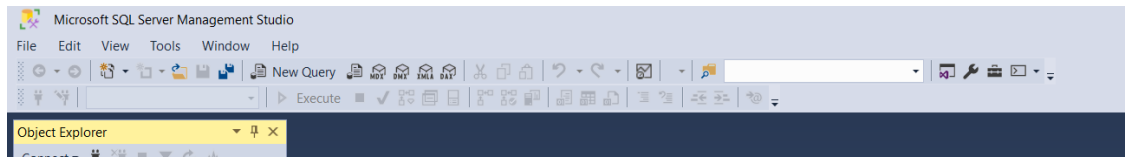


Создание и подключение Базы данных к Windows Form

1. Заходим в sql Server Managent , подключаемся и создаём там базу данных



2. Далее создаём таблицу с помощью sql запроса
3. Создаём новый запрос, который позволит вставить данные в нашу таблицу.
4. Переходим в Visual Studio, создадим проект Windows Form и подключим базу данных к нему. Нам нужно создать класс, для соединения базы данных к проекту.

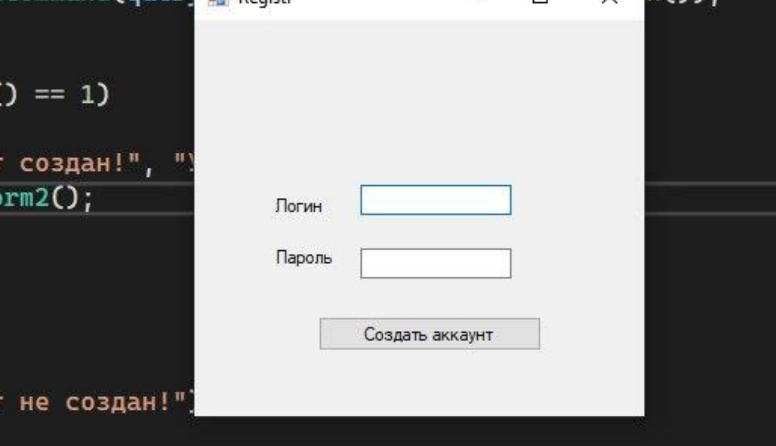
```
using System;using System.Collections.Generic;
using System.ComponentModel;using System.Data;
using System.Drawing;using System.Linq;
using System.Text;using System.Threading.Tasks;
using System.Windows.Forms;
namespace DanaCh{
    public partial class Form1 : Form {
        Class1 dataBase = new Class1();    public Form1()
        {
            InitializeComponent();
        }
        private void Form1_Load(object sender, EventArgs e)    {
        }
    }
}
```

```
using System;using System.Collections.Generic;
using System.Data.SqlClient;using System.Linq;
using System.Text;using System.Threading.Tasks;
using System.Windows.Forms;
namespace DanaCh
{
    internal class Class1
    {
        SqlConnection sqlConnection = new SqlConnection(@"Data Source = DESKTOP-2HL4ATJ;
Initial Catalog = t; Integrated Security = True");
        public void openConnection()
        {
            if (sqlConnection.State == System.Data.ConnectionState.Closed) {
sqlConnection.Open(); }
        }
        public void closeConnection()    {
            if (sqlConnection.State == System.Data.ConnectionState.Open) { sqlConnection.Close(); }
        }
        public SqlConnection getConnection()
        {
            return sqlConnection;
        }
    }
    //public partial class Form1 : Form
    //{
    //    DataBase dataBase = new DataBase();
}
```

```
// public Form1() // {
//     InitializeComponent(); // }

// private void Form1_Load(object sender, EventArgs e) // {
// }
//} }
```

Практическая работа 2 Регистрация и авторизация



The screenshot displays a Windows application window titled "Registr". Inside the window, there is a registration form with two text input fields. The first field is labeled "Логин" (Login) and the second field is labeled "Пароль" (Password). Below these fields is a button labeled "Создать аккаунт" (Create account). The background of the image shows a code editor with C# code, including lines like `new SqlCommand(query, connection);` and `new Form2();`, suggesting the application is being developed in Visual Studio.

```

40 string querystring = $"insert into register(login_user, password_user) values('{login}', '{password}')";
41 SqlCommand command = new SqlCommand(querystring, database.GetConnection());
42
43 database.openConnection();
44 if (command.ExecuteNonQuery() == 1)
45 {
46     MessageBox.Show("Аккаунт создан!", "Ура!");
47     Form2 frm_login = new Form2();
48     this.Hide();
49     frm_login.ShowDialog();
50 }
51 else
52 {
53     MessageBox.Show("Аккаунт не создан!");
54 }
55 database.closeConnection();
56
57
58
59 private void Form1_Load(object sender, EventArgs e)
60 {
61
62 }
63

