Task 4: SQL for Data Analysis

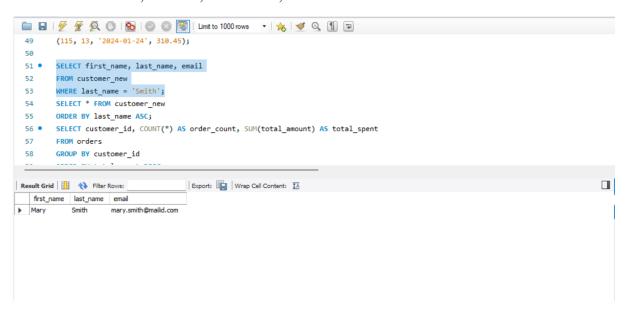
Dataset - customer.csv

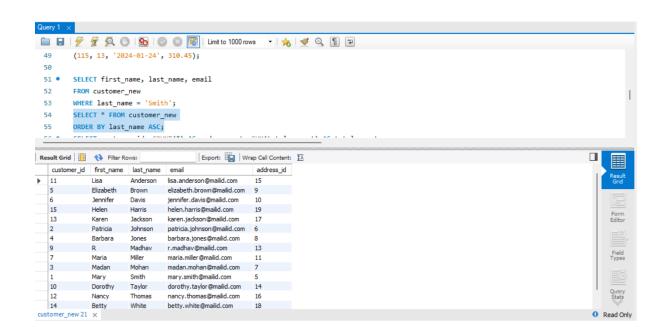
Name - Vani Goel

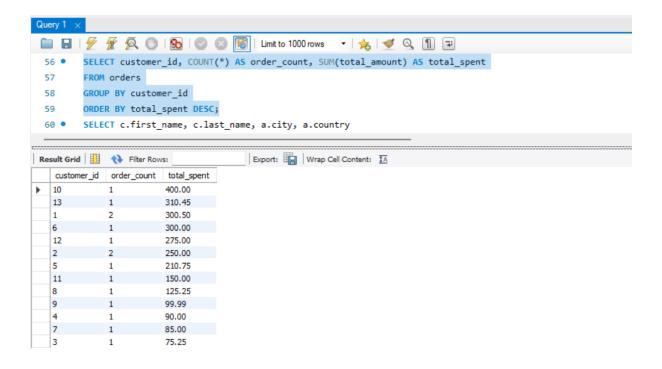
Email ID -vanigoel.110@gmail.com

SQL QUERIES:-

1. Use SELECT, WHERE, ORDER BY, GROUP BY



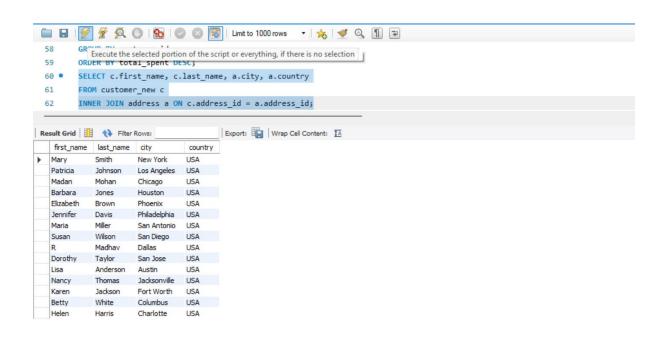


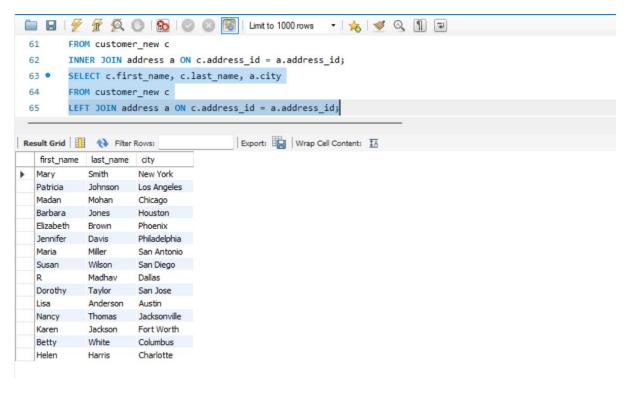


2. Use JOINS (INNER, LEFT, RIGHT)

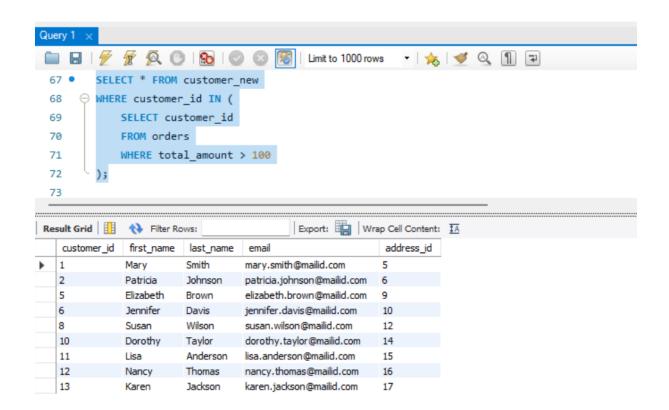
```
1 • SELECT * FROM chinook.customer_new;
 2 • USE CHINOOK
 3 ☑ ⊝ CREATE TABLE address (
 4
        address_id INT PRIMARY KEY,
 5
         city VARCHAR(50),
         state VARCHAR(50),
 6
 7
          country VARCHAR(50)
 8
 9
10 • INSERT INTO address (address_id, city, state, country) VALUES
      (5, 'New York', 'NY', 'USA'),
11
     (6, 'Los Angeles', 'CA', 'USA'),
13
     (7, 'Chicago', 'IL', 'USA'),
      (8, 'Houston', 'TX', 'USA'),
14
      (9, 'Phoenix', 'AZ', 'USA'),
15
      (10, 'Philadelphia', 'PA', 'USA'),
      (11, 'San Antonio', 'TX', 'USA'),
      (12, 'San Diego', 'CA', 'USA'),
      (13, 'Dallas', 'TX', 'USA'),
19
     (14, 'San Jose', 'CA', 'USA'),
21
     (15, 'Austin', 'TX', 'USA'),
