4. Python SQLite Game Shop POS - Sales

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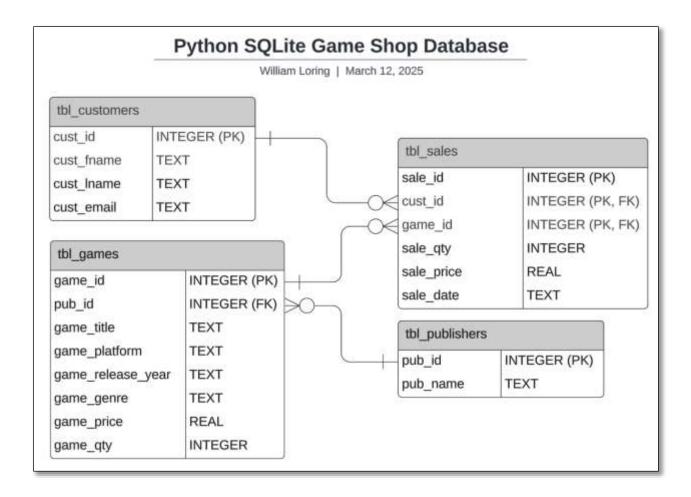
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Time required: 60 minutes

- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.

Sales

Our program is not much of a Point of Sale (POS) program without sales. Let's take another look at our ERD.



To add a sale, we must know 2 things: the two foreign keys for our sales table.

- cust_id
- game_id

We accomplish this by calling the display_all_customers() and display_all_games() functions before we enter the ID's. After that, we get the quantity and the date.

We will also add db_sales.delete_record() and display_all_sales()

Add the following to your game_shop_pos.py file. This finishes out the Sales menu.

```
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)
                        ----- ADD SALE ------
                     if user input == "1":
                         display_all_customers()
                         cust_id = int(input("Enter customer ID: "))
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                         display all games()
                         game_id = int(input("Enter game ID: "))
                         sale qty = int(input("Enter quantity: "))
                         sale_date = input("Enter sale date (YYYY-MM-DD): ")
                         db_sales.insert_record(
                             cust_id,
                             game_id,
                             sale_qty,
                             sale date
                            ----- DELETE SALES TRANSACTION -----
                     elif user_input == "2":
                         display all sales()
                         sale_id = int(input("Enter sale ID: "))
                         db_sales.delete_record(sale_id)
                    ----- DISPLAY SALES TRANSACTIONS ----
                     elif user input == "3":
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                         display_all_sales()
                     elif user input == "9":
                         break
                     else:
                         print("Invalid input, please try again!")
```

Insert Sales Record

Let's add the insert_record() function to our db_sales.py file.

The following SQL code goes at the top of the file.

```
INSERT_RECORD = """
    INSERT INTO tbl_sales (
    cust_id, game_id, sale_qty, sale_date
    ) VALUES (?, ?, ?, ?);
"""
```

Time to create the insert_record() function. This function inserts the sale record into the database.

Display All Sales

If we display the sales with only the id's, we have no idea what we have sold. We need a relational query that will get the appropriate information from the games and the customers table associated with that particular sale.

To do this, we join the customers table on the cust_id with the customers table and the games table with the game_id.

Add the following SQL to your db_sales.py file.

```
FETCH_SPECIFIC_RECORDS = """

SELECT

tbl_sales.sale_id,
tbl_customers.cust_fname,

tbl_games.game_title,
tbl_sales.sale_qty,
tbl_sales.sale_date

FROM tbl_sales

JOIN tbl_customers

ON tbl_sales.cust_id = tbl_customers.cust_id

JOIN tbl_games

ON tbl_sales.game_id = tbl_games.game_id;

"""
```

We also need the related function that will execute the SQL query against our database.

Sales Menu

Back to our game_shop_pos.py file. The following function will display all sales.

Let's try out our program before we add the delete sale functionality.

```
----- Game Shop Point of Sale -----
(1) Sales Transactions
(2) Table Maintenance
(3) Reports
(9) Exit
Your selection: 1
----- Sales Transactions -----
(1) Add Sale
(2) Delete Sales Transaction
(3) Display Sales Transactions
(9) Exit
Your selection: 1
   ID | First Name
                     Last Name
                                  | Email
    1 John
                     Doe
                                   john.doe@example.com
    2 Jane
                     Smith
                                  jane.smith@example.com
    3 | Alice
                     Johnson
                                  | alice.johnson@example.com
Enter customer ID: 3
```

18 Grand Theft Auto V 19 The Witcher 3: Wild 20 Dark Souls 21 The Last of Us 22 Spider-Man	PlayStation 4 Hunt PC PlayStation 3 PlayStation 3 PlayStation 4	2013 2015 2011 2013 2018	Role-playing Action role- Action-adven	
Enter game ID: 22 Enter quantity: 1 Enter sale date (YYYY-MM-DD): 03-01-2025 Sales Transactions (1) Add Sale (2) Delete Sales Transaction (3) Display Sales Transactions (9) Exit Your selection: 3				
ID Fname Lname	Game	Qty	Date	
1 John Doe 2 Jane Smith 3 Alice Johnson	The Legend of Zelda The Witcher 3: Wild Hunt Spider-Man	1	2025-03-05 03-25-2025 03-01-2025	
Sales Transactions (1) Add Sale (2) Delete Sales Transaction (3) Display Sales Transactions (9) Exit Your selection: 9 Game Shop Point of Sale (1) Sales Transactions (2) Table Maintenance (3) Reports (9) Exit Your selection: 9				

Delete Sale

Last step and our Sales menu is complete.

db_sale.py

```
DELETE_RECORD = "DELETE FROM tbl_sales WHERE sale_id = ?"
```

delete_record function.

Test out the delete_record() function.

Assignment Submission

- 1. Attach the program files.
- 2. Attach screenshots showing the successful operation of the program.
- 3. Submit in Blackboard.