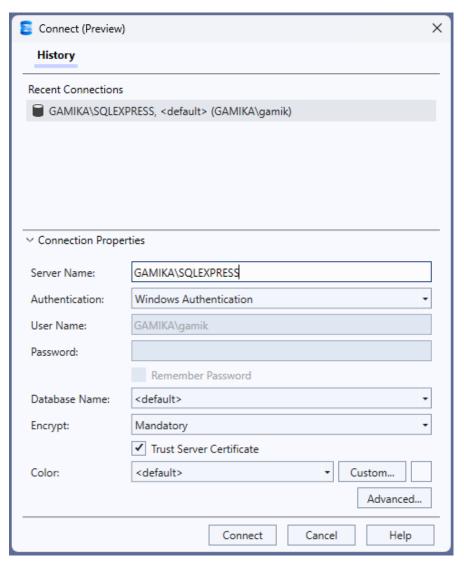
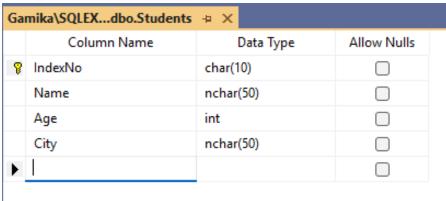
Exercise 01

Step 01: Create a new database

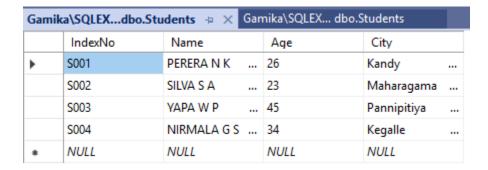




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Step 02: Install Required Package (NuGet)

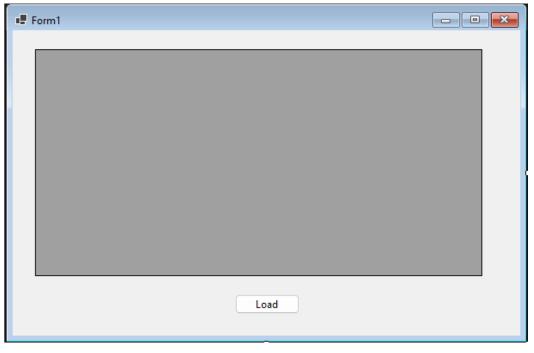


Step 03: Create the Windows Forms App

Step 04: Add These Using Directives at the Top of the Code File

using System.Data.SqlClient;
using System.Data;

Step 05: Add Controls to the Form



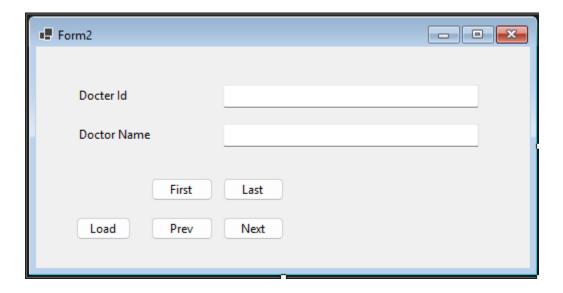
```
using System.Data.SqlClient;
using System.Data;
namespace DatabaseTest
    public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        private void Form1_Load(object sender, EventArgs e)
        }
        private void button1_Click(object sender, EventArgs e)
            string connectionString = "Data Source=GAMIKA\\SQLEXPRESS;Initial
Catalog=StudentDB;Integrated Security=True";
            string sql = "SELECT * FROM Students";
            SqlConnection connection = new SqlConnection(connectionString);
            SqlDataAdapter adapter = new SqlDataAdapter(sql, connection);
            DataSet ds = new DataSet();
            try
                connection.Open();
                adapter.Fill(ds);
```

```
catch (SqlException ex)
                 MessageBox.Show("SQL Error: " + ex.Message);
             finally
                 connection.Close();
             dataGridView1.DataSource = ds.Tables[0];
        }
    }
}
 Form1
                                                                               ×
           IndexNo
                              Name
                                                Age
                                                                  City
           S001
                             PERERA N K
                                             ... 26
                                                                  Kandy
                                             ... 23
           S002
                             SILVA S A
                                                                  Maharagama
           S003
                             YAPA W P
                                                                  Pannipitiya
                                               45
           S004
                             NIRMALA G S
                                             ... 34
                                                                  Kegalle
                                           Load
```

