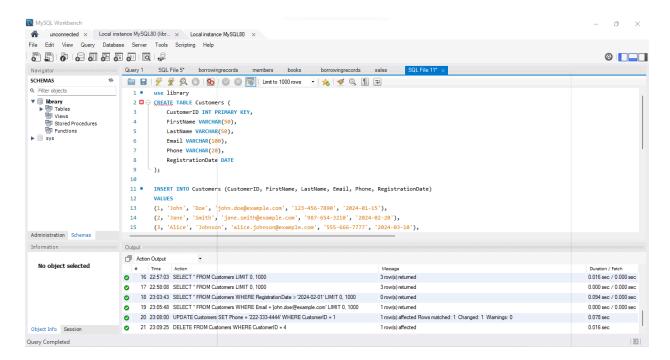
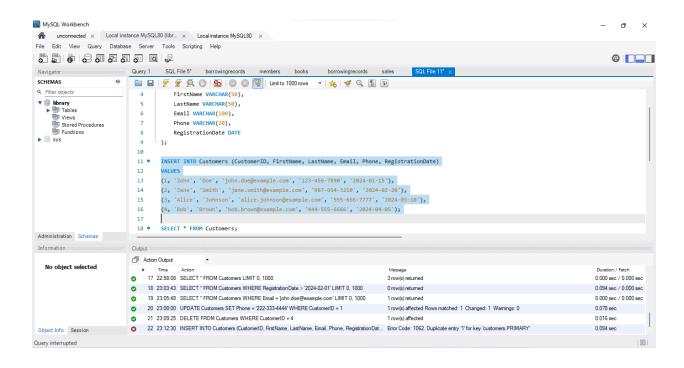
Online Retail Store

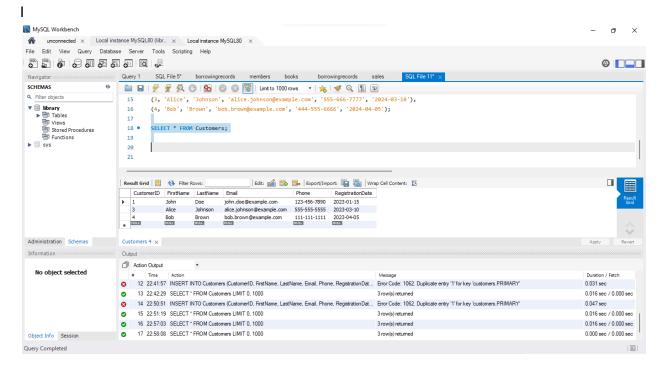
1.work with a database for an online retail store. create tables, insert data, and write SQL queries

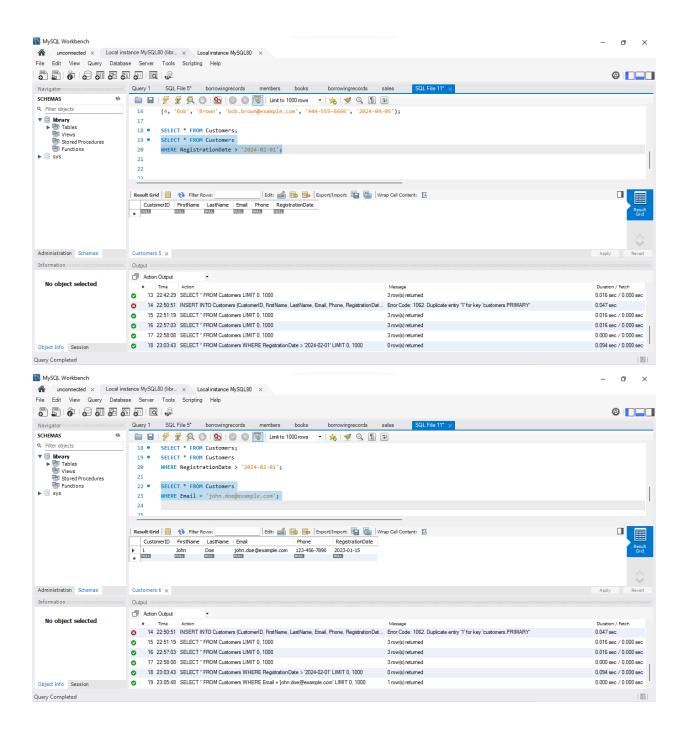
to retrieve and manipulate the data.

