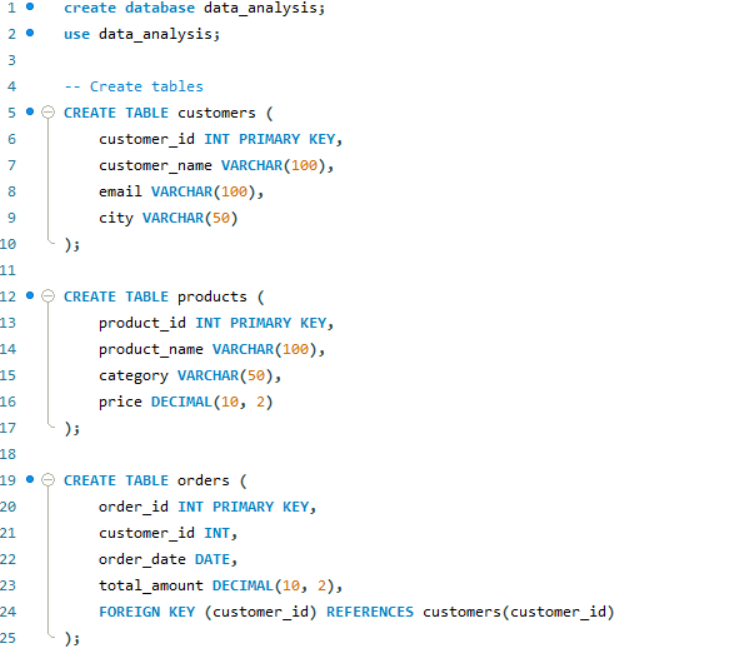
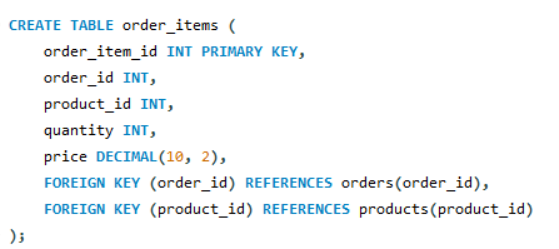
# **Task 4: SQL for Data Analysis**

# **Objective: Use SQL queries to extract and analyze data from a database.**

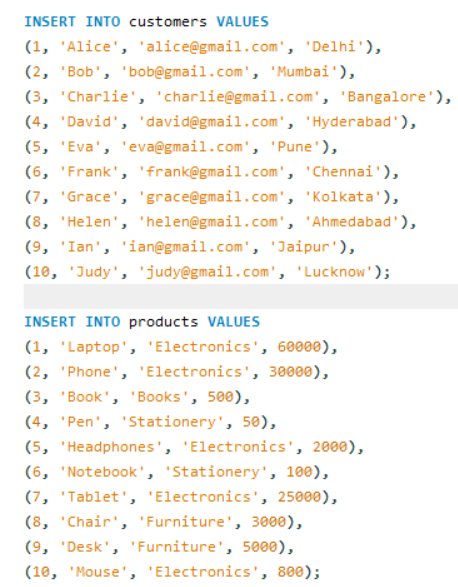
# **Tools: MySQL, PostgreSQL, or SQLite**

