

Lab Assignment #4

Create a Windows multi-tier (i.e. AuthorsForm.cs, AuthorsDataTier.cs) that update the authors table in the Pubs.mdf database. Use individual text boxes for display and data entry but make sure that user can enter data only in Edit or Add model.

Your application should include:

- Buttons Navigation and combobox
- Operations: Add, Delete, Edit, MoveFirst, MoveNext, MovePrevious, MoveLast.

Given:

- Please use pubs.mdf
- You can also see Week 5 handsOn as reference.

Sample application – menubar, toolbar, statusbar

The screenshot shows a Windows application window titled "Authors". The window has a menu bar with "File" and "Help". Below the menu bar is a toolbar with icons for adding, editing, deleting, and navigating records. The main area contains form fields for Author ID (172-32-1176), Last Name (White), First Name (Johnson), Address (10932 Bigge Rd.), City (Menlo Park), State (CA), Zip (94025), Phone (408 496-7223), and Contract (checked). There are buttons for Add, Delete, and Edit. The status bar at the bottom shows "Record 1 of 23".

On button “Add”

The screenshot shows a window titled "Authors" with a menu bar containing "File" and "Help". Below the menu bar is a toolbar with a list icon, a text input field for "Author ID:", and icons for adding (+), editing (pencil), deleting (X), and navigating (arrows). The main area contains several input fields: "Last Name:", "First Name:", "Address:", "City:", "State:", "Zip:", "Phone:", and a "Contract:" checkbox which is checked. To the right of these fields are three buttons: "Save", "Cancel", and "Edit". The status bar at the bottom left displays the word "Adding".

On button “Edit”

The screenshot shows the same "Authors" window, but now in "Editing" mode. The "Author ID:" field contains the value "998-72-356". The "Last Name:" field contains "Ringer" and is selected. The "First Name:" field contains "Albert". The "Address:" field contains "67 Seventh Av.". The "City:" field contains "Salt Lake City". The "State:" field contains "UT" and the "Zip:" field contains "84152". The "Phone:" field contains "801 826-0752". The "Contract:" checkbox remains checked. The "Save", "Cancel", and "Edit" buttons are still present. The status bar at the bottom left now displays the word "Editing".

Optionally, you can also try a simpler approach by using standard combobox and navigation buttons without Toolstrip for toolbar as shown above.

The screenshot shows a window titled "Authors" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains a form with the following fields and controls:

- File**: A menu bar item.
- Author ID:** A dropdown menu showing "172-32-1176".
- Last Name:** A text input field containing "White".
- First Name:** A text input field containing "Johnson".
- Phone:** A text input field containing "408 496-7223".
- Address:** A text input field containing "10932 Bigge Rd."
- City:** A text input field containing "Menlo Park".
- State:** A text input field containing "CA".
- Zip:** A text input field containing "94025".
- Contract:** A checkbox that is checked.
- Buttons:** Three buttons are located on the right side of the form: "Add", "Delete", and "Edit".
- Navigation:** Four buttons are located at the bottom of the form: "<|", "<", ">", and ">|".
- Status Bar:** At the bottom of the window, it says "Record 1 of 23".