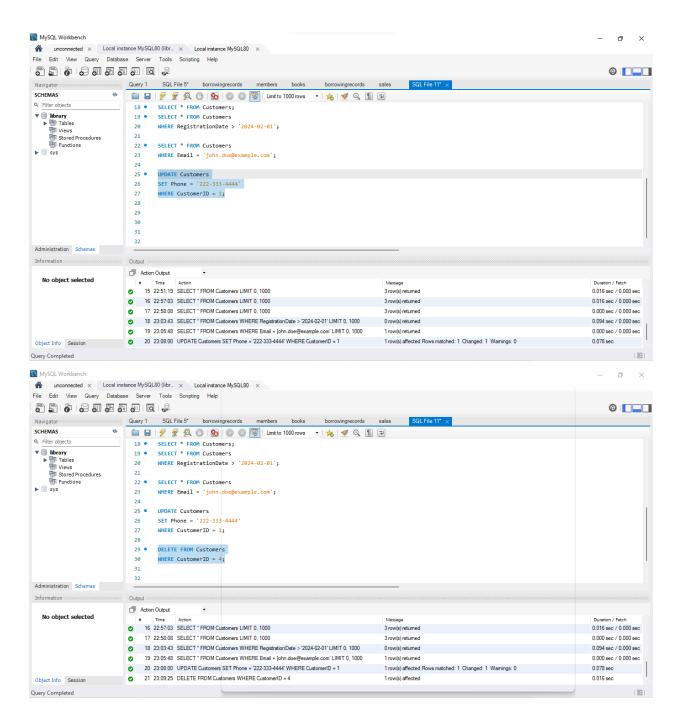
- 1. Customers Table:
- CustomerID (INT, Primary Key)
- FirstName (VARCHAR)
- LastName (VARCHAR)
- o Email (VARCHAR)
- Phone (VARCHAR)
- RegistrationDate (DATE