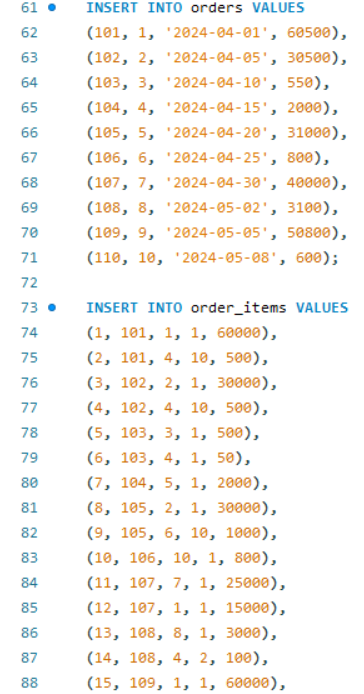
Database and Tables





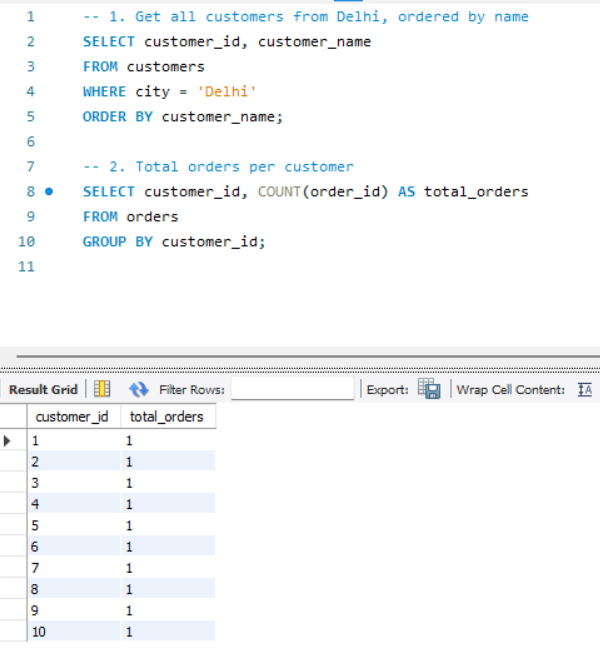
Entries of random values in the Tables



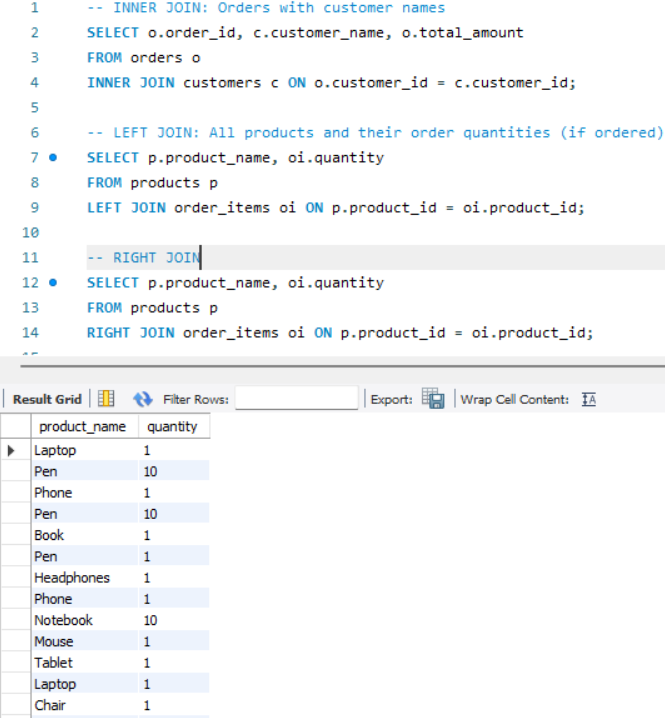


MySQL queries:-

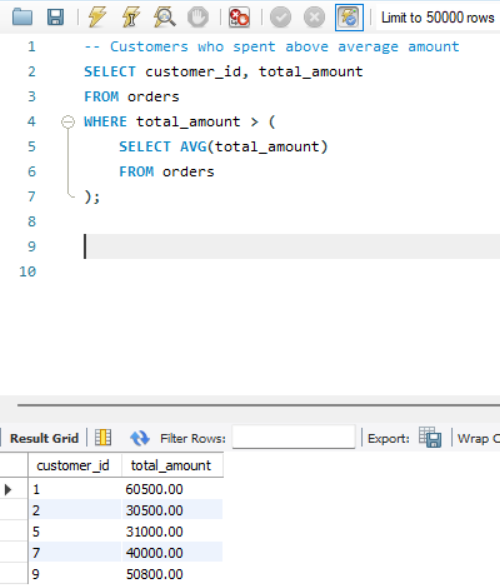
**Use SELECT, WHERE, ORDER BY, GROUP BY**

