**Practical 7**

**Aim**: Perform all the SQL join queries

Q ) Create 2 tables, Customer Table with the following attributes (C\_ID,C\_NAME,ADDR) and Orders table with the following attributes (O\_ID,O\_NAME,C\_ID) and perform the following joins :

1)Inner Joins

2)Left Joins

3)Right Joins

4)Left Joins(where B.Key is NULL)

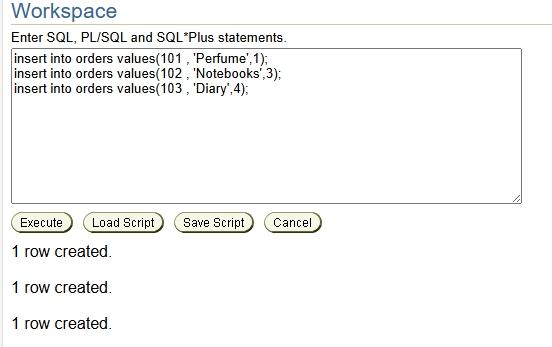
5)Right Joins(Where A.key is NULL)

6)Full Outer Join

7)Full Outer Join( Where A.Key is NULL or B.Key is NULL)

**Answers:**

**Step1:** **Create tables Customer and Orders along with their attributes**

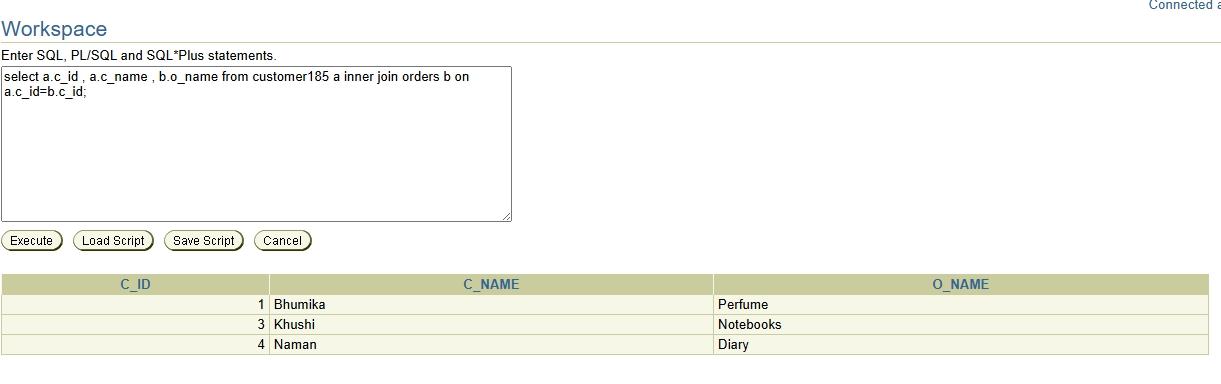
CREATE TABLE CUSTOMER(C\_ID NUMBER(20) PRIMARY KEY, C\_NAME VARCHAR(50) NOT NULL, ADDR VARCHAR(100) NOT NULL

CREATE TABLE ORDERS(O\_ID NUMBER(20) PRIMARY KEY , O\_NAME VARCHAR(50) NOT NULL,C\_ID NUMBER(20), FOREIGN KEY(C\_ID) REFERENCES CUSTOMER(C\_ID));