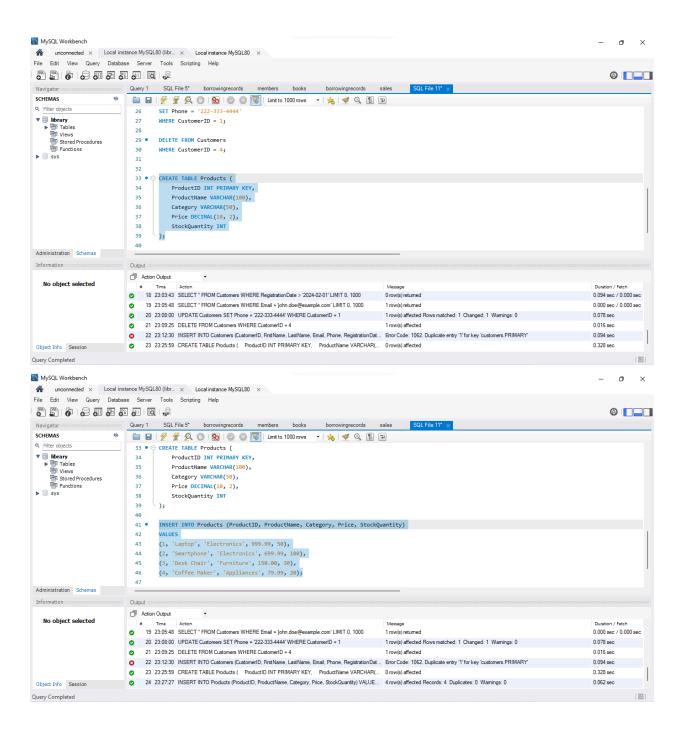


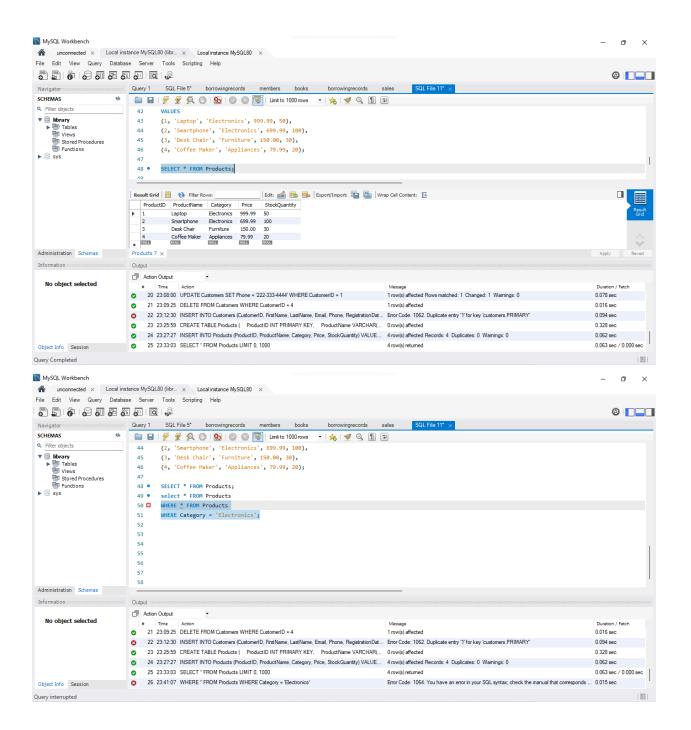


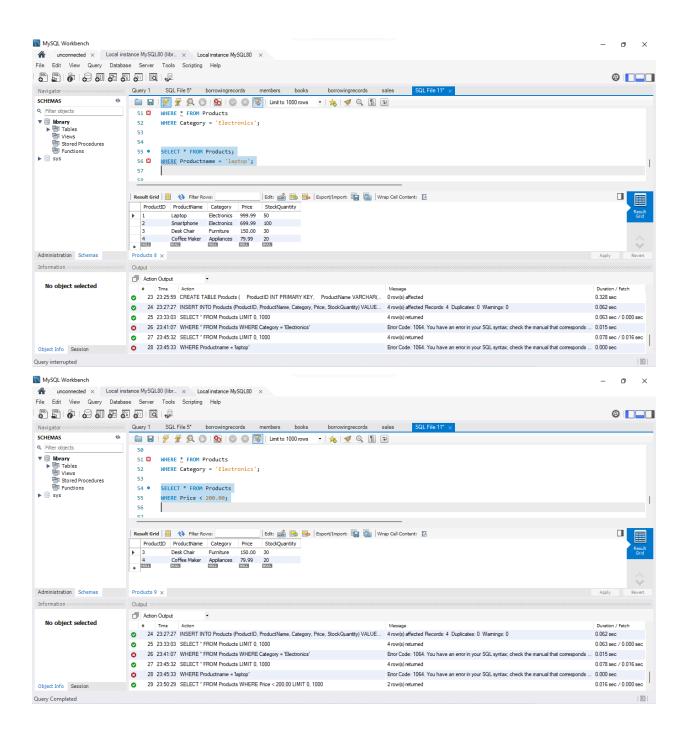


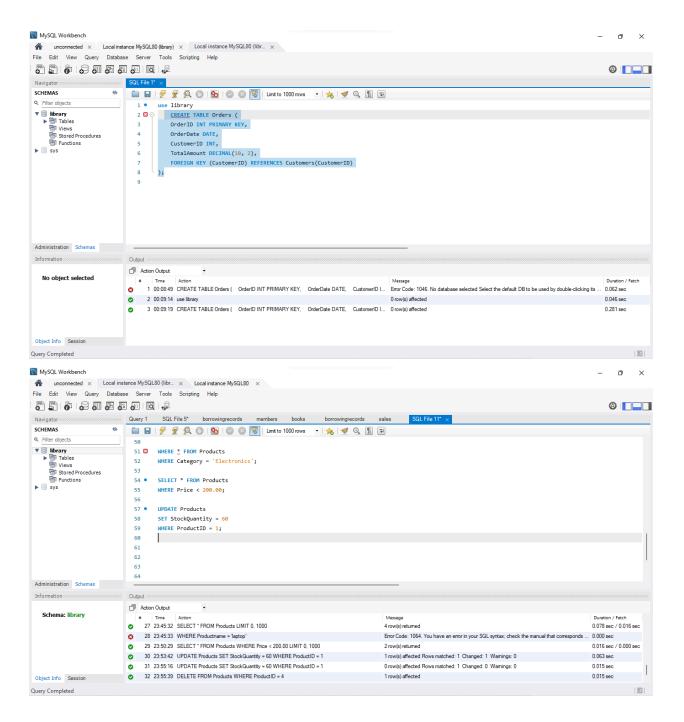
2. Products Table:

