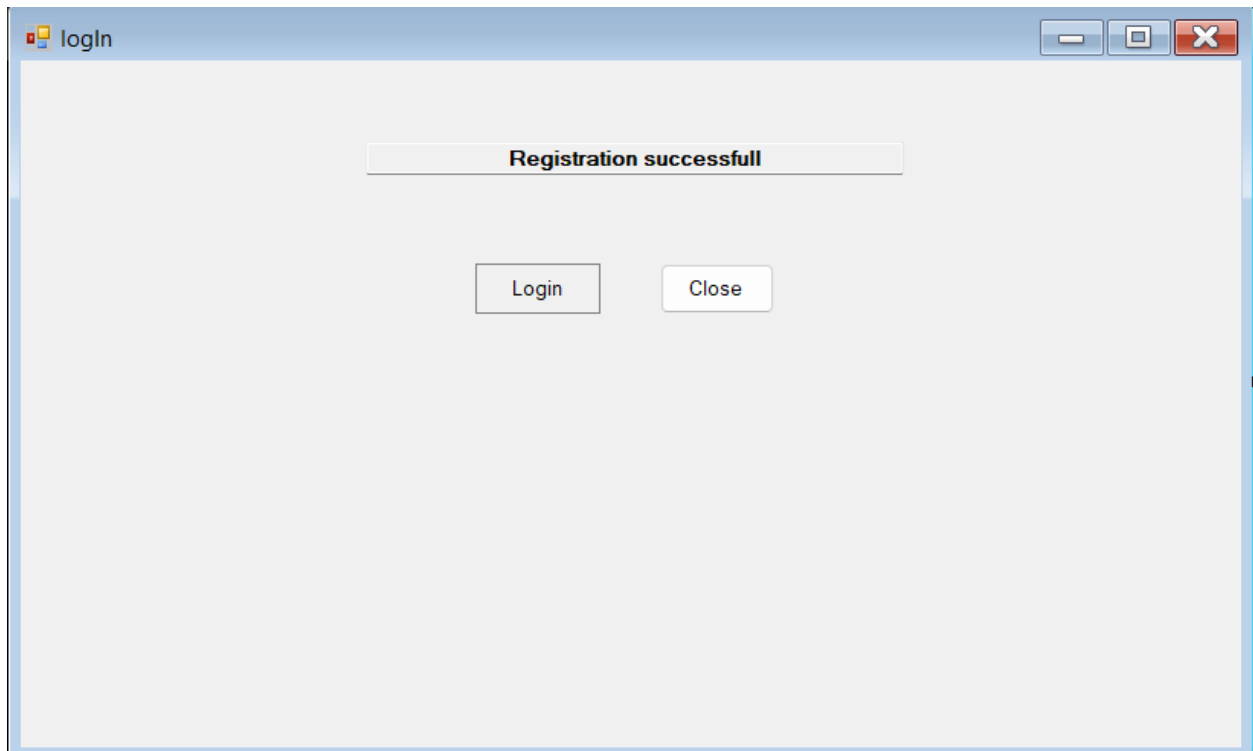
private void label2_Click(object sender, EventArgs e)
{
}

private void fn_TextChanged(object sender, EventArgs e)
{
    firstname = fn.Text;
}

```

```
}  
}
```

Second page



Code

```
using System;  
using System.Collections.Generic;  
using System.ComponentModel;  
using System.Data;  
using System.Drawing;  
using System.Linq;  
using System.Text;  
using System.Threading.Tasks;  
using System.Windows.Forms;  
  
namespace exam  
{  
    public partial class logIn : Form  
    {  
        public logIn()  
    }  
}
```

