

CMPE2550 – ASP ICA04 – mySQL and Data Manipulation

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 assignment, 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 03

To avoid reinventing the wheel, copy all of your files from Assignment03 into a new Assignment04 folder. Once this is completed, your first task is to include the addition of Delete and Edit buttons to the titles table as shown below:

Assignment 04 – mySQL Data Manipulation				
Get Books	Author Id	Last Name	First Name	Phone
Retrieve	409-56-7008	Bennet	Abraham	415 658-9932
Retrieve	648-92-1872	Blotchett-Halls	Reginald	503 745-6402
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
Delete	Edit	MC3021	The Gourmet Microwave	mod_cook	19.99
Delete	Edit	PS2091	Is Anger the Enemy?	psychology	19.99
Retrieved : 2 title records					

As with the retrieve button, you will want to choose strategic IDs for the buttons to make your life easier when you try to extract information to send to the server. All operations will be performed via AJAX calls.

When a Delete button is clicked, you shall cause the associated book to be deleted from your database table. Remember that all of the titleauthor records associated with the book must be removed as well so that you do not have polluted data.

When the edit button is clicked, you shall present the user with an adjusted UI that allows the user to adjust the book's information. The TitleID shall not be permitted to be changed, but the title, type, and price are fair game. The user shall only be permitted to choose book types that already exist in the titles table (a retrieval query along with a select control is suggested here for display purposes, but there must also be a double-check on the server when submitting the changed data). The price field must be bullet-proofed to ensure a positive numeric value greater than zero has been supplied by the user. If cancel is clicked, no changes shall occur.

Remember to refresh the books display for the currently selected author once a book has been deleted or updated, and to message the user. If cancel is clicked, restore the original UI.

An example updated UI for when Edit is clicked is shown below:

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Get Books	Author Id	Last Name	First Name	Phone
Retrieve	409-56-7008	Bennet	Abraham	415 658-9932
Retrieve	648-92-1872	Blotchet-Halls	Reginald	503 745-6402
Retrieve	238-95-7766	Carson	Cheryl	415 548-7723
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Retrieve	712-45-1867	del Castillo	Innes	615 996-8275
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Retrieve	472-27-2349	Gringlesby	Burt	707 938-6445
Retrieve	846-92-7186	Hunter	Sheryl	415 836-7128
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Retrieve	486-29-1786	Locksley	Charlene	415 585-4620
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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
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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	Cancel	MC3021	The Gourmet Microwave	mod_cook 19.99
Delete	Edit	PS2091	Is Anger the Enemy?	psychology 19.99
Retrieved : 2 title records				