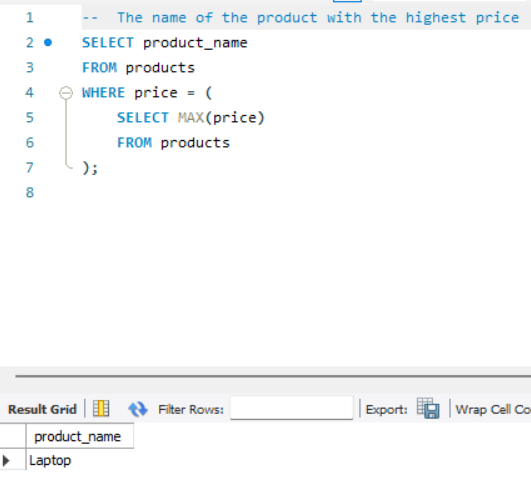


**Use JOINS (INNER, LEFT, RIGHT)**

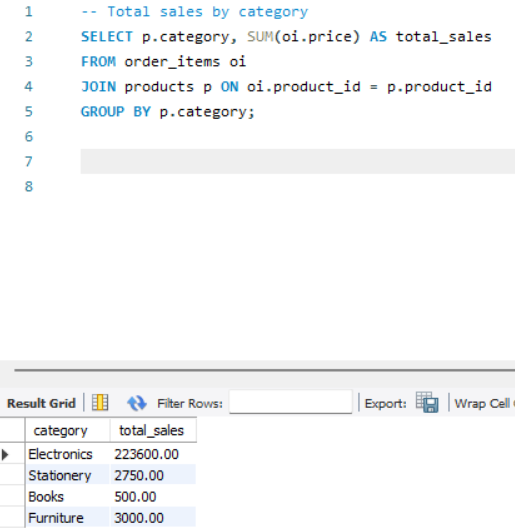


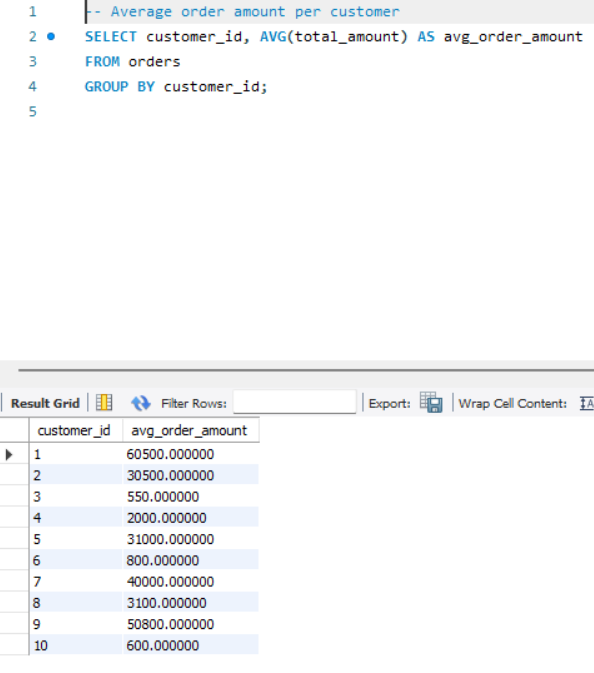
**Write subqueries**



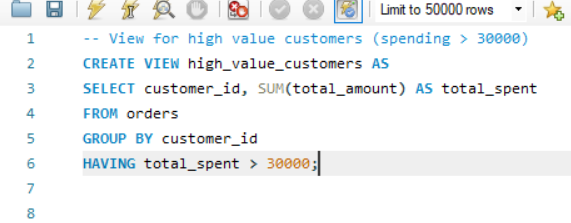


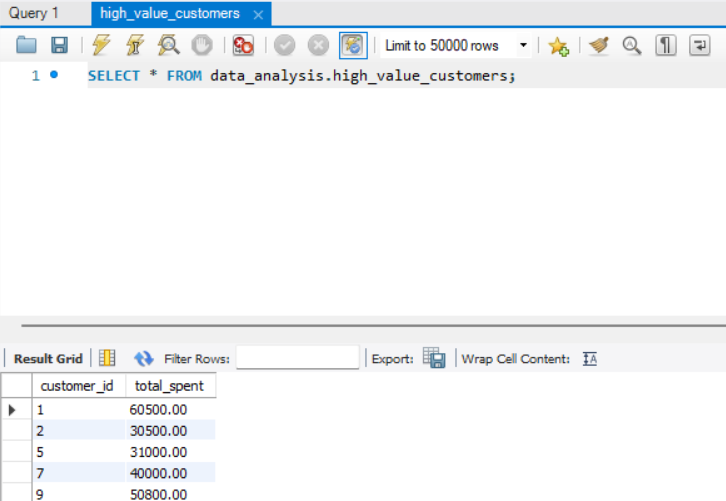
**Use aggregate functions (SUM, AVG)**

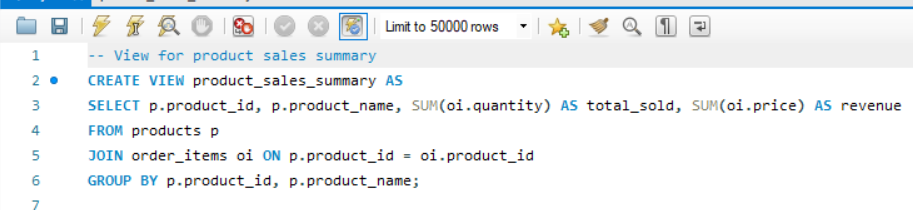


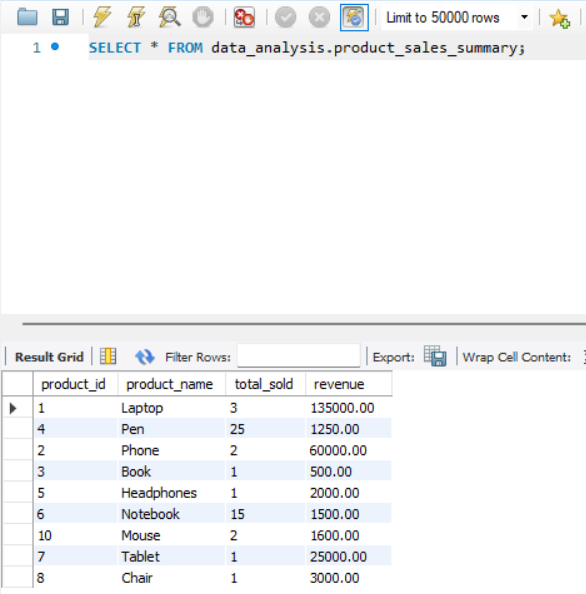


**Create views for analysis**









**Optimize queries with indexes**