- ProductID (INT, Primary Key)
- ProductName (VARCHAR)
- Category (VARCHAR)
- Price (DECIMAL)
- StockQuantity (INT)

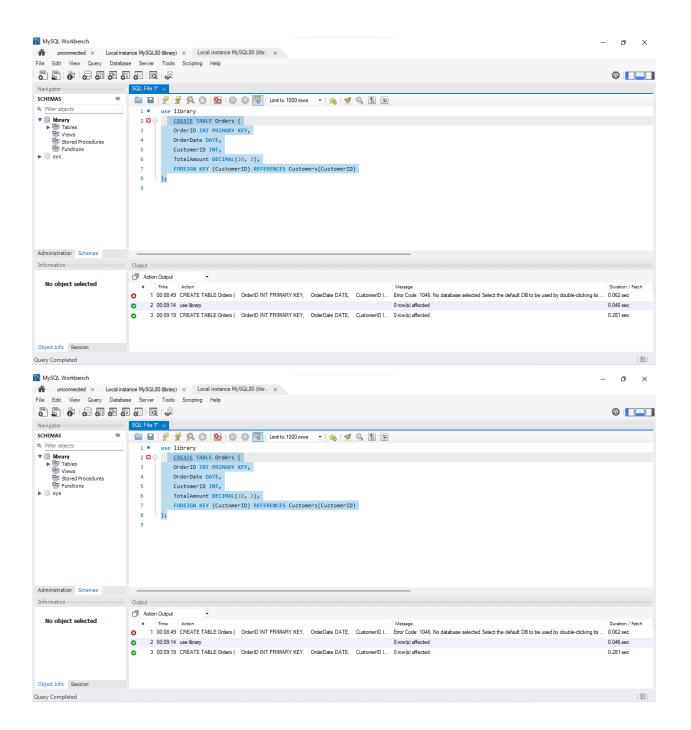


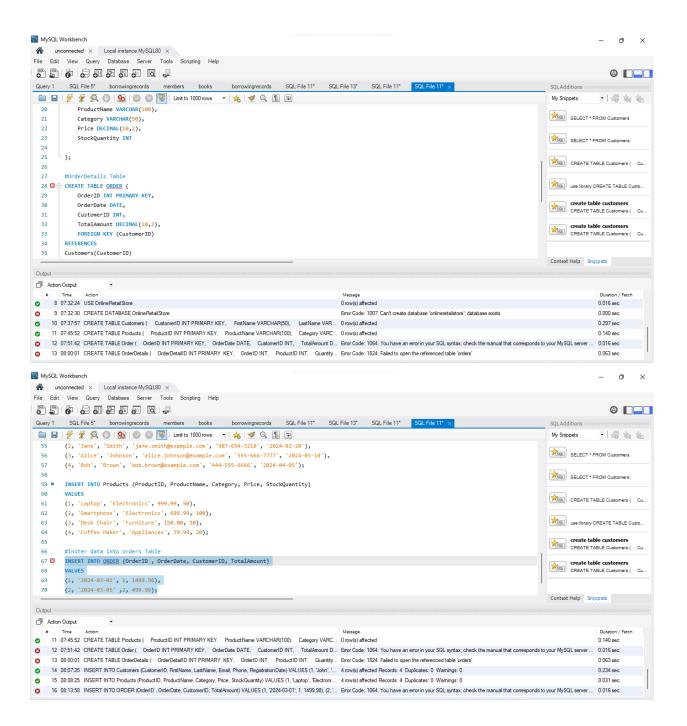


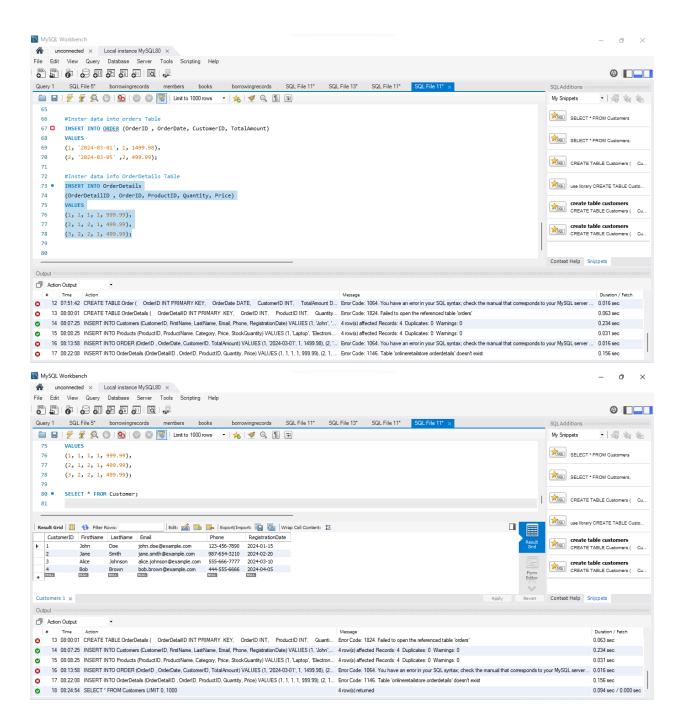


