SQL Based -Customer Order Analysis

-- SQL to Create DATABASE and TABLE:

```
Query 1
          SQL File 2*
                        SQL File 3* SQL File 4*
                                                   SQL File 5*
                                                                SQL File 6*
                                             Limit to 1000 rows - | 🏡 |
        -- SOL to Create DATABASE and TABLE:
        create database project;
  3 • use project;
```

-- Create table

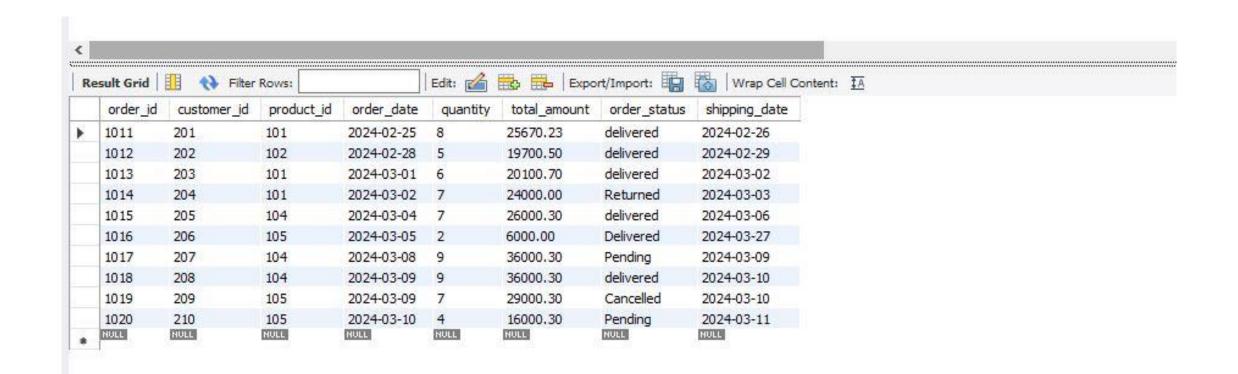
-- Create table

```
⊕ Create table orders (
  order_id int primary key,
  customer_id int,
  product_id int,
  order_date date,
  quantity int,
  total_amount decimal(10,2),
  order_status varchar (20),
  shipping_date date
  );
```

-- insert data into table

```
Limit to 1000 rows 🔻 🞠 💜 🔍 👖
           1 Q 0 S S
       -- insert data into table
1
 2
       Insert into orders values
 3 •
 4
       (1011, 201, 101, '2024-02-25', 8, 25670.23, 'delivered', '2024-02-26'),
 5
       (1012,202, 102, '2024-02-28', 5, 19700.50, 'delivered', '2024-02-29'),
       (1013,203,101, '2024-03-01', 6, 20100.70, 'delivered', '2024-03-02'),
 6
 7
       (1014,204, 101, '2024-03-02', 7, 24000, 'Returned', '2024-03-03'),
 8
       (1015, 205, 104, '2024-03-04', 7, 26000.30, 'delivered', '2024-03-06'),
 9
       (1016, 206, 105, '2024-03-05', 2, 6000.0, 'Delivered', '2024-03-27'),
       (1017, 207, 104, '2024-03-08', 9, 36000.30, 'Pending', '2024-03-09'),
10
11
       (1018, 208, 104, '2024-03-09', 9, 36000.30, 'delivered', '2024-03-10'),
12
       (1019, 209, 105, '2024-03-09', 7, 29000.30, 'Cancelled', '2024-03-10'),
13
       (1020, 210, 105, '2024-03-10', 4, 16000.30, 'Pending', '2024-03-11');
14
15
```

Orders Table View



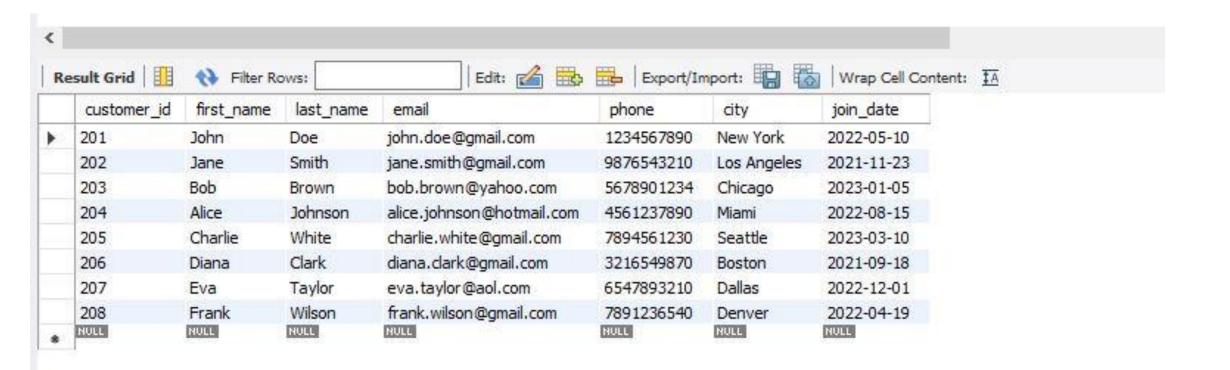
-- Create customer table

```
-- Create customer table
2
       CREATE TABLE customers (
           customer_id INT PRIMARY KEY,
5
           first_name VARCHAR(50),
           last_name VARCHAR(50),
6
           email VARCHAR(100),
8
           phone VARCHAR(15),
           city VARCHAR(50),
10
           join_date DATE
11
       );
12
13
```

