

Pract no. 3: Creating Applications with data (CRUD).

Q.1: How to Connect and Use Local Database in Visual Studio 2025

Dbo.Table

```
CREATE TABLE [dbo].[Customers]
(
    [Id] INT NOT NULL PRIMARY KEY,
    [FullName] NVARCHAR(100) NULL,
    [Email] VARCHAR(150) NULL,
    [Address] NVARCHAR(500) NULL,
    [Phone] VARCHAR(25) NULL,
    [Gender] BIT NULL
)
```

Connection String : Data

```
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\Database.mdf;Integrated
Security=True
```

Form.cs

```
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 LocalDB
```

```
{
```

```
    public partial class Form1 : Form
```

```
    {
```

```
        public Form1()
```

```
        {
```

```
            InitializeComponent();
```

```
        }
```

```
        private void CustomersBindingNavigatorSaveItem_Click(object sender, EventArgs e)
```

```
        {
```

```
            this.Validate();
```

```
            this.customersBindingSource.EndEdit();
```

```
            this.tableAdapterManager.UpdateAll(this.modelDataSet);
```

```
        }
```

```
        private void Form1_Load(object sender, EventArgs e)
```

```
        {
```

```
            // TODO: This line of code loads data into the 'modelDataSet.Customers' table. You can  
            move, or remove it, as needed.
```

```
            this.customersTableAdapter.Fill(this.modelDataSet.Customers);
```

```
}
```

```
private void GenderCheckBox_CheckedChanged(object sender, EventArgs e)
```

```
{
```

```
    if (genderCheckBox.CheckState == CheckState.Checked)
```

```
        genderCheckBox.Text = "Male";
```

```
    else if (genderCheckBox.CheckState == CheckState.Unchecked)
```

```
        genderCheckBox.Text = "Female";
```

```
    else
```

```
        genderCheckBox.Text = "??";
```

```
}
```

```
}
```

```
}
```