

Assignment 09

1. Write a query that uses a subquery to obtain all orders for the customer named Cisneros. Assume you do not know his customer number (cnum).

Ans: select * from orders where cnum =(select cnum from customers where cname = 'Cisneros');

```
D4_PratikSatpute_62758>select * from orders where cnum =(select cnum from customers where
cname = 'Cisneros');
```

onum	amt	odate	cnum	snum
3001	18.69	1990-10-03	2008	1007
3006	1098.16	1990-10-03	2008	1007

2 rows in set (0.01 sec)

2. Write a query that produces the names and ratings of all customers who have above average orders

Ans : Select c.cname as Customer_name , c.rating from customers c Inner join orders o ON c.cnum= o.cnum where o.amt > (select avg(amt) from orders)
Group by c.cname, c.rating ;

```
D4_PratikSatpute_62758>Select c.cname as Customer_name , c.rating from customers c Inner join orders o
ON c.cnum= o.cnum where o.amt > (select avg(amt) from orders) Group by c.cname, c.rating ;
```

Customer_name	rating
Liu	200
Clemens	100

2 rows in set (0.00 sec)

3. Write a query that selects the total amount in orders for each salesperson for whom this total is greater than the amount of the largest order in the table.

Ans: Select snum , sum(amt) from orders group by snum having sum(amt)>(select Max(amt) from orders);

```
D4_PratikSatpute_62758>Select snum , sum(amt) from orders group by snum
having sum(amt)>(select Max(amt) from orders);
```

snum	sum(amt)
1001	15382.07

4. Write a query that selects all customers whose ratings are equal to or greater than ANY of Serres'.

Ans: Select * from customers where rating >= ANY(select rating from customers where snum = ANY(select snum from salespeople where sname = 'Serres')) ;

```
D4_PratikSatpute_62758>Select * from customers where rating >= ANY(
select rating from customers where snum = ANY(select snum from sale
people where sname = 'Serres')) ;
```

cnum	cname	city	rating	snum
2002	Giovanni	Rome	200	1003
2003	Liu	San Jose	200	1002
2004	Grass	Berlin	300	1002
2008	Cisneros	San Jose	300	1007

4 rows in set (0.01 sec)

5. Write a query using ANY or ALL that will find all salespeople who have no customers located in their city.

Ans: Select * from salespeople where city != ALL(select city from customers);

```
D4_PratikSatpute_62758>Select * from salespeople where city != ALL(select
city from customers);
```

snum	sname	city	comm
1007	Rifkin	Barcelona	0.15
1003	Axelrod	New York	0.10

6. Write a query that selects all orders for amounts greater than any for the customers in London.

Ans: Select * from orders where amt > ANY(select amt from orders where cnum =ANY(select cnum from customers where city ='London'));

```
D4_PratikSatpute_62758>Select * from orders where amt > ANY(select
amt from orders where cnum =ANY(select cnum from customers where
city ='London'));
```

onum	amt	odate	cnum	snum
3002	1900.10	1990-10-03	2007	1004
3005	5160.45	1990-10-03	2003	1002
3006	1098.16	1990-10-03	2008	1007
3009	1713.23	1990-10-04	2002	1003
3008	4723.00	1990-10-04	2006	1001
3011	9891.88	1990-10-04	2006	1001

6 rows in set (0.00 sec)

7. Extract all the orders of Motika.

Ans: Select * from orders where snum = ALL(select snum from salespeople where sname='Motika');

```
D4_PratikSatpute_62758>Select * from orders where snum = ALL(select
snum from salespeople where sname='Motika');
```

onum	amt	odate	cnum	snum
3002	1900.10	1990-10-03	2007	1004

Select s.sname, o.onum, o.amt,o.odate, o.cnum,o.snum from salespeople s
inner join orders o ON s.snum = o.snum where o.snum = ALL(select snum from
salespeople where sname='Motika');

```
D4_PratikSatpute_62758>Select s.sname, o.onum, o.amt,o.odate, o.cnum,o.snum from salespeople
s inner join orders o ON s.snum = o.snum where o.snum = ALL(select snum from salespeople wher
e sname='Motika');
```

sname	onum	amt	odate	cnum	snum
Motika	3002	1900.10	1990-10-03	2007	1004

1 row in set (0.00 sec)

