**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

);

**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),

(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);

**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;

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1. **Find the total number of customers in the dataset.**

SELECT COUNT(\*) AS TOT\_CUSTOMERS

FROM EMP\_DATABASE.PUBLIC.CUSTOMERS;

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1. **Get the names of male customers.**

SELECT FIRST\_NAME || ' ' || LAST\_NAME AS Customer\_Name

FROM EMP\_DATABASE.PUBLIC.CUSTOMERS

WHERE GENDER = 'Male';

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1. **Find customers who are aged 30 or older.**

SELECT \* FROM EMP\_DATABASE.PUBLIC.CUSTOMERS

WHERE AGE >= 30;

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1. **List customers from New York.**

SELECT \* FROM EMP\_DATABASE.PUBLIC.CUSTOMERS

WHERE CITY = 'New York';

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1. **Retrieve customers whose first name starts with 'J'.**

SELECT \* FROM EMP\_DATABASE.PUBLIC.CUSTOMERS

WHERE FIRST\_NAME LIKE 'J%';

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1. **Find customers aged between 25 and 35 (inclusive).**

SELECT \* FROM EMP\_DATABASE.PUBLIC.CUSTOMERS

WHERE AGE BETWEEN 25 AND 35;

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1. **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');

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

SELECT \* FROM EMP\_DATABASE.PUBLIC.CUSTOMERS

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

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1. **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;

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**\*\*\*\*\*\*\*\*\*\*\*\*\*\* THANK YOU \*\*\*\*\*\*\*\*\*\*\*\*\*\*\***