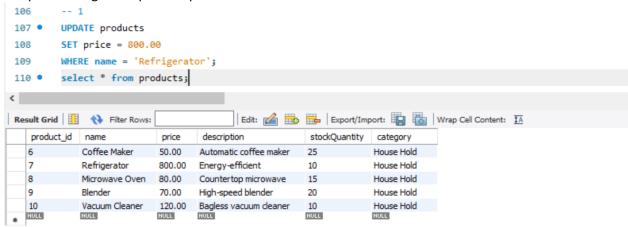
## **Coding Challenge - Ecommerce - SQL**

(Satyendra Singh Rathore)

## Tasks:

1. Update refrigerator product price to 800.



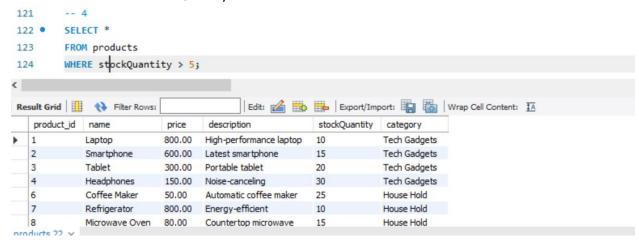
2. Remove all cart items for a specific customer.

```
112 -- 2
113 • DELETE FROM cart
114 WHERE customer_id = 4;
115
```

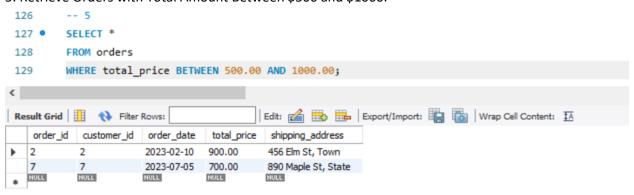
3. Retrieve Products Priced Below \$100.

```
116
         SELECT *
117 •
118
         FROM products
119
         WHERE price < 100.00;
Edit: 🚄 🖶 | Export/Import: 📳 🐻 | Wrap Cell Content: 🖽
   product_id name
                                                       stockQuantity
                                   description
                                                                    category
                            price
                                                       25
             Coffee Maker
                            50.00
                                   Automatic coffee maker
                                                                    House Hold
  8
             Microwave Oven 80.00
                                                       15
                                                                   House Hold
                                   Countertop microwave
             Blender
                            70.00
                                  High-speed blender
                                                       20
                                                                   House Hold
NULL
```

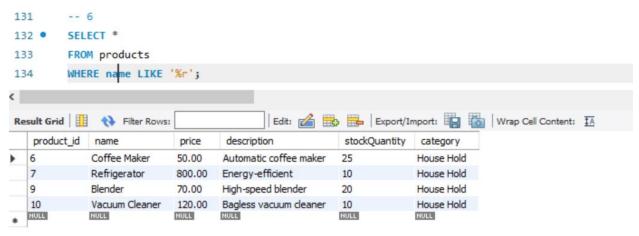
4. Find Products with Stock Quantity Greater Than 5.



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



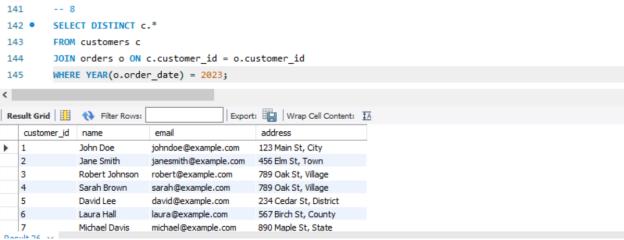
6. Find Products which name end with letter 'r'.