```

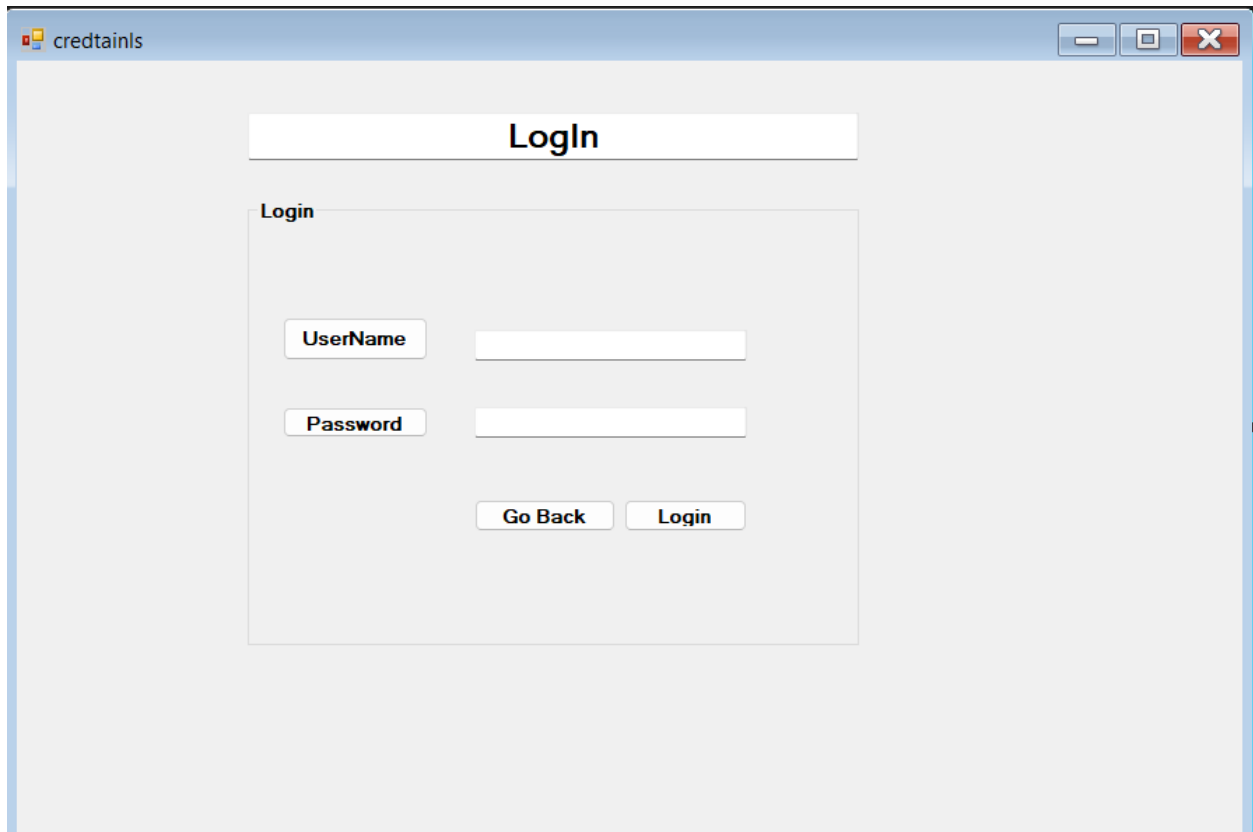
{
    InitializeComponent();
}

private void button1_Click(object sender, EventArgs e)
{
    credtainls credtainls = new credtainls();
    credtainls.Show();
    this.Hide();
}