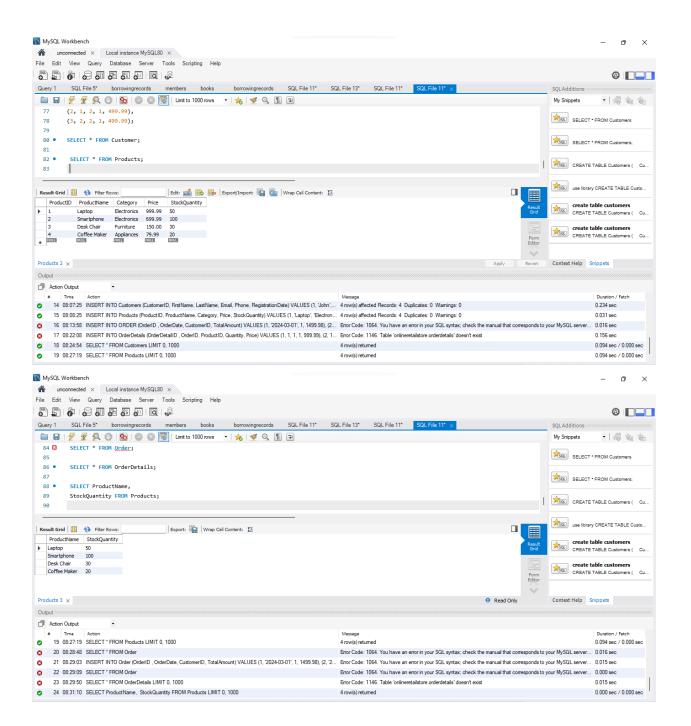


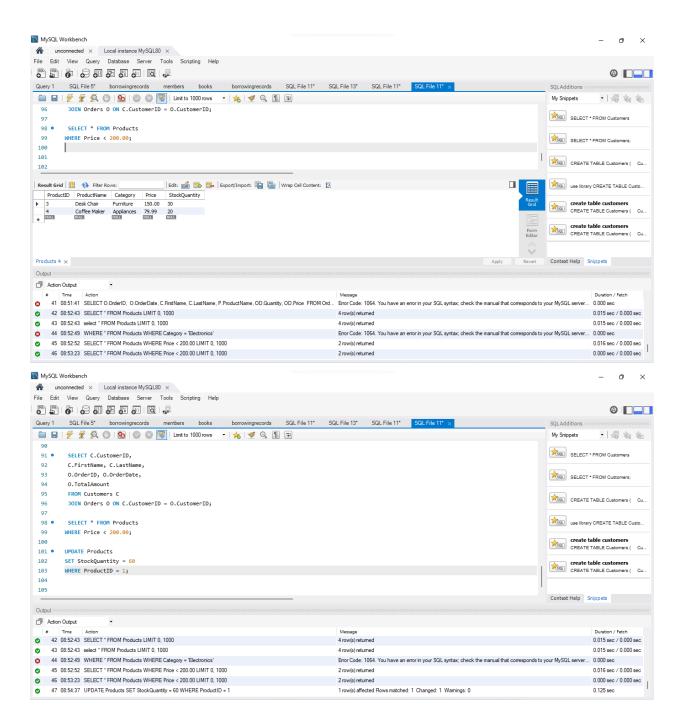
- 3. Orders Table:
- OrderID (INT, Primary Key)
- OrderDate (DATE)
- CustomerID (INT, Foreign Key)
- o TotalAmount (DECIMAL)3. Orders Table:

