Topic: SQL, Database Schema

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Important Notes:

All queries should be submitted in a sql file with the query number as the file name. set prefix as 3-2 to differentiate the query file for the day.

The query definition should be in this file.

Case 1

Create a database called "sales" with three tables: "customers", "orders", and "products".

The "customers" table should have the following columns: "customer_id", "first_name", "last_name", "email", and "phone".

The "orders" table should have the following columns: "order_id", "order_date", "customer_id", and "product_id".

The "products" table should have the following columns: "product_id", "product_name", "unit_price", and "description".

1. Insert at least five customers, five products, and ten orders into the respective tables. Make sure that at least two customers have multiple orders, and at least two products are included in multiple orders.
2. Write a query that retrieves the customer's first name, last name, email, and the number of orders they have placed. The results should be ordered by the number of orders in descending order.

3. Write a query that retrieves the product name, the total number of orders for each product, and the total revenue generated by each product. The results should be ordered by the total revenue in descending order.
4. Write a query that retrieves the first name, last name, email, and product name for each order. The results should only include orders where the customer has placed multiple orders.
5. Write a query that retrieves the first name, last name, and email for each customer who has placed at least one order for a product with a unit price greater than $50.
6. Write a query that retrieves the product name and the number of times it has been ordered, but only includes products that have been ordered more than once.