

3. Python SQLite Game Shop Menu

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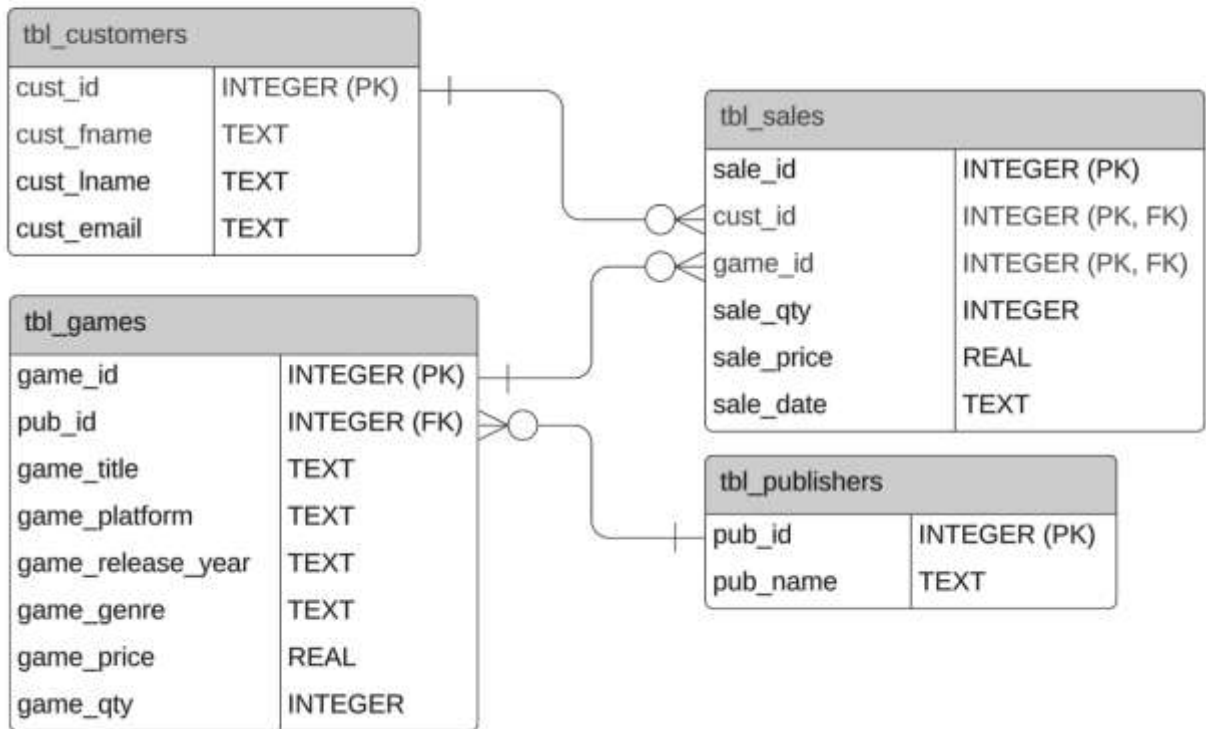
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Time required: 90 minutes

- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.
- Remember to modify to create your own database

Python SQLite Game Shop Database

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Menu Pattern

Here is a possible pattern for a nested menu system.

- The first while loop is for the main menu.
- The interior loops are for the sub menus.

```

def menu():
    """Nested while loop to display the main menu and sub-menus"""
    # Main menu loop
    while True:
        user_input = input(MENU_PROMPT)

        # ----- SALES TRANSACTIONS----- #
        if user_input == "1":
            # Interior sales transactions loop
            while True:
                user_input = input(SALES_TRANSACTIONS_PROMPT)

        # ----- TABLE MAINTENANCE ----- #
        elif user_input == "2":
            # Interior table maintenance loop
            while True:

                # ----- INSERT PUBLISHER ----- #
                user_input = input(TABLE_MAINTENANCE_PROMPT)
                if user_input == "1":
                    display_all_publishers()
                    # Get publisher data from user
                    pub_name = input("Enter publisher name: ")
                    pub_country = input("Enter publisher country: ")

                    # Add publisher to database
                    db_publishers.insert_record(
                        pub_name,
                        pub_country
                    )

                    display_all_publishers()

                # ----- INSERT GAME ----- #
                elif user_input == "2":
                    display_all_publishers()
                    # Get data from user
                    pub_id = input("Enter publisher ID: ")
                    game_title = input("Enter game title: ")
                    game_platform = input("Enter game platform: ")
                    game_release_year = input("Enter game release year: ")
                    game_genre = input("Enter game genre: ")

```

```
game_price = input("Enter game price: ")
game_qty = input("Enter game quantity: ")

db_games.insert_record(
    pub_id,
    game_title,
    game_platform,
    game_release_year,
    game_genre,
    game_price,
    game_qty
)
display_all_games()
```

Menu

Connect all existing menu items to existing functions.

```
MENU_PROMPT = """-----  Game Shop Point of Sale  -----
(1) Sales Transactions
(2) Table Maintenance
(3) Reports
(9) Exit
Your selection: """
```

Table Maintenance

Build your nested menu items and connect these previously created functions.

- Insert Publisher
- Insert Game
- Delete Publisher
- Delete Game

```

22  TABLE_MAINTENANCE_PROMPT = """----- Table Maintenance -----
23  (1) Insert Customer
24  (2) Insert Publisher
25  (3) Insert Game
26  (4) Delete Customer
27  (5) Delete Publisher
28  (6) Delete Game
29  (7) Insert Dummy Data
30  (9) Exit
31  Your selection: """

```

Reports

- Display all publishers
- Display all games
- Display all games and publishers

```

REPORTS_PROMPT = """----- Reports -----
(1) Sales by Publisher
(2) Sales by Game
(3) Sales by Genre
(4) Sales by Platform
(5) Display Publishers
(6) Display Games
(7) Display Customers
(7) Display Publishers & Games
(8) Display Sales Transactions
(9) Exit
Your selection: """

```

New Functions for Customers

```
TABLE_MAINTENANCE_PROMPT = """----- Table Maintenance -----
(1) Insert Publisher
(2) Insert Game
(3) Insert Customer
(4) Delete Publisher
(5) Delete Game
(6) Delete Customer
(7) Insert Dummy Data
(9) Exit
Your selection: """
```

Add the following functions and SQL to the Table Maintenance menu. Use the same pattern of functions and code with Customers we used with the Publishers and Games tables.

- Insert Customer
- Delete Customer

```
REPORTS_PROMPT = """----- Reports -----
(1) Sales by Publisher
(2) Sales by Game
(3) Sales by Genre
(4) Sales by Platform
(5) Display Publishers
(6) Display Games
(7) Display Customers
(8) Display Publishers & Games
(9) Display Sales Transactions
(99) Exit
Your selection: """
```

Add the following code and SQL to the Reports menu.

- Display Customers

Stay tuned for more Fun with SQLite!

Assignment Submission

1. Attach the program files.
2. Attach screenshots showing the successful operation of the program.

3. Submit in Blackboard.