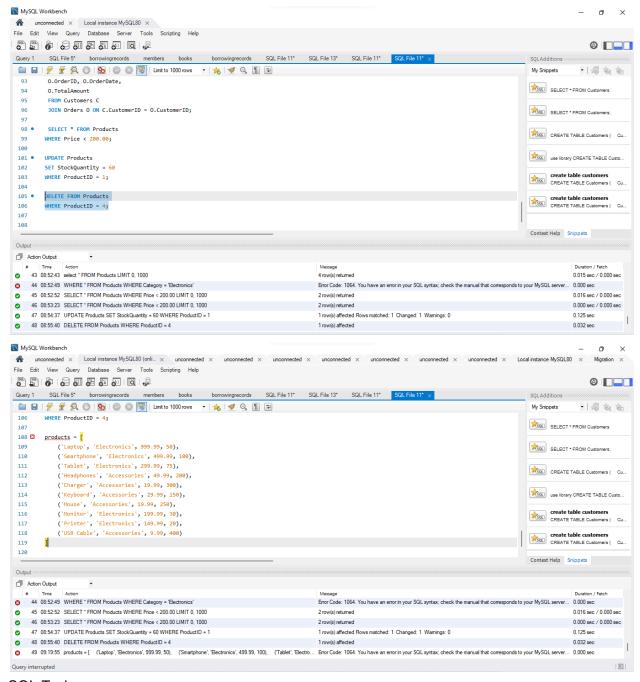








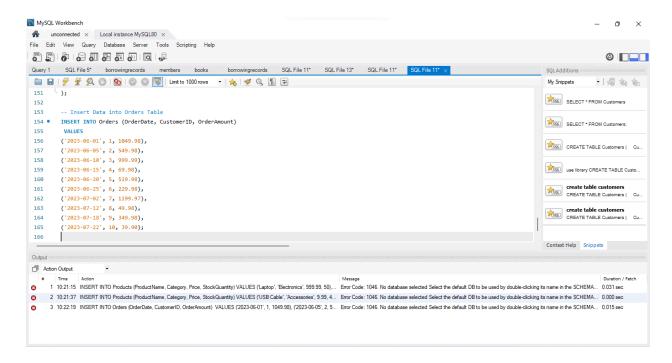


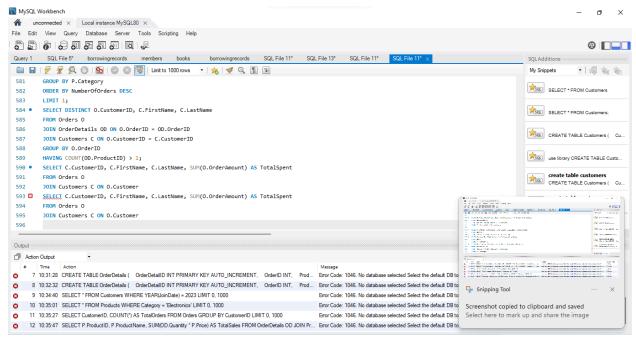


SQL Tasks:

- 1. Write SQL statements to create the tables as described in the database schema.
- 2. Insert Data
- 3. Retrieve all customers who registered in 2023.
- 4. List all products in the 'Electronics' category.
- 5. Find the total number of orders placed by each customer.
- 6. Calculate the total sales amount for each product.
- 7. Retrieve the details of all orders, including the customer name and total amount.
- 8. List all products that have been ordered along with the quantity ordered for each.

- 9. Find the order details for orders placed by 'John Doe'.
- 10. Find customers who have placed an order totaling more than \$500.
- 11. List the products that have never been ordered.
- 12. Retrieve the order history for a specific customer, including order date, product names, and quantities. (Assume customer ID is 2)
- 13. Calculate the average order value for each customer.
- 14. Find the most popular product category based on the number of orders.
- 15. List all customers who have ordered more than one product in a single order.
- 16. Find the total revenue generated from each product category.
- 17. Retrieve the list of customers along with the total amount they have spent.
- 18. Find the average price of products in each category.
- 19. Find all customers who have not placed any orders.
- 20. List the top 3 products with the highest total sales amount.
- 21. Find customers who have placed orders for more than 3 different products.





2.

