6. Python SQLite Game Shop Tutorial Delete

Contents

- Follow all directions carefully and accurately.

- Think of the directions as minimum requirements.

SQL Tutorials

- https://www.w3schools.com/sql/sql_delete.asp

SQLite with Python Tutorials

- SQLite Databases with Python - Full Course – FreeCodeCamp.org

- https://www.sqlitetutorial.net

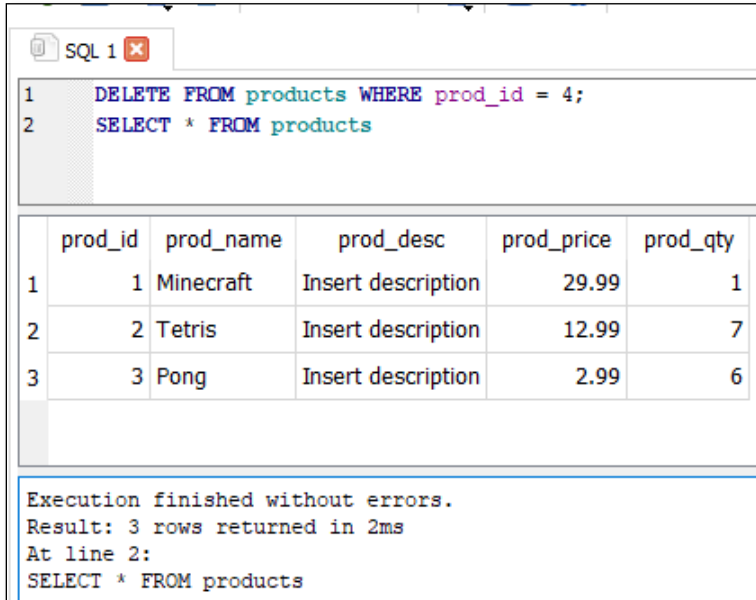## Explanation: Deleting Data

Let's say that Sammy the shark escaped into the wild. Since Sammy no longer lives at the aquarium, it would make sense to remove the Sammy row from the fish table.

```
DELETE FROM table_name [WHERE Clause]
```

```
released_fish_name = "Sammy"
cursor.execute(
    "DELETE FROM fish WHERE name = ?",
    (released_fish_name,)
)
connection.commit()
```

Tutorial 1: Delete Data with DB Browser for SQLite

1. Copy **game_shop_5.db** to **game_shop_6.db**

2. In **DB Browser for SQLite** → Open Database **game_shop_6.db**

3. Go to the **Execute SQL** tab.

4. Insert and execute the following SQL code.

Tutorial 2: Delete Records with Python

1. Add the following method to **db_controller.py**

```
184    # ---------------------- DELETE RECORD -------------------------------#
185        def delete_record(self, prod_id):
186            """
187            Delete a specific product record from the 'products' table.
188
189            Parameters:
190                prod_id (int): The ID of the product to be deleted.
191            """
192
193            # Establish a connection to the database file using with
194            with sqlite3.connect(self.database) as connection:
195
196                # Create a cursor object to interact with the database
197                cursor = connection.cursor()
198
199                # SQL SELECT statement with orod_id argument substituted for ?
200                SQL = "DELETE FROM products WHERE prod_id = ?"
201
202                # Execute SQL DELETE statement with provided product ID
203                cursor.execute(
204                    SQL,
205                    (
206                        prod_id,
207                    )
208                )
```

2. Copy **sql_5_tutorial_select.py** to **sql_6_tutorial_update.py**

3. Add the following code.

```
58    # ---------------------- DELETE RECORDS ------------------------------- #
59    # Delete a record based on the product id
60        game_shop.delete_record(prod_id="1")
61        print("\nRecord deleted")
62
63        # Fetch and display all records,
64        # showing the deleted record is no longer present
65        records = game_shop.fetch_all_records()
66        # Loop through returned list of tuples
67        for record in records:
68            print(record)
```

Example run:

```
Table created
Records inserted

Records returned as a list of tuples
[(1, 'Minecraft', 'Insert your own description', 15.99, 1, 1), (2, 'Tetris',
 'Insert your own description', 12.99, 3, 7)]
(2, 'Tetris', 'Insert your own description', 12.99, 3, 7)
Display records one at a time, iterating through list
(1, 'Minecraft', 'Insert your own description', 15.99, 1, 1)
(2, 'Tetris', 'Insert your own description', 12.99, 3, 7)
Fetch filtered records.

Fetch all product that are $.99:
[]

Updated sale price for MineCraft
(1, 'Minecraft', 'Insert your own description', 29.99, 1, 1)

Record deleted
(2, 'Tetris', 'Insert your own description', 12.99, 3, 7)
(2, 'Tetris', 'Insert your own description', 12.99, 3, 7)

Record deleted
(2, 'Tetris', 'Insert your own description', 12.99, 3, 7)
```

Assignment Submission

1. Attach the program files.

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

3. Submit in Blackboard.