private void button2_Click(object sender, EventArgs e)
{
    this.Close();
}
}
}

```

Third page



The screenshot shows a Windows application window with the title bar 'credtainls'. The window contains a login form with the following elements:

- A title bar with the text 'credtainls' and standard Windows window controls (minimize, maximize, close).
- A central panel with a light gray background containing the login form.
- At the top of the central panel, a white rectangular box with the text 'Login' in bold black font.
- Below the title box, the word 'Login' is written in a smaller, bold black font.
- Two input fields for 'UserName' and 'Password', each preceded by a label in a white box with a gray border.
- At the bottom of the input fields, two buttons: 'Go Back' and 'Login', both in white boxes with gray borders.

Code

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using static System.Windows.Forms.VisualStyles.VisualStyleElement.Button;
using static System.Windows.Forms.VisualStyles.VisualStyleElement.StartPanel;

namespace exam
{
    public partial class credtainls : Form
    {
        public string username, password;
        public credtainls()
        {
            InitializeComponent();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            try
            {
                SqlConnection conn = new SqlConnection("Data
source=HEMASUNDHAR1;database=windowsforms;integrated security=yes");
                conn.Open();
                string query = "SELECT * FROM forms WHERE username = @username AND
password = @password";
                SqlCommand fetchcommand = new SqlCommand(query, conn);
                fetchcommand.Parameters.AddWithValue("@username", username);
                fetchcommand.Parameters.AddWithValue("@password", password);
                SqlDataReader reader = fetchcommand.ExecuteReader();
                if (reader.HasRows)
                {
                    MessageBox.Show("Login successfully");
                    align align = new align();
                    align.Show();
                }
            }
            catch { }
        }
    }
}
```



```
        this.Hide();
    }
}
catch (Exception)
{
    MessageBox.Show("Please check login credentials");
}

}

private void textBox3_TextChanged(object sender, EventArgs e)
{

    password = textBox3.Text;

}

private void button4_Click(object sender, EventArgs e)
{
    Form1 regis=new Form1();
    regis.Show();
    this.Hide();
}

private void textBox2_TextChanged(object sender, EventArgs e)
{
    username = textBox2.Text;
}
}
}
```

Fourth page

align

Alignment

☐ Left

☐ Right

☐ Center

Text Color

☐ Blue

☐ Green

☐ Yellow

☐ Red

☐ Brown

☐ Purple

☐ Magenta

☐ Gray

☐ Orange

☐ Cyan

Go back

Data Grid View

Code

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
//using System.Data.SqlClient;
using static System.Windows.Forms.VisualStyles.VisualStyleElement.StartPanel;

namespace exam
{
    public partial class align : Form
    {

```

```
public string address, country, language, age, dateofbirth, username, firstname,
lastname, password, confirmpassword, gender, emailid, mobilenumbers;
```

```
private void radioButton10_CheckedChanged(object sender, EventArgs e)
{
    textBox1.ForeColor = Color.Magenta;
}
```

```
private void radioButton11_CheckedChanged(object sender, EventArgs e)
{
    textBox1.ForeColor = Color.Gray;
}
```

```
private void radioButton12_CheckedChanged(object sender, EventArgs e)
{
    textBox1.ForeColor = Color.Orange;
}
```

```
private void radioButton13_CheckedChanged(object sender, EventArgs e)
{
    textBox1.ForeColor = Color.Cyan;
}
```

```
private void button1_Click(object sender, EventArgs e)
{
    credtainls credtainls = new credtainls();
    credtainls.Show();
    this.Hide();
}
```

```
private void button2_Click(object sender, EventArgs e)
{
    gridview gridview = new gridview();
    gridview.Show();
    this.Hide();
}
```

```
private void radioButton9_CheckedChanged(object sender, EventArgs e)
{
    textBox1.ForeColor = Color.Purple;
}
```

```
private void radioButton8_CheckedChanged(object sender, EventArgs e)
{
    textBox1.ForeColor = Color.Brown;
}
```