Exercise 02

Step 01: Design Your Form

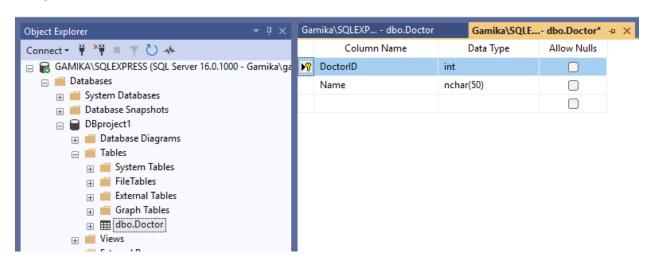
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Step 02: Add Required Namespaces

```
using System.Data;
using System.Data.SqlClient;
```

Step 03: Create a new database



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Gamika\SQLEX dbo.Doctor ⇔ × Ga			ımika\SQ
	DoctorID	Name	
	1	KUMARA N K	
	2	SILVA Y K	
	3	YAPA W K	
	4	MALANINH	
þw.	NULL	NULL	

Step 04:

```
private void btnLoad_Click(object sender, EventArgs e)
{
    connection = new SqlConnection("Data Source=GAMIKA\\SQLEXPRESS;Initial
Catalog=StudentDB;Integrated Security=True");
    adapter = new SqlDataAdapter("SELECT * Doctor", connection);

    dataTable = new DataTable();
    adapter.Fill(dataTable);

    BindingSource.DataSource = dataTable;
    txtIndexNo.DataBindings.clear();
    txtName.DataBindings.Clear();

    txtIndexNo.DataBindings.Add("Text", BindingSource, "DoctorID");
    txtName.DataBindings.Add("Text", BindingSource, "Name");
}
```

Step 05: Add Navigation Button Functionalities

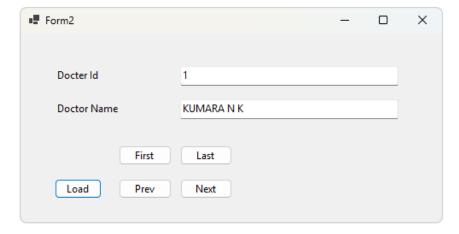
```
private void btnFirst_Click(object sender, EventArgs e)
{
    BindingSource.MoveFirst();
}

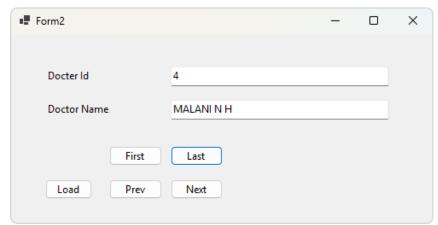
private void btnLast_Click(object sender, EventArgs e)
{
    BindingSource.MoveLast();
}

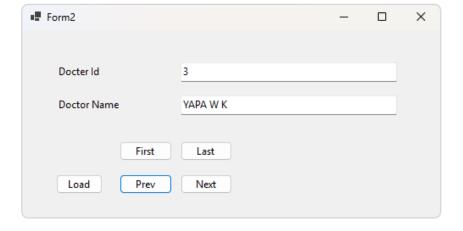
private void btnPrev_Click(object sender, EventArgs e)
{
    BindingSource.MovePrevious();
}

private void btnNext_Click(object sender, EventArgs e)
{
    BindingSource.MoveNext();
}
```

Step 05: Step Run the application by pressing F5







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