**Step2: Perform the queries on joins :**

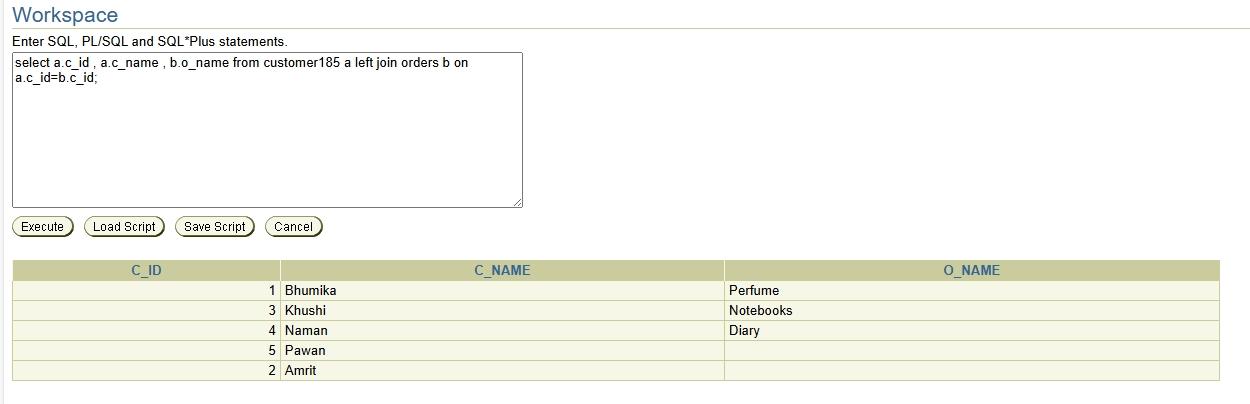
1)Inner Joins:

SELECT A.C\_ID,A.C\_NAME,B.O\_NAME FROM CUSTOMER A INNER JOIN ORDERS B ON A.C\_ID=B.C\_ID;



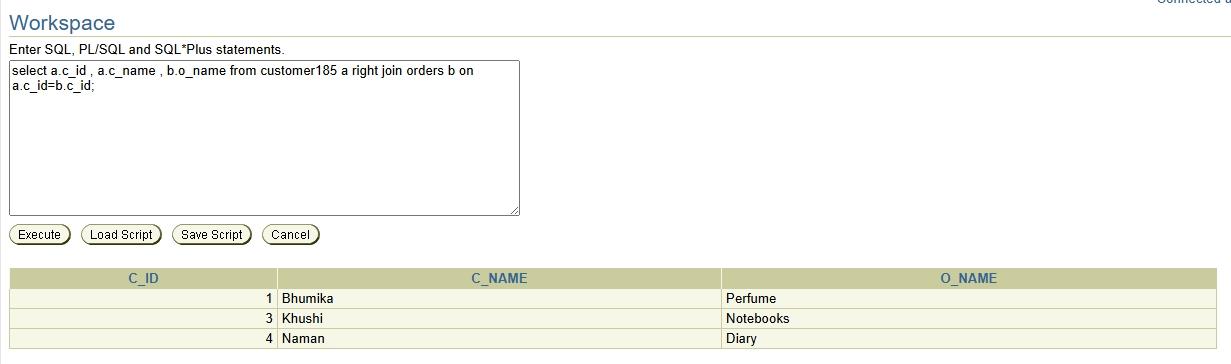
2)Left Joins:

SELECT A.C\_ID,A.C\_NAME,B.O\_NAME FROM CUSTOMER A LEFT JOIN ORDERS B ON A.C\_ID=B.C\_ID;



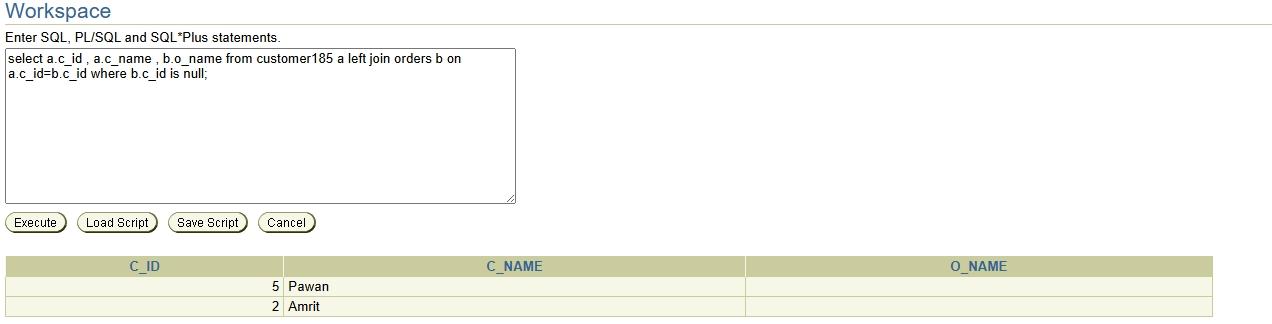
3)Right Joins:

SELECT A.C\_ID,A.C\_NAME,B.O\_NAME FROM CUSTOMER A RIGHT JOIN ORDERS B ON A.C\_ID=B.C\_ID;

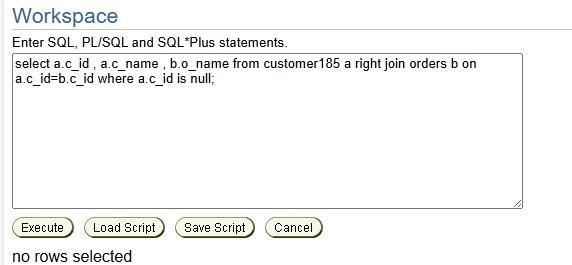


4) Left Joins(where B.Key is NULL):

SELECT A.C\_ID,A.C\_NAME,B.O\_NAME FROM CUSTOMER A LEFT JOIN ORDERS B ON A.C\_ID=B.C\_ID WHERE B.C\_ID IS NULL;

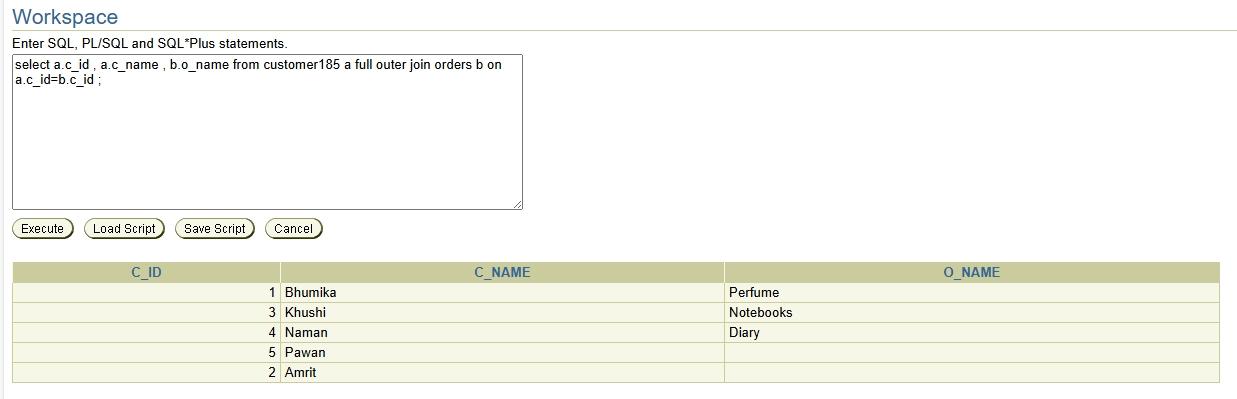


5) Right Joins(Where A.key is NULL):

SELECT A.C\_ID,A.C\_NAME,B.O\_NAME FROM CUSTOMER A RIGHT JOIN ORDERS B ON A.C\_ID=B.C\_ID WHERE A.C\_ID IS NULL;

6) Full Outer Join:

SELECT A.C\_ID,A.C\_NAME,B.O\_NAME FROM CUSTOMER A FULL OUTER JOIN ORDERS B ON A.C\_ID=B.C\_ID;



7) Full Outer Join( Where A.Key is NULL or B.Key is NULL):

SELECT A.C\_ID,A.C\_NAME,B.O\_NAME FROM CUSTOMER A FULL OUTER JOIN ORDERS B ON A.C\_ID=B.C\_ID WHERE A.C\_ID IS NULL OR B.C\_ID IS NULL;

