Exercise 2

Phase 2. Prototype with a local connection (eLibrary_v2)

Make a copy of the entire folder eLibrary_v1 and rename it as eLibrary_v2. Open the new project folder.

2.1. On the server side: Creating a Dataset

Step 1

Add a new dataset in the project eLibraryServer: - "biblioDataSet"

Step 2

In the panel Server Explorer: add a connection to the file **biblio.mdf** (**Data> Add New Datasource**, select Microsoft SQL server Database File)

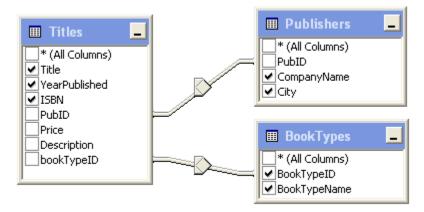
Note: If the database is not in the project and the system asks you to copy biblio.mdf file in the project, reply yes.

Step 3

The database contains 3 tables:

Titles, Publishers, BookTypes

Create a view *Books* in the database.



Step 4

In biblioDataSet: Drag and drop the object from the .MDF file in biblioDataSet:

Step 5

Add the function **getELibraryDataSet()** in the empty class DAL:

```
public DataSet getELibraryDataSet()
{
    biblioDataSet ds = new biblioDataSet();
    biblioDataSetTableAdapters.BooksTableAdapter booksTA=new biblioDataSetTableAdapters.BooksTableAdapter();
    booksTA.Fill(ds.Books);

    biblioDataSetTableAdapters.BookTypesTableAdapter bookTypesTA=new biblioDataSetTableAdapters.BookTypesTableAdapter bookTypesTA.Fill(ds.BookTypes);
    return ds;
}
```

2. From the client side: Connect to the server module

Step 1

In the form frmMain:

Define a public variable:

```
public DataSet dsELibrary;
```

Set the *Enabled* property to *false* to menu mnuBooks:

```
mnuBooks.Enabled = false;
```

Add the following code to mnuConectToServer_Click:

Step 2

In the form frmBooks

Fill the list with booktypes by a method for handling event Load

- Add a method for the *SelectedIndexChanged* event *on* **listBookTypes** to display the selected values – Refreshing gridview content.

```
private void listBookTypes_SelectedIndexChanged(object sender, EventArgs e)
{
    String strValue="";
    Int32 iValue;
    if (listBookTypes.SelectedIndex >= 0)
    {        strValue = listBookTypes.SelectedValue.ToString();
            iValue = listBookTypes.SelectedIndex + 1;
            lblBookTypes.Text = "Selected category: " + strValue;
            frmMain.dsELibrary.Tables["Books"].DefaultView.RowFilter = "BookTypeID = " + iValue.ToString();
            dataGridView1.DataSource = frmMain.dsELibrary.Tables["Books"].DefaultView;
    }
    else if (listBookTypes.SelectedIndex == -1)
    {
        lblBookTypes.Text = "Selected category: " + strValue;
    }
}
```

