Chapter 16 - Extra Practice

Extra Practice

Extra practice is for those who would like to do some extra practice projects to further hone their skills learned in each assignment. There are no additional points to be gained by completing these projects.

Player Manager

Create a program that allows you to store data for players of a game.

-	r				
COMMAND MENU view - View p add - Add a p del - Delete exit - Exit p	player a player				
Command: view		Losses	Ties	Cames	
Name					
Mike	4	3			
Joel	3	7	10	20	
Wins: 9					
Losses: 5 Ties: 3 Anne was adde Command: view					
Ties: 3 Anne was adde	Wins	Losses			
Ties: 3 Anne was adde Command: view Name	Wins	Losses			
Ties: 3 Anne was adde	Wins	Losses 5 3		17	
Ties: 3 Anne was adde Command: view Name	Wins	Losses	3	17 14	

Specifications

- In the Assignment 16 section of Canvas, you will find a database file (players_db.sqlite) that contains a Player table that stores the data for each player.
- Use the three-tier architecture (presentation, business, database) for this program, and store the code for each tier in a separate file.
- Display the players in order by wins, starting with the player with the most wins.
- Assume that the name for each player is unique.

Possible Enhancements

 Add an "update" command. This command should prompt the user to enter the name of a player. Then, it should let the user update the wins, losses, and ties for the player.

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Task List

Create a program that allows you to manage a task that's stored in a database.

```
Task List
COMMAND MENU
view - View pending tasks
history - View completed tasks
       - Add a task
complete - Complete a task
delete - Delete a task
       - Exit program
Command: view
1. Buy toothbrush
2. Do homework
Command: complete
Number: 2
Command: add
Description: Pay bills
Command: view
1. Buy toothbrush
2. Pay bills
Command: history
1. Get bike fixed (DONE!)
2. Call your mom (DONE!)
3. Do homework (DONE!)
Command: exit
Bye!
```

Specifications

- In the Assignment 16 section of Canvas, you will find a database file (task_list_db.sqlite) that contains a Task table that stores the tasks.
- Use the three-tier architecture (presentation, business, database) for this program, and store the code for each tier in a separate file.
- The view command should only display tasks that have not been completed.
- The complete command should only mark a task completed, not delete it from the database.
- The history command should allow you to view tasks that have been completed, but not deleted.

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Product Manager

Create a program that manages the products that are available from a guitar shop.

```
Product Manager
CATEGORIES
Guitars | Basses | Drums
COMMAND MENU
view - View products by category
update - Update product price
exit - Exit program
Command: view
Category name: basses
      Name
precision Fender Precision
                                                     799.99
                                                      499.99
hofner
        Hofner Icon
Command: update
Product code: hofner
New product price: 399.50
Product updated.
Command: view
Category name: basses
     Name
                                                       Price
precision Fender Precision
                                                      799.99
hofner Hofner Icon
                                                      399.50
Command: exit
Bye!
```

Specifications

- In the Assignment 16 section of Canvas, you will find a database file (guitar_shop.sqlite) that contains Category and Product tables. These tables store the data for the categories and the products within each category.
- Use the three-tier architecture (presentation, business, database) for this program, and store the code for each tier in a separate file.
- Display the products alphabetically by product name.
- Assume that the name for each category is unique.
- Assume that the code for each product is unique.

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