     (16, 'Jacksonville', 'FL', 'USA'),
```

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         (19, 'Charlotte', 'NC', 'USA');
  26
  27 ullet \ominus CREATE TABLE orders (
            order_id INT PRIMARY KEY,
  28
  29
            customer_id INT,
  30
            order_date DATE,
            total amount DECIMAL(10, 2)
  31
  32
  33
  34 • INSERT INTO orders (order_id, customer_id, order_date, total_amount) VALUES
        (101, 1, '2024-01-10', 120.50),
  35
        (102, 2, '2024-01-11', 200.00),
  36
       (103, 3, '2024-01-12', 75.25),
       (104, 1, '2024-01-13', 180.00),
  38
        (105, 4, '2024-01-14', 90.00),
        (106, 5, '2024-01-15', 210.75),
  40
  41
        (107, 2, '2024-01-16', 50.00),
        (108, 6, '2024-01-17', 300.00),
  42
        (109, 7, '2024-01-18', 85.00),
  43
        (110, 8, '2024-01-19', 125.25),
       (111, 9, '2024-01-20', 99.99),
  45
         (112, 10, '2024-01-21', 400.00),
```

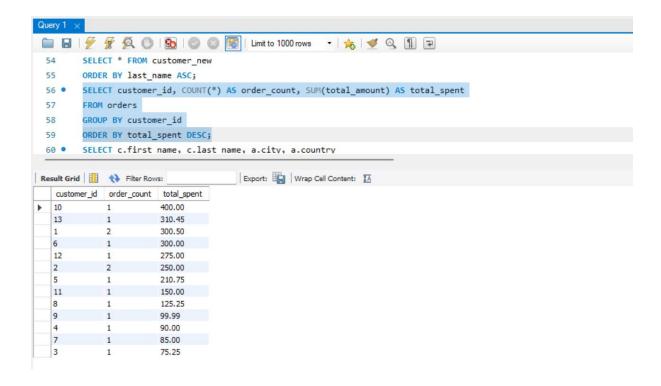




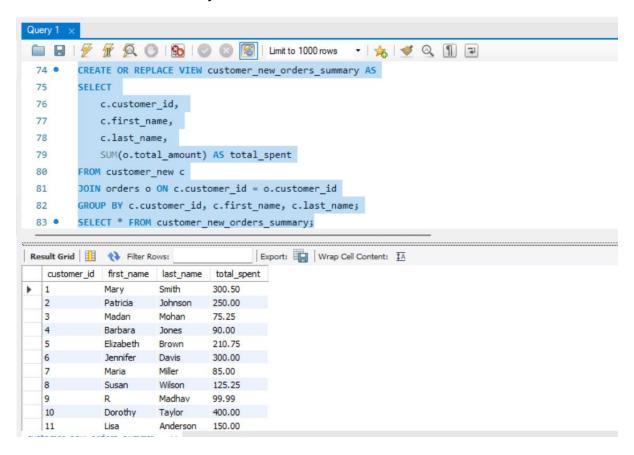
3. Write subqueries



4. Use aggregate functions (SUM, AVG)



5. Create views for analysis



6. Optimize queries with indexes