7. Retrieve Cart Items for Customer 5.

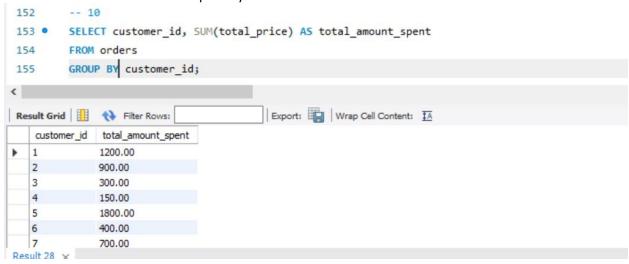


8. Find Customers Who Placed Orders in 2023.

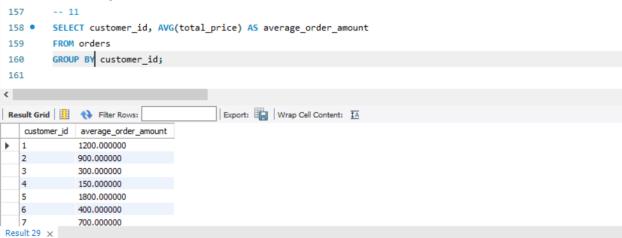


9. Determine the Minimum Stock Quantity for Each Product Category.

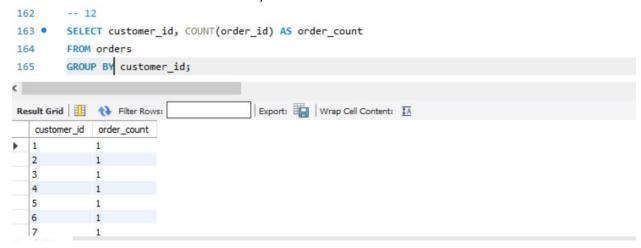
10. Calculate the Total Amount Spent by Each Customer.



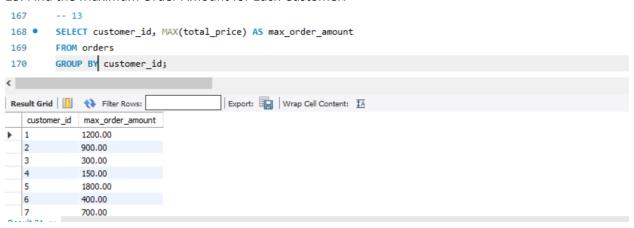
11. Find the Average Order Amount for Each Customer.



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



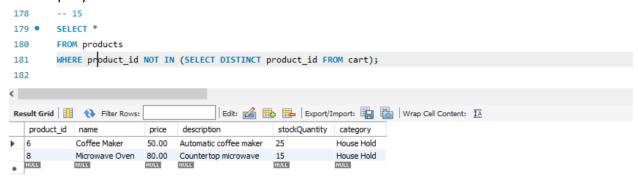
13. Find the Maximum Order Amount for Each Customer.



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

```
172
173 •
        SELECT customer_id, SUM(total_price) AS total_amount_spent
174
        FROM orders
        GROUP BY customer_id
175
        HAVING SUM(total_price) > 1000;
176
Export: Wrap Cell Content: IA
   customer_id
             total_amount_spent
  1
             1200.00
  5
            1800.00
  10
            1400.00
```

15. Subquery to Find Products Not in the Cart.



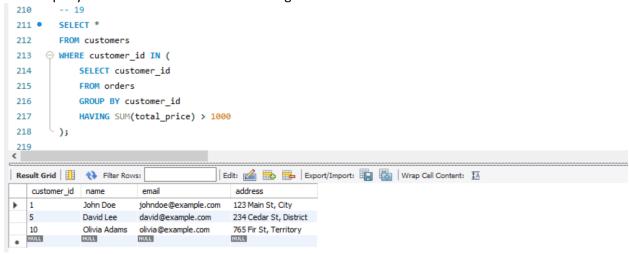
16. Subguery to Find Customers Who Haven't Placed Orders.

```
183
         -- 16
        SELECT *
184 •
185
         FROM customers
        WHERE customer_id NOT IN (SELECT DISTINCT customer_id FROM orders);
186
187
                                          Edit: 🚄 🖶 Export/Import: 📳 🐻 Wrap Cell Content: 🖽
Result Grid
              Filter Rows:
   customer_id
                    email
                           address
              name
             NULL
                    NULL
  NULL
```

18. Subquery to Find Products with Low Stock.

```
202
        -- 18
203 •
        SELECT *
204
        FROM products
205
     SELECT AVG(stockQuantity)
206
207
            FROM products
Edit: 🔏 🖶 Export/Import: 📳 🐻 Wrap Cell Content: 🛂
  product_id
                           price
                                                                   category
            Laptop
                           800.00
                                  High-performance laptop
                                                      10
                                                                   Tech Gadgets
  1
  2
            Smartphone
                           600.00 Latest smartphone
                                                      15
                                                                   Tech Gadgets
  5
                                                      5
                           900.00
                                  4K Smart TV
                                                                   Tech Gadgets
  7
            Refrigerator
                          800.00 Energy-efficient
                                                      10
                                                                   House Hold
  8
            Microwave Oven
                          80.00 Countertop microwave
                                                      15
                                                                   House Hold
                          120.00 Bagless vacuum deaner
  10
            Vacuum Cleaner
                                                      10
                                                                   House Hold
  NULL
            NULL
                          NULL
                                  NULL
                                                      NULL
                                                                   NULL
```

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



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