Ecommerce - SQL

```
1 ● ○ CREATE TABLE customers (
           customer id INT PRIMARY KEY,
2
           name VARCHAR(255),
 3
           email VARCHAR(255),
4
           password VARCHAR(255)
 5
 6
       );
7 • ⊖ CREATE TABLE products (
           product id INT PRIMARY KEY,
9
           name VARCHAR(255),
           price DECIMAL(10, 2),
10
11
           description TEXT,
           stock_quantity INT
12
13
       );
14 ● ⊖ CREATE TABLE cart (
           cart id INT PRIMARY KEY,
15
           customer id INT,
16
           product id INT,
17
           quantity INT,
18
           FOREIGN KEY (customer_id) REFERENCES customers(customer_id),
19
           FOREIGN KEY (product id) REFERENCES products(product id)
20
21
       );
```

```
22 ● ⊖ CREATE TABLE orders (
          order_id INT PRIMARY KEY,
23
           customer_id INT,
24
25
           order_date DATE,
           total price DECIMAL(10, 2),
26
27
           shipping_address VARCHAR(255),
           FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
28
29
      ز( ا
30 • ○ CREATE TABLE order items (
           order_item_id INT PRIMARY KEY,
31
           order id INT,
32
33
           product_id_INT,
34
           quantity INT,
           FOREIGN KEY (order_id) REFERENCES orders(order_id),
35
           FOREIGN KEY (product_id) REFERENCES products(product_id)
36
37
     ٠);
```

Queries

1. Update refrigerator product price to 800.

```
1 • UPDATE products
2    SET price = 800.00
3    WHERE product_id = 7;

154 00:56:46 UPDATE products SET price = 800.00 WHERE product_id = 7
```

2. Remove all cart items for a specific customer.

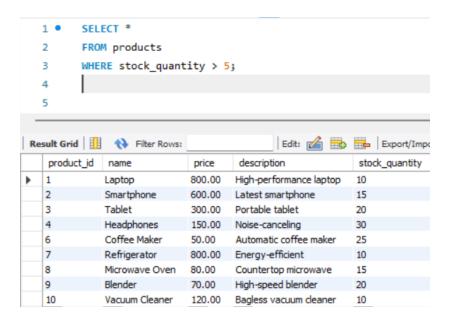
```
DELETE FROM cart

WHERE customer_id = 11;
```

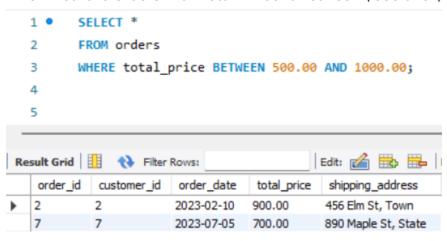
3. Retrieve Products Priced Below \$100.

```
SELECT *
  2
         FROM products
         WHERE price < 100.00;
Edit: 🚄 🖶 🖶 Export/In
   product_id
                                                      stock_quantity
                            price
             Coffee Maker
                           50.00
                                  Automatic coffee maker
                                                      25
            Microwave Oven
                           80.00
                                  Countertop microwave
                                                      15
  9
             Blender
                                  High-speed blender
                           70.00
```

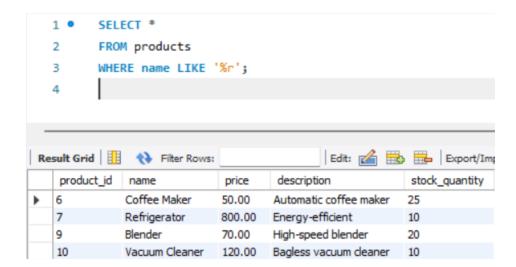
4. Find Products with Stock Quantity Greater Than 5.



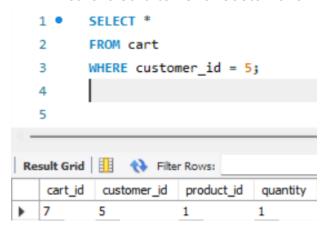
5. Retrieve Orders with Total Amount Between \$500 and \$1000.



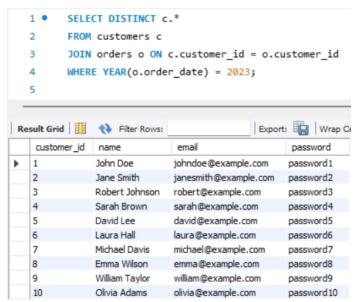
6. Find Products whose name ends with the letter 'r'.



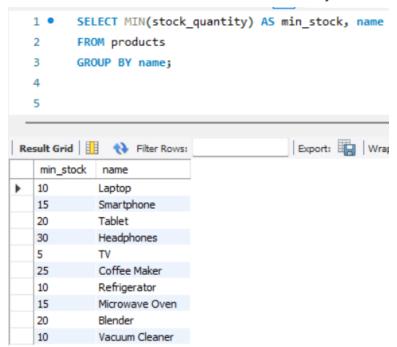
7. Retrieve Cart Items for Customer 5.



