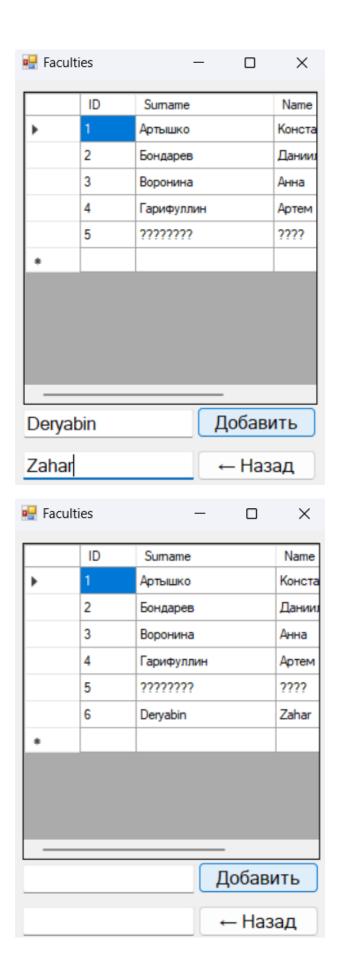
DataBase.cs

```
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();
            }
       }
   }
}
```



⊞ 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