

## **RDBMS FUNDAMENTALS**

### **ASSIGNMENT 10:**

**Utilize a subquery to find customers who have placed orders above the average order value, and write a UNION query to combine two SELECT statements with the same number of columns.**

#### **CREATE TABLE CUSTOMER**

```
CREATE TABLE customer (  
    cid NUMBER PRIMARY KEY,  
    cname VARCHAR(20),  
    region VARCHAR(20)  
);
```

#### **INSERT VALUES TO CUSTOMER TABLE**

```
INSERT INTO customer VALUES(1, 'DEEPIKA NAIK', 'North');  
INSERT INTO customer VALUES (2, 'KIRAN NAIK, 'North');  
INSERT INTO customer VALUES (3, 'PRIYANKA', 'South');  
INSERT INTO customer VALUES (4, 'AISHWARYA', 'East');  
INSERT INTO customer VALUES (5, 'RAHUL', 'North');
```

#### **DISPLAY CUSTOMER TABLE**

```
SELECT * FROM customer;
```

#### **CREATE TABLE ORDER**

```
CREATE TABLE orders (  
    oid NUMBER PRIMARY KEY,  
    odate DATE,  
    ovalue DECIMAL(10,2),
```

```
        cid NUMBER REFERENCES customers(cid)

);
```

### **INSERT VALUES TO ORDER TABLE**

```
INSERT INTO order VALUES(101,'10-JAN-24',100.00,1),
INSERT INTO order VALUES(102,'20-MAR-24',150.00,2),
INSERT INTO order VALUES(103,'1-AUG-24',200.00,1),
INSERT INTO order VALUES(104,'25-JAN-24',50.00,3),
INSERT INTO order VALUES(105,'10-JUNE-24',300.00,4),
INSERT INTO order VALUES(106,'10-JUNE-24',300.00,5),
```

### **DISPLAY ORDER TABLE**

```
SELECT * FROM order;
```

### **QUERY FO FIND CUSTOMER WITH ORDERS ABOVE AVERAGE ORDER VALUE**

```
SELECT cid,cname
FROM customer
WHERE cid IN (
        SELECT DISTINCT cid,
        FROM order
        WHERE ovalue>(SELECT AVG(ovalue) FROM order)
);
```

### **CUSTOMER WITH ORDERS ABOVE AVERAGE ORDER VALUE**

```
SELECT c.cid, c.cname, o.oid, o.ovalue
FROM customer c
JOIN order o ON c.cid=o.cid
WHERE o.ovalue >(SELECT AVG(ovalue) FROM order);
```

### **CUSTOMER WITH ORDERS ABOVE AVERAGE ORDER VALUE**

```
SELECT c.cid, c.cname, o.oid, o.ovalue
FROM customer c
JOIN order o ON c.cid=o.cid
WHERE o.ovalue <=(SELECT AVG(ovalue) FROM order);
```

### **UNION**

```
SELECT c.cid, c.cname, o.oid, o.ovalue
FROM customer c
JOIN order o ON c.cid=o.cid
WHERE o.ovalue >(SELECT AVG(ovalue) FROM order)

UNION

SELECT c.cid, c.cname, o.oid, o.ovalue
FROM customer c
JOIN order o ON c.cid=o.cid
WHERE o.ovalue <=(SELECT AVG(ovalue) FROM order);
```

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```
insert into order1 values(105,'10-JUNE-24',300.00,4);
insert into order1 values(106,'10-JUNE-24',300.00,5);
select * from order1;
select cid,cname,o.oid,o.ovalue from customer c join order1 o on c.cid=o.cid where o.ovalue>(select avg(ovalue) from order1);
select c.cid,c.cname,o.oid,o.ovalue from customer c join order1 o on c.cid=o.cid where o.ovalue<=(select avg(ovalue) from order1);
select c.cid,c.cname,o.oid,o.ovalue from customer c join order1 o on c.cid=o.cid where o.ovalue=(select avg(ovalue) from order1) union
select c.cid,c.cname,o.oid,o.ovalue from customer c join order1 o on c.cid=o.cid where o.ovalue<=(select avg(ovalue) from order1);
```

Results Explain Describe Saved SQL History

CID	CNAME	OID	OVALUE
1	Deepika Nalk	101	100
1	Deepika Nalk	103	200
2	Kiran Nalk	102	150
3	Priyanka	104	50
4	Ashwarya	105	300
5	Rahul	106	300

6 rows returned in 0.00 seconds SQL Express

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