SQL ASSIGNMENT 4

Dataset: Customer Information

You have been given a dataset containing information about customers. The dataset includes the following columns:

- customer_id (integer): Unique identifier for each customer.
- first_name (string): First name of the customer.
- last_name (string): Last name of the customer.
- gender (string): Gender of the customer (e.g., 'Male' or 'Female').
- city (string): The city where the customer resides.
- age (integer): The age of the customer

Table Structure:

Create a table named customers with the following structure:

```
CREATE OR REPLACE TABLE CUSTOMERS
(

CUSTOMER_ID INT PRIMARY KEY,

FIRST_NAME VARCHAR(50),

LAST_NAME VARCHAR(50),

GENDER VARCHAR(10),

CITY VARCHAR(50),

AGE INT
);
```

(6, 'Lisa', 'Brown', 'Female', 'New York', 32),

Insert Data:

Insert the following sample data into the customers table:

```
INSERT INTO CUSTOMERS (CUSTOMER_ID, FIRST_NAME, LAST_NAME, GENDER, CITY, AGE)

VALUES

(1, 'John', 'Doe', 'Male', 'New York', 35),

(2, 'Jane', 'Smith', 'Female', 'Los Angeles', 28),

(3, 'Michael', 'Johnson', 'Male', 'Chicago', 45),

(4, 'Emily', 'Davis', 'Female', 'Houston', 22),

(5, 'David', 'Wilson', 'Male', 'Miami', 40),
```

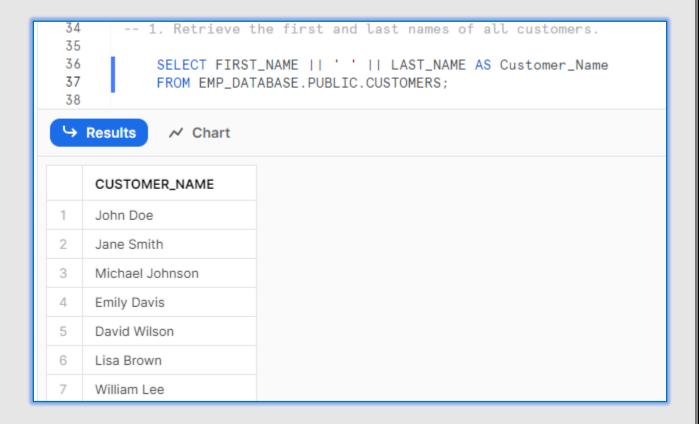
```
(7, 'William', 'Lee', 'Male', 'Los Angeles', 29), (8, 'Sarah', 'White', 'Female', 'Chicago', 50), (9, 'James', 'Harris', 'Male', 'Houston', 37), (10, 'Maria', 'Martin', 'Female', 'Miami', 24);
```

Instructions:

Write SQL queries to answer the following questions using the customers table:

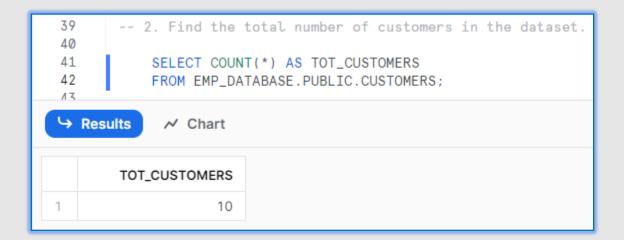
1. Retrieve the first and last names of all customers.

SELECT FIRST_NAME || ' ' || LAST_NAME AS Customer_Name FROM EMP_DATABASE.PUBLIC.CUSTOMERS;



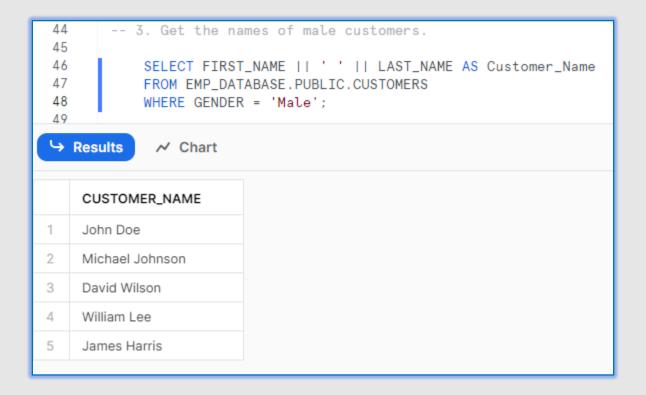
2. Find the total number of customers in the dataset.