```

    }

    private void radioButton7_CheckedChanged(object sender, EventArgs e)
    {
        textBox1.ForeColor = Color.Red;
    }

    private void radioButton6_CheckedChanged(object sender, EventArgs e)
    {
        textBox1.ForeColor = Color.Yellow;
    }

    private void radioButton5_CheckedChanged(object sender, EventArgs e)
    {
        textBox1.ForeColor = Color.Green;
    }

    private void radioButton4_CheckedChanged(object sender, EventArgs e)
    {
        textBox1.ForeColor = Color.Blue;
    }

    private void radioButton3_CheckedChanged(object sender, EventArgs e)
    {
        textBox1.TextAlign = HorizontalAlignment.Center;
    }

    private void radioButton2_CheckedChanged(object sender, EventArgs e)
    {
        textBox1.TextAlign = HorizontalAlignment.Right;
    }

    private void radioButton1_CheckedChanged(object sender, EventArgs e)
    {
        textBox1.TextAlign = HorizontalAlignment.Left;
    }

    public align()
    {
        InitializeComponent();
    }

    private void LoadData()
    {

```

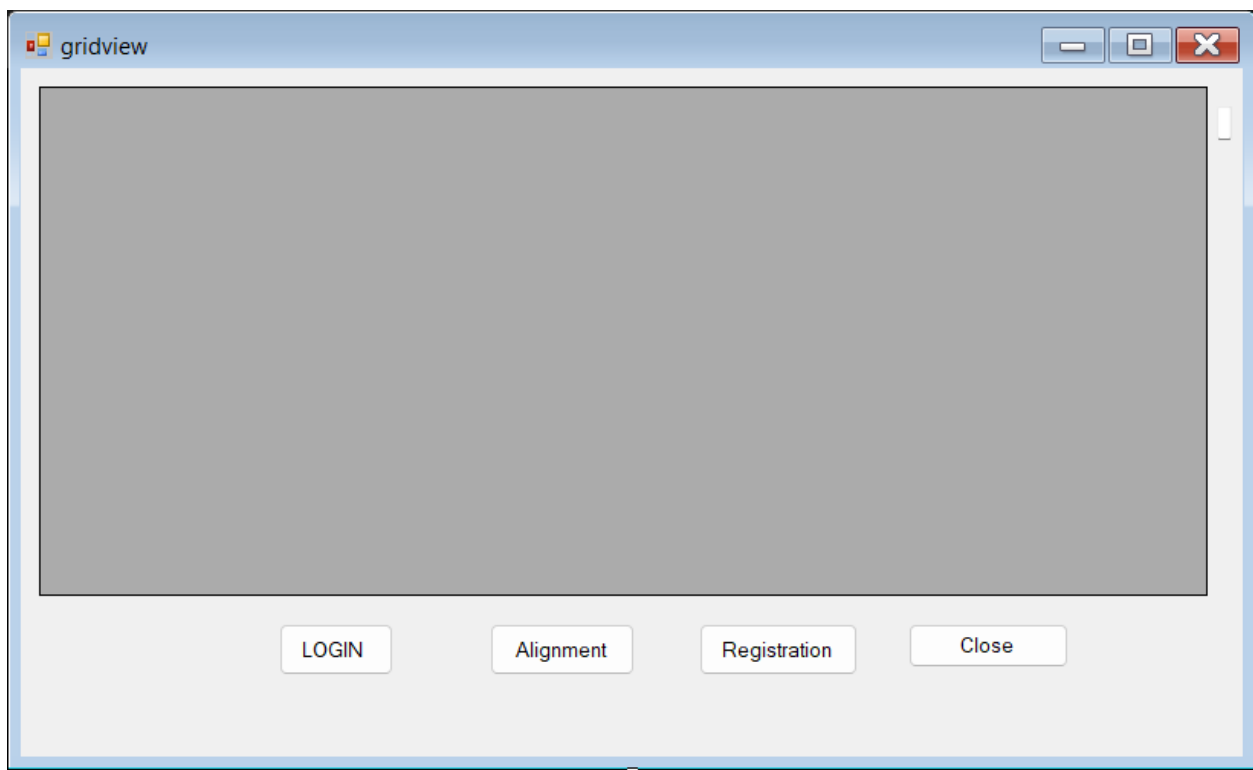
```

        LoadData();
    }

    private void textBox1_TextChanged(object sender, EventArgs e)
    {
    }
}

```

Fifth page



Code

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;