```

```

16 public partial class Form1 : Form
17 {
18     Class1 database = new Class1();
19     Ссылка 2 public Form1()
20     {
21         InitializeComponent();
22     }
23
24     Ссылка 1 private void label2_Click(object sender, EventArgs e)
25     {
26     }
27
28
29     private void label1_Click(object sender, EventArgs e)
30     {
31     }
32
33
34     private void button1_Click(object sender, EventArgs e)
35     {
36
37         var login = textBox1.Text;
38         var password = textBox2.Text;
39
40         string querystring = $"insert into register(login_user, password_user) values('{login}', '{password}')";

```

Практическая работа DataGridView

DataGridView — это элемент управления в Windows Forms, который предназначен для отображения и редактирования данных в табличном формате

```
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;

namespace bd_boch_3
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
            LoadData();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
        }

        private void LoadData() {
            string connectionString = "Data Source=DESKTOP-U1U3DFA;Initial Catalog=loli;" +
            "Integrated Security=true;";
            SqlConnection myConnection = new SqlConnection(connectionString);

            myConnection.Open();

            string query = "SELECT * FROM Faculties ORDER BY fac_id";

            SqlCommand command = new SqlCommand(query, myConnection);
            SqlDataReader reader = command.ExecuteReader();

            List<string[]> data = new List<string[]>();
            while (reader.Read())
            {
                data.Add(new string[3]);
                data[data.Count - 1][0] = reader["fac_id"].ToString();
                data[data.Count - 1][1] = reader["fac_name_full"].ToString();
                data[data.Count - 1][2] = reader["fac_name_abbr"].ToString();
            }
            reader.Close();
        }
    }
}
```

```

myConnection.Close();

foreach (string[] s in data)
    dataGridView1.Rows.Add(s);

}

private void button1_Click(object sender, EventArgs e)
{
    string facNameFull = textBox1.Text;
    string facNameAbbr = textBox2.Text;

    string connectionString = "Data Source=DESKTOP-U1U3DFA;Initial Catalog=loli;" +
    "Integrated Security=true;";
    using (SqlConnection myConnection = new SqlConnection(connectionString))
    {
        myConnection.Open();
        string query = "SELECT * FROM FacultiesTist2 ORDER BY fac_id";
        using (SqlCommand command = new SqlCommand(query, myConnection))
        {
            command.Parameters.AddWithValue("@fullName", facNameFull);
            command.Parameters.AddWithValue("@abbr", facNameAbbr);

            int nowId = Convert.ToInt32(command.ExecuteScalar());

            dataGridView1.Rows.Add(new object[] {nowId, facNameFull, facNameAbbr});
        }
    }
    textBox1.Clear();
    textBox2.Clear();
}
}
}

```

```

1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Data.SqlClient;
6  using System.Drawing;
7  using System.Linq;
8  using System.Text;
9  using System.Threading.Tasks;
10 using System.Windows.Forms;
11
12 namespace bd_boch_3
13 {
14     Ссылка 3
15     public partial class Form1 : Form
16     {
17         Ссылка 1
18         public Form1()
19         {
20             InitializeComponent();
21             LoadData();
22         }
23         Ссылка 1
24         private void Form1_Load(object sender, EventArgs e)
25         {
26         }
27         Ссылка 1
28         private void LoadData() {
29             string connectionString = "Data Source=DESKTOP-U1U3DFA;Initial Catalog=loli;" + "Integrated Security=true;";
30             SqlConnection myConnection = new SqlConnection(connectionString);
31             myConnection.Open();
32             string query = "SELECT * FROM Faculties ORDER BY fac_id";

```

```

26 private void LoadData() {
27     string connectionString = "Data Source=DESKTOP-U1U3DFA;Initial Catalog=loli;" + "Integrated Security=true;";
28     SqlConnection myConnection = new SqlConnection(connectionString);
29
30     myConnection.Open();
31
32     string query = "SELECT * FROM Faculties ORDER BY fac_id";
33
34     SqlCommand command = new SqlCommand(query, myConnection);
35     SqlDataReader reader = command.ExecuteReader();
36
37     List<string[]> data = new List<string[]>();
38     while (reader.Read())
39     {
40         data.Add(new string[3]);
41         data[data.Count - 1][0] = reader["fac_id"].ToString();
42         data[data.Count - 1][1] = reader["fac_name_full"].ToString();
43         data[data.Count - 1][2] = reader["fac_name_abbr"].ToString();
44     }
45     reader.Close();
46     myConnection.Close();
47
48     foreach (string[] s in data)
49         dataGridView1.Rows.Add(s);
50 }
51
52
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```

```

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```

using System;

US Form1

	fac_id	fac_name_id	fac_name_abbr
	10	Сергей	ФСПО
	20	Илья	ФСПО
	30	Дана	ФСПО
▶	0	Кирилл	ФСПО
*			

Добавить

Ссылка: 1

```

private void Form1_Load(object sender, EventArgs e)
{
}

```