MINI PROJECT

- 1. Create the following tables inside the database 'global_store_db'. 'products' with columns:
 - product_id (INT, auto_increment, primary key),
 - name (VARCHAR(100)),
 - price (DECIMAL(10,2)),
 - quantity (INT).

'orders' with columns:

- order_id (INT, auto_increment, primary key),
- product_id (INT, foreign key referencing product_id in the inventory table),
- quantity_ordered (INT)
- order_date (DATE).

```
CREATE DATABASE global_store_db;

USE global_store_db;

CREATE TABLE products (
   product_id INT AUTO_INCREMENT PRIMARY KEY,
   name VARCHAR(100),
   price DECIMAL(10, 2),
   quantity INT );

CREATE TABLE orders (
   order_id INT AUTO_INCREMENT PRIMARY KEY,
   product_id INT,
   FOREIGN KEY (product_id) REFERENCES products(product_id) ,
   quantity_ordered INT,
   order_date DATE);
```

2.Alter the products table to add a new column named category (VARCHAR(50)) after the price column.

3. Rename the products table to inventory.

```
22 • RENAME TABLE products TO inventory;
```

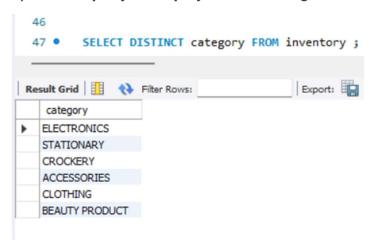
4. Insert at least 10 records into the inventory table and 5 records into orders table and display the tables.

```
INSERT INTO inventory VALUES
24 •
        (1, 'MAC BOOK', 150000, 'ELECTRONICS', 1),
25
26
        (2, 'PEN ',1000, 'STATIONARY',10),
27
        (3, 'PLATE', 2000, 'CROCKERY', 5),
28
        (4, 'NOTEBOOKS', 500, 'STATIONARY', 10),
        (5, 'IPHONE COVER', 550, 'ACCESSORIES', 1),
        (6, 'CHARGER', 4000, 'ACCESSORIES', 1),
30
        (7, 'SHIRT', 10000, 'CLOTHING', 2),
        (8, 'FACE WASH', 1999, 'BEAUTY PRODUCT', 3),
32
        (9, 'SAMSUNG FLIP', 90000, 'ELECTRONICS', 1),
        (10, 'TEA POT', 3000, 'CROCKERY', 2);
34
35
36 •
       SELECT * FROM inventory;
```

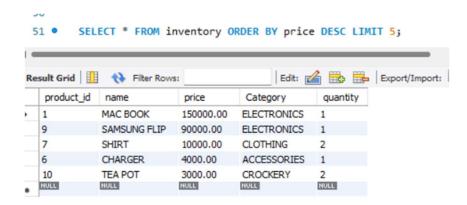


```
INSERT INTO orders VALUES
        (4324, 1, 1, '2024-02-24'),
 39
 40
       (8258, 2, 10, '2024-02-24'),
        (4211, 3, 5, '2024-02-25'),
 41
 42
        (7299, 4, 10, '2024-02-26'),
 43
        (2793, 5, 1, '2024-02-26');
 44
 45
 46 • SELECT * FROM orders ;
Edit: 🚄 📆 🖽 Export/Import:
   order_id product_id quantity_ordered order_date
  2793
          5
                 1
                                2024-02-26
                  5
   4211
         3
                                2024-02-25
   4324
                                2024-02-24
   7299
         4
                 10
                                2024-02-26
   8258
                                2024-02-24
          NULL
                   NULL
```

- 5. Write queries for the following:
- a) Write a query to display distinct categories from the inventory table.



b) Select the top 5 products by their prices in descending order from the inventory table.



c) Display the names of products with a quantity greater than 10 from the inventory table.



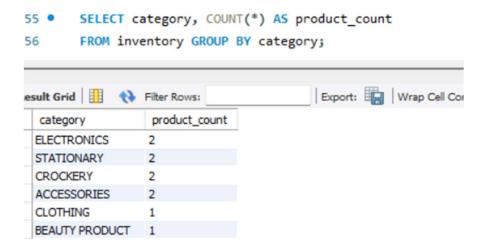
!! OR WHICH IS GREATER THAN 9 (only for verification)



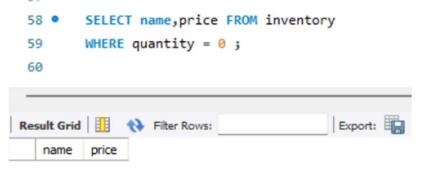
d) Use the SUM() function to calculate the total price of all products in the inventory table.



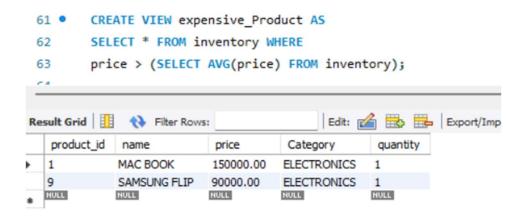
e)Group products by their categories and display the count of products in each category.



f) Write a query to identify products that are currently out of stock (i.e., quantity is zero). Display the product details including the product name and price.



6. Create a view named expensive_products that displays the details of products with a price above the average price of all products.



7. Write a join query to display the names of products along with the corresponding order quantities from the inventory and orders tables.