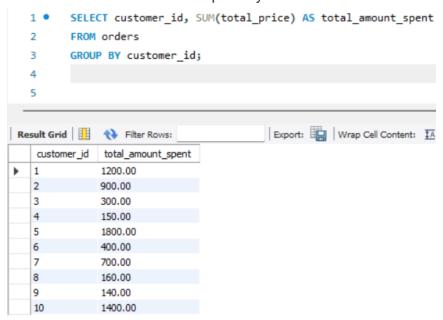
8. Find Customers Who Placed Orders in 2023.



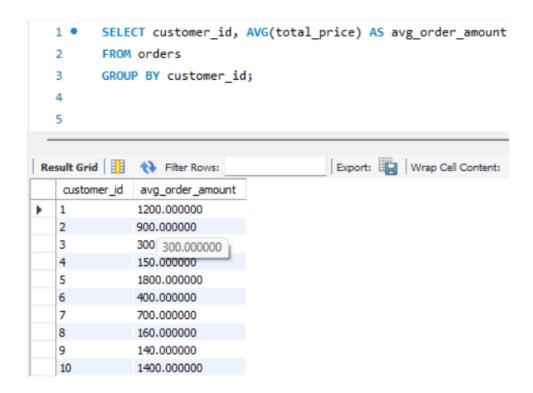
9. Determine the Minimum Stock Quantity for Each Product Category.



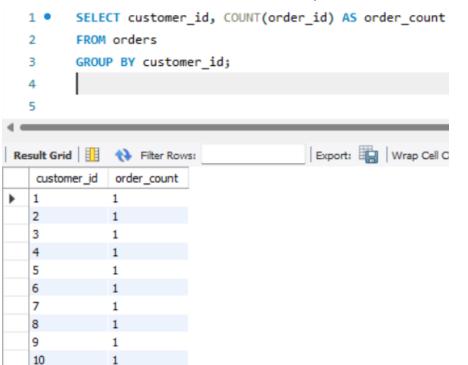
10. Calculate the Total Amount Spent by Each Customer.



11. Find the Average Order Amount for Each Customer.



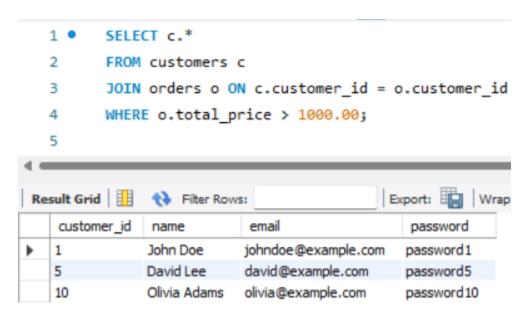
12. Count the Number of Orders Placed by Each Customer.



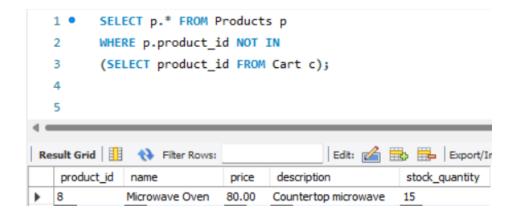
13. Find the Maximum Order Amount for Each Customer.

```
SELECT customer_id, MAX(total_price) AS max_order_amount
         FROM orders
  2
         GROUP BY customer_id;
  3
  4
  5
                                             Export: Wrap Cell Content:
Result Grid
               Filter Rows:
   customer_id
               max_order_amount
               1200.00
               900.00
   3
               300.00
               150.00
               1800.00
   6
               400.00
               700.00
  8
               160.00
   9
               140.00
   10
               1400.00
```

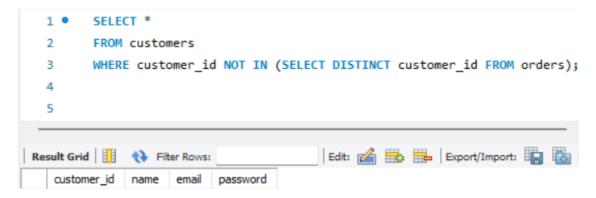
14. Get Customers Who Placed Orders Totaling Over \$1000.



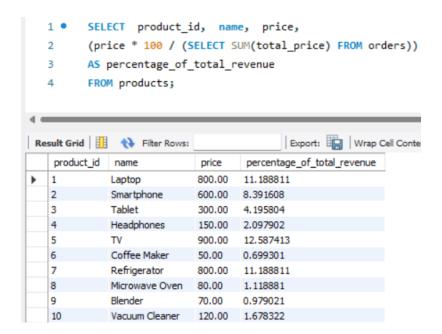
15. Subquery to Find Products Not in the Cart.



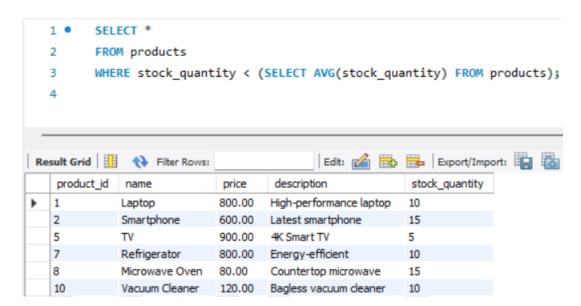
16. Subquery to Find Customers Who Haven't Placed Orders.



17. Subquery to Calculate the Percentage of Total Revenue for a Product.



18. Subquery to Find Products with Low Stock.



19. Subquery to Find Customers Who Placed High-Value Orders.

