

# CMPE2550 – ASP ICA05 – mySQL and Data Manipulation

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In this assignment, you will reinforce your familiarity with the mySQL RDMS and use PHP to execute data manipulation queries against a mySQL database.

As with the previous assignments [**ICA03 and ICA04**], most of what you have already learned while working with SQL Server is still valid if you adhere to ANSI SQL syntax, but not everything. As a reference, you will want to refer to W3Schools for general mySQL differences.

<https://www.w3schools.com/MySQL/>

You may also encounter some differences between storage engines or versions of mySQL. For instance, some storage engines ignore foreign key constraints and they all ignore check constraints before mySQL version 8.0.15.

## Begin with Slight Adjustments to Assignment 04

To avoid reinventing the wheel, copy all of your files from Assignment04 into a new Assignment05 folder. Once this is completed, now you can add this functionality.

### Adding New Books

We shall allow for new books to be added. Add a block at the bottom of the page similar to that seen in the following image (the top of the page, which is same as in ICA04, has been truncated to show everything at the bottom for ICA05 part):

Retrieve	238-95-7766	Carson	Cheryl	415 548-7723
Retrieve	722-51-5454	DeFrance	Michel	219 547-9982
Retrieve	712-45-1867	del Castillo	Innes	615 996-8275
Retrieve	427-17-2319	Dull	Ann	415 836-7128
Retrieve	213-46-8915	Green	Marjorie	415 986-7020
Retrieve	527-72-3246	Greene	Morningstar	615 297-2723
Retrieve	472-27-2349	Gringlesby	Burt	707 938-6445
Retrieve	846-92-7186	Hunter	Sheryl	415 836-7128
Retrieve	756-30-7391	Karsen	Livia	415 534-9219
Retrieve	486-29-1786	Locksley	Charlene	415 585-4620
Retrieve	724-80-9391	MacFeather	Stearns	415 354-7128
Retrieve	893-72-1158	McBadden	Heather	707 448-4982
Retrieve	267-41-2394	O'Leary	Michael	408 286-2428
Retrieve	807-91-6654	Panteley	Sylvia	301 946-8853
Retrieve	899-46-2035	Ringer	Anne	801 826-0752
Retrieve	998-72-3567	Ringer	Albert	801 826-0752
Retrieve	341-22-1782	Smith	Meander	913 843-0462
Retrieve	274-80-9391	Straight	Dean	415 834-2919
Retrieve	724-08-9931	Stringer	Dirk	415 843-2991
Retrieve	172-32-1176	White	Johnson	408 496-7223
Retrieve	672-71-3249	Yokomoto	Akiko	415 935-4228

Retrieved : 23 author records

Action	Title Id	Title	Type	Price
Update	MC3021	The Gourmet Microwave	mod_cook	19.99
Delete	PS2091	Is Anger the Enemy?	psychology	19.99

Retrieved : 2 title records

Title ID: Supply the Books ID  
Title : Supply the Book's Name  
Type : Choose a Book Genre  
Price : Supply the Book's Cost  
Author(s) : Choose the Book's Author(s)

Add Book

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The user is required to supply all of the information shown. As with the Edit functionality in ICA04, only existing values shall be permitted for the Type and Author(s) fields. These shall be populated by querying the database for existing values. While only one Type may be selected for a book, multiple authors are permitted (you need only include as one of the select attributes multiple="multiple" (most verbose version), and then more than one choice may be selected using the Ctrl key while clicking. Don't forget to message the user with status updates!

Remember that you will need to create the titleauthor records to connect your new book to its author(s). For the author order, you may provide the numbers in the order in which the authors are extracted (they just shall not be the same). Also, we will assume "equal billing" for each of the authors and so the royalty percentages shall be equal portions of 100%. As with the Edit functionality, the price must be a numeric value greater than zero to be accepted.

Consistent with Delete and Edit as in ICA04, be sure to refresh the book display for the current author functionality.