<u>Assignment - 4 : SQL WHERE Clause and Logical</u> <u>Operators</u>

<u>Creating a table named Customers with the following structure:</u>

```
____,
2
     -----CREATING A TABLE CALLED CUSTOMERS-----
5
    CREATE OR REPLACE TABLE customers (
    customer_id INT PRIMARY KEY,
6
    first_name VARCHAR(50),
7
    last_name VARCHAR(50),
   gender VARCHAR(10),
9
   city VARCHAR(50),
10
   age INT );
11
12
```

Inserting the data in the table Sales:-

Results:-After data insertion Table be Like-

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	GENDER	CITY	AGE
1	1	John	Doe	Male	New York	35
2	2	Jane	Smith	Female	Los Angeles	28
3	3	Michael	Johnson	Male	Chicago	45
4	4	Emily	Davis	Female	Houston	22
5	5	David	Wilson	Male	Miami	40
6	6	Lisa	Brown	Female	New York	32
7	7	William	Lee	Male	Los Angeles	29
8	8	Sarah	White	Female	Chicago	50
9	9	James	Harris	Male	Houston	37
10	10	Maria	Martin	Female	Miami	24

Below are the question answer with their results of the SQL Queries .:-

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

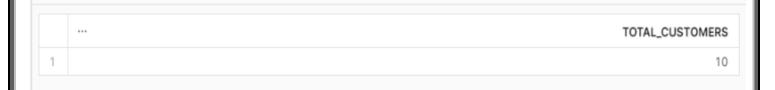
SELECT FIRST_NAME,LAST_NAME FROM CUSTOMERS;

Results:-

	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

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

SELECT COUNT(CUSTOMER_ID) AS TOTAL_CUSTOMERS FROM CUSTOMERS;



3. Get the names of male customers.

SELECT (FIRST_NAME | | ' ' | | LAST_NAME) AS CUSTOMER_NAME,GENDER

FROM CUSTOMERS

WHERE GENDER = 'Male';

Results:-

	CUSTOMER_NAME	GENDER
1	John Doe	Male
2	Michael Johnson	Male
3	David Wilson	Male
4	William Lee	Male
5	James Harris	Male

4. Find customers who are aged 30 or older.

select (FIRST_NAME | | ' ' | | LAST_NAME) AS CUSTOMER_NAME, AGE

from CUSTOMERS

WHERE AGE >= 30;

	CUSTOMER_NAME	***	AGE
1	John Doe		35
2	Michael Johnson		45
3	David Wilson		40
4	Lisa Brown		32
5	Sarah White		50
6	James Harris		37

5. List customers from New York.

SELECT (FIRST_NAME | | ' ' | | LAST_NAME) AS CUSTOMER_NAME

FROM CUSTOMERS

WHERE CITY IN ('New York');

Results:-



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

select (FIRST_NAME | | ' ' | | LAST_NAME) AS CUSTOMER_NAME

from CUSTOMERS

WHERE FIRST_NAME LIKE 'J%';



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

SELECT (FIRST_NAME | | ' ' | | LAST_NAME) AS CUSTOMER_NAME ,AGE

FROM CUSTOMERS

WHERE AGE BETWEEN 25 AND 35;

Results:-

	CUSTOMER_NAME	***	AGE
	John Doe		35
	Jane Smith		28
	Lisa Brown		32
Į.	William Lee		29

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

SELECT (FIRST_NAME | | ' ' | | LAST_NAME) AS CUSTOMER_NAME, GENDER, CITY

FROM CUSTOMERS

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

	CUSTOMER_NAME	GENDER	CITY
1	Jane Smith	Female	Los Angeles
2	Michael Johnson	Male	Chicago

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

SELECT (FIRST_NAME | | ' ' | | LAST_NAME) AS CUSTOMER_NAME ,CITY,AGE

FROM CUSTOMERS

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

Results:-

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

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

SELECT FIRST_NAME AS CUSTOMER_NAME, AGE

FROM CUSTOMERS

WHERE (FIRST_NAME = 'John' OR FIRST_NAME = 'Jane') and AGE < 30;

