USE DATABASE SQL;

USE SCHEMA PUBLIC;

CREATE TABLE customers (

customer\_id INT PRIMARY KEY,

first\_name VARCHAR(50),

last\_name VARCHAR(50),

gender VARCHAR(10),

city VARCHAR(50),

age INT

);

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);

SELECT \* FROM CUSTOMERS;

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

SELECT FIRST\_NAME|| ' ' ||LAST\_NAME AS CUST\_FULLNAME

FROM CUSTOMERS;

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

SELECT COUNT(DISTINCT(CUSTOMER\_ID)) AS TOT\_NO\_CUST

FROM CUSTOMERS;

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--3. Get the names of male customers.

SELECT FIRST\_NAME|| ' ' ||LAST\_NAME AS CUST\_FULLNAME, GENDER

FROM CUSTOMERS

WHERE GENDER = 'Male';

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--4. Find customers who are aged 30 or older.

SELECT FIRST\_NAME|| ' ' ||LAST\_NAME AS CUST\_FULLNAME, AGE

FROM CUSTOMERS

WHERE AGE >=30;

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--5. List customers from New York.

SELECT FIRST\_NAME|| ' ' ||LAST\_NAME AS CUST\_FULLNAME, CITY

FROM CUSTOMERS

WHERE CITY = 'New York';

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

SELECT \* FROM CUSTOMERS

WHERE FIRST\_NAME LIKE 'J%';

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

SELECT \* FROM CUSTOMERS

WHERE AGE BETWEEN 25 AND 35;

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

SELECT \* FROM CUSTOMERS

WHERE (GENDER = 'Female' AND CITY = 'Los Angeles') OR (GENDER = 'Male' AND CITY = 'Chicago');

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

SELECT \* FROM CUSTOMERS

WHERE CITY ='Miami' OR AGE >=50;

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

SELECT \* FROM CUSTOMERS

WHERE (FIRST\_NAME IN ('John','Jane')) AND AGE <30;

