**DBMS LAB INTERNAL**

**SET- I**

**Table 1: Customers**

- Primary Key: customer_id (integer)
- Columns: customer_id, customer_name, email, phone_number

Sample Data:

| customer_id | customer_name | email | phone_number |
|---|---|---|---|
| 1 | John Doe | johndoe@example.com | 123-456-7890 |
| 2 | Jane Smith | janesmith@example.com | 987-654-3210 |
| 3 | Michael Brown | mbrown@example.com | 555-123-4567 |
| 4 | Emily Davis | edavis@example.com | 777-888-9999 |
| 5 | Sarah Johnson | sjohnson@example.com | 111-222-3333 |

**Table 2: Orders**

- Primary Key: order_id (integer)
- Foreign Key: customer_id (references Customers.customer_id)
- Columns: order_id, customer_id, order_date, total_amount

Sample Data:

**Table 2: Orders**

| order_id | customer_id | product_id | order_date | total_amount |
|---|---|---|---|---|
| 1 | 2 | 1 | 2023-06-20 | 150.00 |
| 2 | 1 | 2 | 2023-06-22 | 75.50 |
| 3 | 4 | 3 | 2023-06-25 | 200.00 |
| 4 | 3 | 4 | 2023-06-27 | 50.00 |
| 5 | 2 | 5 | 2023-06-29 | 300.00 |

**Table 3: Products**

- Primary Key: product_id (integer)
- Columns: product_id, product_name, unit_price

Sample Data:

| product_id | product_name | unit_price |
|---|---|---|
| 1 | T-Shirt | 20.00 |
| 2 | Jeans | 50.00 |
| 3 | Shoes | 80.00 |
| 4 | Hat | 15.00 |
| 5 | Jacket | 100.00 |

Note: In the "Orders" table, the "customer_id" column is a foreign key referencing the "customer_id" column in the "Customers" table.

1. Retrieve the total number of orders for each customer.

2. Retrieve the order details (order_id, customer_name, total_amount) for orders with a total amount greater than $100.

3. Retrieve the customer name and the count of their orders, only for customers who have placed more than 1 order.

4. Retrieve the customer name and the total amount of their orders, sorted by the total amount in descending order.

5. Retrieve the product names and their corresponding orders' count.

6. Retrieve the customer names and the average total amount of their orders, only for customers with an average total amount greater than $100.

7. Retrieve the customer names and the product names they have ordered, only for customers who have ordered the product with product_id = 2.

8. Retrieve the customer names and their corresponding order count, only for customers who have placed more orders than the average order count.