

SQL ASSIGNMENT 04

PROBLEM STATEMENT

1. Retrieve the first and last names of all customers.
2. Find the total number of customers in the dataset.
3. Get the names of male customers.
4. Find customers who are aged 30 or older.
5. List customers from New York.
6. Retrieve customers whose first name starts with 'J'.
7. Find customers aged between 25 and 35 (inclusive).
8. Get female customers from Los Angeles or male customers from Chicago.
9. List customers who are either from Miami or aged 50 or older.
10. Find customers with the names 'John' or 'Jane' and aged less than 30.

DATABASE

Created a Demodatabase in the Snowflake and then run a command **Use Database**

```
USE DATABASE DEMODATABASE ;
```

Creating a **Customers Table**

```
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
);
```

-- INSERTING 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),
(6, 'Lisa', 'Brown', 'Female', 'New York', 32),
(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);
```

Q1. Retrieve the first and last names of all customers.

```
SELECT FIRST_NAME, LAST_NAME
FROM CUSTOMERS;
```

OUTPUT

	FIRST_NAME	LAST_NAME	...
1	John	Doe	
2	Jane	Smith	
3	Michael	Johnson	
4	Emily	Davis	
5	David	Wilson	
6	Lisa	Brown	
7	William	Lee	
8	Sarah	White	
9	James	Harris	
10	Maria	Martin	

Q2. Find the total number of customers in the dataset.

```
SELECT COUNT(CUSTOMER_ID) AS TOTAL_CUSTOMERS  
FROM CUSTOMERS;
```

OUTPUT

	...	TOTAL_CUSTOMERS
1		10

Q3. Get the names of male customers.

```
SELECT FIRST_NAME, LAST_NAME  
FROM CUSTOMERS  
WHERE GENDER = 'Male';
```

OUTPUT

	FIRST_NAME	LAST_NAME	...
1	John	Doe	
2	Michael	Johnson	
3	David	Wilson	
4	William	Lee	
5	James	Harris	

Q4. Find customers who are aged 30 or older.

```
SELECT FIRST_NAME, LAST_NAME  
FROM CUSTOMERS  
WHERE AGE >= 30;
```

OUTPUT

	FIRST_NAME	LAST_NAME	...
1	John	Doe	
2	Michael	Johnson	
3	David	Wilson	
4	Lisa	Brown	
5	Sarah	White	
6	James	Harris	

Q5. List customers from New York.

```
SELECT FIRST_NAME, LAST_NAME
FROM CUSTOMERS
WHERE CITY = 'New York';
```

OUTPUT

	FIRST_NAME	...	LAST_NAME
1	John		Doe
2	Lisa		Brown

Q6. Retrieve customers whose first name starts with 'J'.

```
SELECT FIRST_NAME  
FROM CUSTOMERS  
WHERE FIRST_NAME LIKE 'J%';
```

OUTPUT

	FIRST_NAME
1	John
2	Jane
3	James

Q7. Find customers aged between 25 and 35 (inclusive).

```
SELECT FIRST_NAME, LAST_NAME  
FROM CUSTOMERS  
WHERE AGE BETWEEN 25 AND 35;
```

OUTPUT

	FIRST_NAME	LAST_NAME	...
1	John	Doe	
2	Jane	Smith	
3	Lisa	Brown	
4	William	Lee	

Q8. Get female customers from Los Angeles or male customers from Chicago.

```
SELECT FIRST_NAME, LAST_NAME, CITY
FROM CUSTOMERS
WHERE GENDER = 'Female' AND CITY = 'Los Angeles' OR GENDER = 'Male' AND CITY = 'Chicago' ;
```

OUTPUT

	FIRST_NAME	LAST_NAME	CITY	...
1	Jane	Smith	Los Angeles	
2	Michael	Johnson	Chicago	

Q9. List customers who are either from Miami or aged 50 or older.

```
SELECT FIRST_NAME, LAST_NAME, CITY, AGE
FROM CUSTOMERS
WHERE CITY = 'Miami' OR AGE >= 50;
```

OUTPUT

	FIRST_NAME	LAST_NAME	CITY	...	AGE
1	David	Wilson	Miami		40
2	Sarah	White	Chicago		50
3	Maria	Martin	Miami		24

Q10 Find customers with names 'John' or 'Jane' and aged less than 30.

```
SELECT FIRST_NAME, AGE
FROM CUSTOMERS
WHERE AGE < 30 AND FIRST_NAME = 'John' OR FIRST_NAME = 'Jane';
```


OUTPUT

	FIRST_NAME	...	AGE
1	Jane		28