SELECT COUNT(*) AS TOT_CUSTOMERS FROM EMP_DATABASE.PUBLIC.CUSTOMERS;



3. Get the names of male customers.

SELECT FIRST_NAME || ' ' || LAST_NAME AS Customer_Name FROM EMP_DATABASE.PUBLIC.CUSTOMERS WHERE GENDER = 'Male';



4. Find customers who are aged 30 or older.

SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS WHERE AGE >= 30:

```
50
        -- 4. Find customers who are aged 30 or older.
51
52
             SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS
53
            WHERE AGE >= 30:
54
→ Results

→ Chart

     CUSTOMER_ID
                     FIRST_NAME
                                    LAST_NAME
                                                 GENDER
                                                             CITY
                                                                            AGE
1
                     John
                                    Doe
                                                 Male
                                                             New York
                                                                              35
                     Michael
                                                 Male
2
                 3
                                    Johnson
                                                             Chicago
                                                                              45
3
                 5
                     David
                                    Wilson
                                                             Miami
                                                 Male
                                                                              40
4
                 6
                     Lisa
                                    Brown
                                                 Female
                                                             New York
                                                                              32
5
                 8
                     Sarah
                                    White
                                                 Female
                                                             Chicago
                                                                              50
6
                 9
                     James
                                    Harris
                                                 Male
                                                             Houston
                                                                              37
```

5. List customers from New York.

SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS WHERE CITY = 'New York';



6. Retrieve customers whose first name starts with 'J'.

SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS WHERE FIRST_NAME LIKE 'J%';

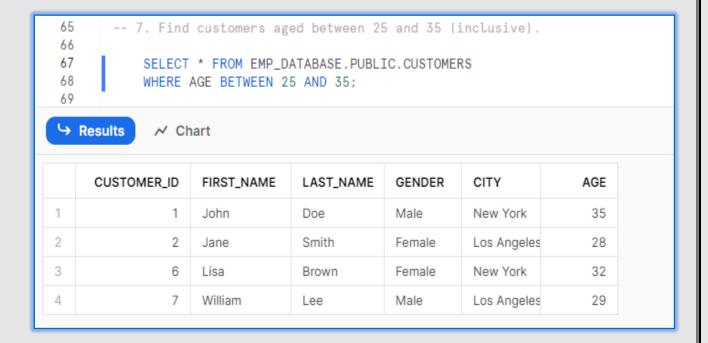
```
60
        -- 6. Retrieve customers whose first name starts with 'J'.
61
62
            SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS
63
            WHERE FIRST_NAME LIKE 'J%';
64
→ Results

✓ Chart

     CUSTOMER_ID
                    FIRST_NAME
                                                GENDER
                                                           CITY
                                                                           AGE
                                   LAST_NAME
1
                1
                    John
                                   Doe
                                                Male
                                                           New York
                                                                            35
2
                2
                    Jane
                                   Smith
                                                Female
                                                           Los Angeles
                                                                            28
3
                9
                                   Harris
                                                           Houston
                    James
                                                Male
                                                                            37
```

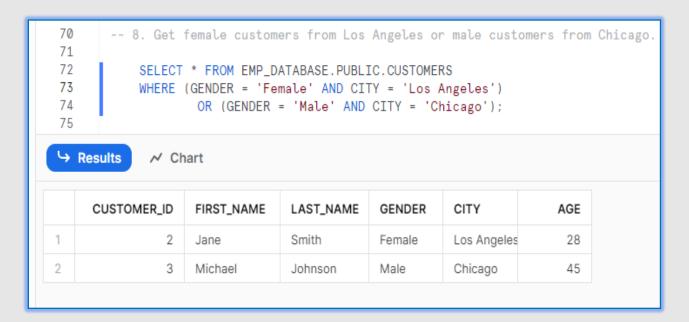
7. Find customers aged between 25 and 35 (inclusive).

SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS WHERE AGE BETWEEN 25 AND 35;



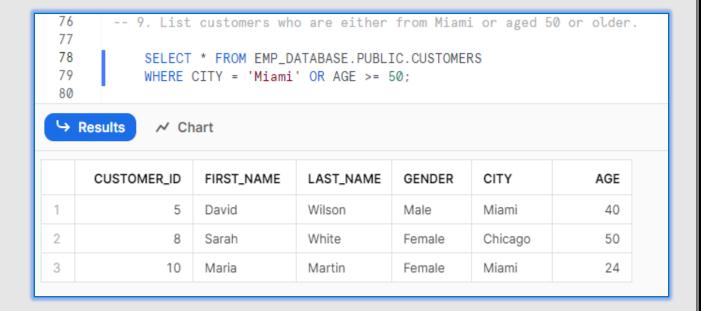
8. Get female customers from Los Angeles or male customers from Chicago.

```
SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS
WHERE (GENDER = 'Female' AND CITY = 'Los Angeles')
OR (GENDER = 'Male' AND CITY = 'Chicago');
```



9. List customers who are either from Miami or aged 50 or older.

```
SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS WHERE CITY = 'Miami' OR AGE >= 50;
```



10. Find customers with names 'John' or 'Jane' and aged less than 30.

SELECT * FROM EMP_DATABASE.PUBLIC.CUSTOMERS WHERE FIRST_NAME IN ('John', 'Jane') AND AGE < 30;