```

```
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using static System.Windows.Forms.VisualStyles.VisualStyleElement;
```

```
namespace exam
```

```
{
    public partial class gridview : Form
    {
        public gridview()
        {
            InitializeComponent();

            private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs
e)
            {
                if (e.RowIndex >= 0 && e.ColumnIndex >= 0)
                {
                    dataGridView1.Rows[e.RowIndex].Cells[e.ColumnIndex].Value.ToString();
                }
            }

            private void button1_Click(object sender, EventArgs e)
            {
                credtainls logIn = new credtainls();
                logIn.Show();
                this.Hide();
            }

            private void button3_Click(object sender, EventArgs e)
            {
                align align = new align();
                align.Show();
                this.Hide();
            }

            private void button2_Click(object sender, EventArgs e)
            {
                Form1 form1 = new Form1();
                form1.Show();
                this.Hide();
            }
        }
    }
}
```

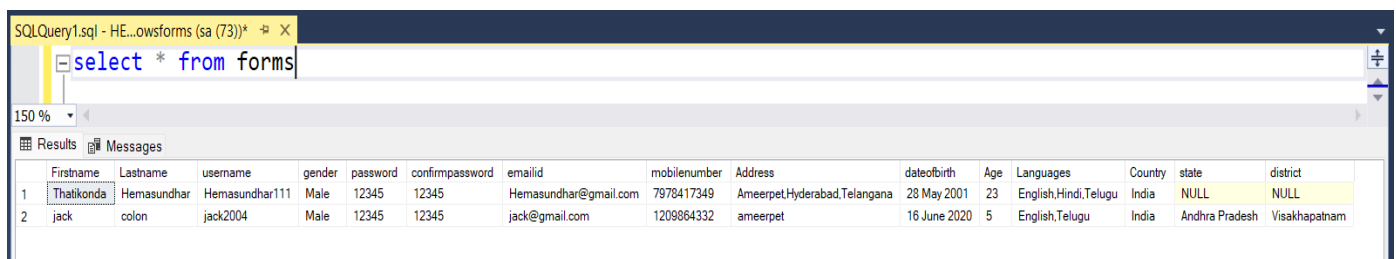
```

private void button4_Click(object sender, EventArgs e)
{
    this.Close();
}

private void maskedTextBox1_MaskInputRejected(object sender,
MaskInputRejectedEventArgs e)
{
    using (SqlConnection conn = new SqlConnection("Data
source=HEMASUNDHAR1;database=windowsforms;integrated security=yes"))
    {
        try
        {
            conn.Open();
            string query = "SELECT * FROM forms";
            SqlDataAdapter da = new SqlDataAdapter(query, conn);
            DataTable dt = new DataTable();
            da.Fill(dt);
            dataGridView1.DataSource = dt;
        }
        catch (Exception ex)
        {
            MessageBox.Show("Error: " + ex.Message);
        }
    }
}
}

```

Sql database checking



The screenshot shows a SQL query window with the query "select * from forms". Below the query, a table of results is displayed. The table has 14 columns: Firstname, Lastname, username, gender, password, confirmpassword, emailid, mobilenumber, Address, dateofbirth, Age, Languages, Country, state, and district. There are two rows of data.

	Firstname	Lastname	username	gender	password	confirmpassword	emailid	mobilenumber	Address	dateofbirth	Age	Languages	Country	state	district
1	Thatikonda	Hemasundhar	Hemasundhar111	Male	12345	12345	Hemasundhar@gmail.com	7978417349	AmeerpetHyderabad,Telangana	28 May 2001	23	English,Hindi,Telugu	India	NULL	NULL
2	jack	colon	jack2004	Male	12345	12345	jack@gmail.com	1209864332	ameerpet	16 June 2020	5	English,Telugu	India	Andhra Pradesh	Visakhapatnam

-----The End-----