

DataBase.cs

```
using System.Data.SqlClient;

namespace Formsy
{
    internal class DataBase
    {
        SqlConnection sqlConnection;

        public DataBase(int conn)
        {
            if (conn == 1)
                sqlConnection = new SqlConnection(@"Data
Source=(localdb)\Local;Initial Catalog=Praktika;Integrated Security=True");
            else if (conn == 2)
                sqlConnection = new SqlConnection(@"Data
Source=(localdb)\Local;Initial Catalog=Faculties;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; }
    }
}
```

Faculties.cs

```
using System;
using System.Collections;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Windows.Forms;

namespace Formsy
{
    public partial class Faculties : Form
    {
        public Faculties()
        {
            InitializeComponent();

            private void Faculties_Load(object sender, EventArgs e)
            {
                DataBase database = new DataBase(2);
                database.openConnection();

                string query = "select * from Faculties order by st_id";
                SqlCommand command = new SqlCommand(query, database.getConnection());
                SqlDataReader reader = command.ExecuteReader();
            }
        }
    }
}
```

```

List<string[]> data = new List<string[]>();
while (reader.Read())
{
    data.Add(new string[3]);

    data[data.Count - 1][0] = reader[0].ToString();
    data[data.Count - 1][1] = reader[1].ToString();
    data[data.Count - 1][2] = reader[2].ToString();

}
reader.Close();
database.closeConnection();

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

private void button2_Click(object sender, EventArgs e)
{
    Form1 form= new Form1();
    form.ShowDialog();
    this.Hide();
}

private void button1_Click(object sender, EventArgs e)
{
    DataBase database = new DataBase(2);

    string surname = textBox1.Text;
    string name = textBox2.Text;

    DataTable table = new DataTable();
    string querystring = "select * from Faculties";
    SqlCommand command2 = new SqlCommand(querystring,
database.getConnection());
    SqlDataAdapter adapter = new SqlDataAdapter();
    adapter.SelectCommand = command2;
    adapter.Fill(table);

    int id = table.Rows.Count + 1;

    string query = $"insert into Faculties (st_id, st_surname, st_name)
values ('{id}', '{surname}', '{name}')"; select scope_identity();";
    SqlCommand command = new SqlCommand(query, database.getConnection());
    database.openConnection();

    if (command.ExecuteNonQuery() == 1)
    {
        dataGridView1.Rows.Add(new object[] { id, surname, name });
        textBox1.Clear();
        textBox2.Clear();
    }
}
}
}

```

Faculties

	ID	Surname	Name
▶	1	Артышко	Конста
	2	Бондарев	Дании
	3	Воронина	Анна
	4	Гарифуллин	Артем
	5	????????	????
*			

Добавить

← Назад

Faculties

	ID	Surname	Name
▶	1	Артышко	Конста
	2	Бондарев	Дании
	3	Воронина	Анна
	4	Гарифуллин	Артем
	5	????????	????
	6	Deryabin	Zahar
*			

Добавить

← Назад

Results		Messages	
	st_id	st_surname	st_name
1	1	Артышко	Константин
2	2	Бондарев	Даниил
3	3	Воронина	Анна
4	4	Гарифуллин	Артем
5	5	????????	????
6	6	Deryabin	Zahar