---- Insert data into customer table

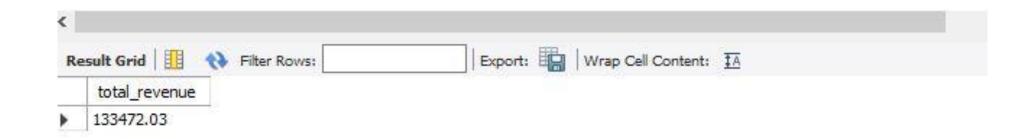
```
Limit to 1000 rows
                                                       · 🚖 🦪 Q 🗓 🖘
       ---- Insert data into customer table
 2
 3 •
       INSERT INTO customers VALUES
       (201, 'John', 'Doe', 'john.doe@gmail.com', '1234567890', 'New York', '2022-05-10'),
       (202, 'Jane', 'Smith', 'jane.smith@gmail.com', '9876543210', 'Los Angeles', '2021-11-23'),
       (203, 'Bob', 'Brown', 'bob.brown@yahoo.com', '5678901234', 'Chicago', '2023-01-05'),
 6
       (204, 'Alice', 'Johnson', 'alice.johnson@hotmail.com', '4561237890', 'Miami', '2022-08-15'),
       (205, 'Charlie', 'White', 'charlie.white@gmail.com', '7894561230', 'Seattle', '2023-03-10'),
       (206, 'Diana', 'Clark', 'diana.clark@gmail.com', '3216549870', 'Boston', '2021-09-18'),
 9
       (207, 'Eva', 'Taylor', 'eva.taylor@aol.com', '6547893210', 'Dallas', '2022-12-01'),
10
11
       (208, 'Frank', 'Wilson', 'frank.wilson@gmail.com', '7891236540', 'Denver', '2022-04-19');
12
```

Customers Table View



-- 1. Find the Total Revenue Generated

```
1  -- 1. Find the Total Revenue Generated
2
3 • select * from orders;
4 • select sum(total_amount) as total_revenue
5
6  from orders
7
8  where order_status = 'delivered';
9
```



-- 2.) Find the Most Frequently Ordered Product

```
-- 2.) Find the Most Frequently Ordered Product

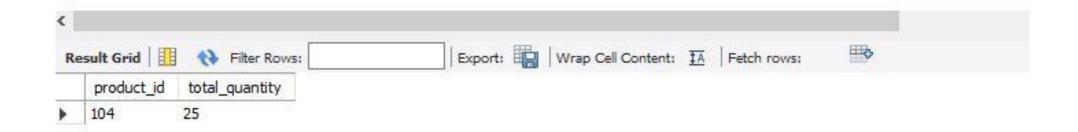
select product_id , sum(quantity) as total_quantity

from orders

group by product_id

order by total_quantity desc

limit 1;
```



-- 3.) List All Orders That Were Delivered Late

```
-- 3.) List All Orders That Were Delivered Late
         select * from orders;
   5 .
         select order_id, shipping_date , order_date
   6
         from orders
   8
         where shipping_date > date_add(order_date, interval 1 day);
   9
<
                                         Edit: 🕍 🖶 | Export/Import: 📳 📸 | Wrap Cell Content: 🔣
order_id
           shipping_date
                       order_date
   1015
           2024-03-06
                       2024-03-04
   1016
           2024-03-27
                       2024-03-05
  NULL
           NULL
                       NULL
```

-- 4.) Calculate the Average Order Value for Each Customer

```
-- 4.) Calculate the Average Order Value for Each Customer
        select * from orders;
        select * from customers;
        select customers.first_name, customers.last_name, avg(orders.total_amount) as avg_amount
 7
        from customers
 8
 9
        join orders on customers.customer id = orders.customer id
10
11
        where orders.order status= 'delivered'
12
13
                                           Export: Wrap Cell Content: TA
tesult Grid Filter Rows:
  first_name
           last_name
                      avg_amount
  John
            Doe
                      25670.230000
            Smith
                      19700.500000
  Bob
            Brown
                      20100.700000
            White
  Charlie
                      26000.300000
  Diana
            Clark
                      6000.000000
  Frank
            Wilson
                      36000.300000
```

-- 5.) List Customers Who Have Made More Than 1 Order

```
-- 5.) List Customers Who Have Made More Than 1 Order
        select * from orders;
 3 .
        select * from customers;
 5
        select customers.first_name, customers.last_name , count(orders.order_id) as total_orders
 7
        from customers
 8
 9
        join orders on orders.customer id = customers.customer id
10
11
12
        group by customers.first name, customers.last name
13
        having total orders >1;
14
                                          Export: Wrap Cell Content: TA
Result Grid
              Filter Rows:
   first name
            last_name total_orders
```