LAB # 07

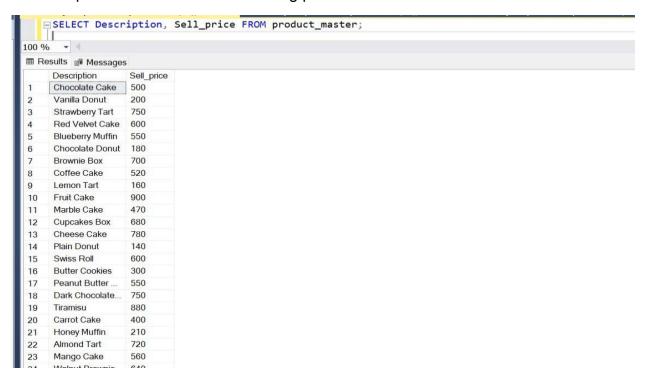
Course Code: DS-206L

Open Ended

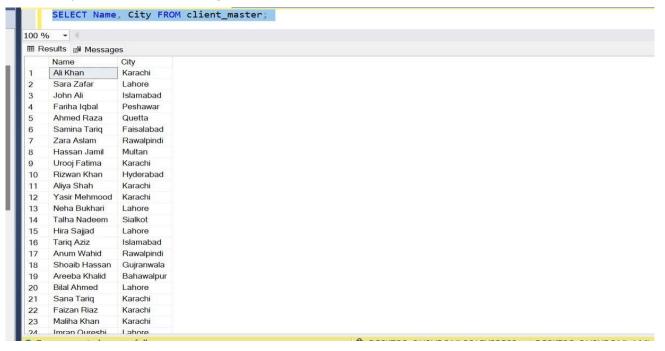
SQL Commands for Client and Product Master Management

<u>Objective</u>: To practice and implement advanced SQL operations including database creation, table creation, data insertion, data retrieval using queries, updating records, altering table structure, and creating table backups.

Task1: Show all product names and their selling prices.



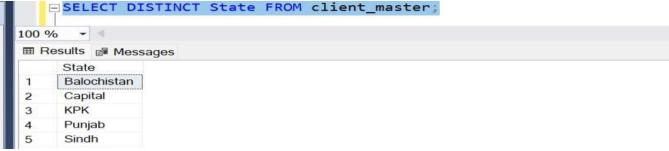
Task 2: Display all client names along with their cities.



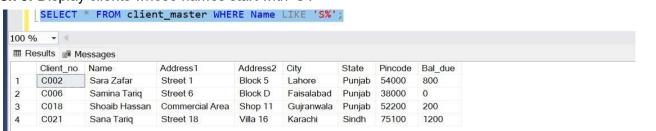
Task 3: List all products with quantity less than 30.



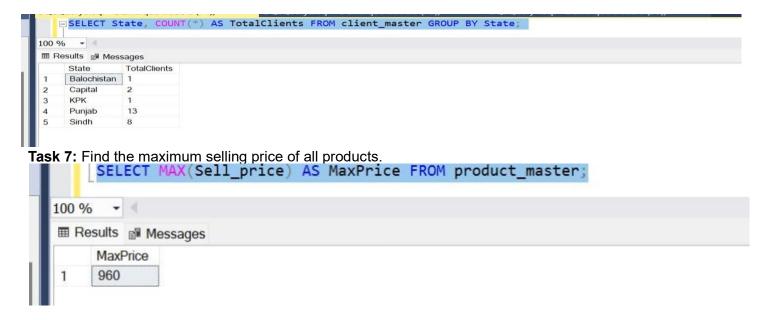
Task 4: Show all unique states from the clients table.



Task 5: Display clients whose names start with 'S'.



Task 6: Show the total number of clients in each state.



Task 8: Increase the balance due by 1000 for clients living in 'Karachi'.

```
UPDATE client_master SET Bal_due = Bal_due + 1000 WHERE City = 'Karachi';

100 % 
Messages

(7 rows affected)

Completion time: 2025-05-15T09:33:26.8293402+05:00
```

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Task 9: Write a query to add an 'Email' column to the client_master table.

```
ALTER TABLE client_master ADD Email VARCHAR(50);

100 % 
Messages

Commands completed successfully.

Completion time: 2025-05-15T09:34:14.8610534+05:00
```

Conclusion:

In this lab, we successfully created and managed the client_master and product_master tables using key SQL commands such as SELECT, WHERE, UPDATE, and ALTER TABLE. Through practical tasks like data retrieval, table modification, and data manipulation, we gained hands-on experience with real-world retail database scenarios. This lab strengthened our understanding of SQL operations and enhanced our ability to manage and analyze structured data efficiently in a database system.