8. Find all the order attribute to salespeople servicing customers in London.

Ans: Select * from orders where snum = ALL(select snum from salespeople Where snum = ALL(select snum from customers where city ='London'));

```
D4_PratikSatpute_62758>Select * from orders where snum = ALL(select snum from salespeople Where snum = ALL(select snum from customers where city ='London'));
```

onum	amt	odate	cnum	snum
3003	767.19	1990-10-03	2001	1001
3008	4723.00	1990-10-04	2006	1001
3011	9891.88	1990-10-04	2006	1001

3 rows in set (0.00 sec)

Select * from orders where snum = ALL(select snum from customers where city ='London');

```
D4_PratikSatpute_62758>Select * from orders where snum = ALL(select snum from customers where city ='London');
```

onum	amt	odate	cnum	snum
3003	767.19	1990-10-03	2001	1001
3008	4723.00	1990-10-04	2006	1001
3011	9891.88	1990-10-04	2006	1001

9. Find names and numbers of all salesperson who have more than one customer

Ans: Select * from salespeople where snum= ANY(select snum from customers group by snum having count(snum)>=2);

```
D4_PratikSatpute_62758>Select * from salespeople where snum= ANY(select snum from customers group by snum having count(snum)>=2);
```

snum	sname	city	comm
1001	Peel	London	0.12
1002	Serres	San Jose	0.13

2 rows in set (0.00 sec)

10. Find salespeople number, name and city who have multiple customers

Ans: Select snum , sname, city from salespeople where snum = ANY(select snum from customers group by snum having count(snum)>1);

```
D4_PratikSatpute_62758>Select snum , sname, city from salespeople where snum =
ANY(select snum from customers group by snum having count(snum)>1 );
+-----+-----+-----+
| snum | sname | city   |
+-----+-----+-----+
| 1001 | Peel  | London |
| 1002 | Serres| San Jose |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

11. Select customers who have a greater rating than any other customer in Rome.

Ans: Select * from customers where rating = ANY(select rating from customers where city='Rome') AND city != 'Rome';

```
D4_PratikSatpute_62758>Select * from customers where rating = ANY(select rating
from customers where city='Rome') AND city != 'Rome';
+-----+-----+-----+-----+-----+
| cnum | cname  | city   | rating | snum |
+-----+-----+-----+-----+-----+
| 2001 | Hoffman| London | 100    | 1001 |
| 2003 | Liu    | San Jose | 200    | 1002 |
| 2006 | Clemens| London | 100    | 1001 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

12. Select all orders that had amounts that were greater than at least one of the orders from '1990-10-04'.

Ans:

Select * from orders where amt >ANY(select amt from orders where odate='1990-10-04');

```
D4_PratikSatpute_62758>Select * from orders where amt >ANY(select amt from orders
where odate='1990-10-04');
```

onum	amt	odate	cnum	snum
3003	767.19	1990-10-03	2001	1001
3002	1900.10	1990-10-03	2007	1004
3005	5160.45	1990-10-03	2003	1002
3006	1098.16	1990-10-03	2008	1007
3009	1713.23	1990-10-04	2002	1003
3008	4723.00	1990-10-04	2006	1001
3010	309.95	1990-10-04	2004	1002
3011	9891.88	1990-10-04	2006	1001

8 rows in set (0.00 sec)

Select * from orders where amt >(select min(amt) from orders where odate='1990-10-04');

```
D4_PratikSatpute_62758>Select * from orders where amt >(select min(amt) from
orders where odate='1990-10-04');
```

onum	amt	odate	cnum	snum
3003	767.19	1990-10-03	2001	1001
3002	1900.10	1990-10-03	2007	1004
3005	5160.45	1990-10-03	2003	1002
3006	1098.16	1990-10-03	2008	1007
3009	1713.23	1990-10-04	2002	1003
3008	4723.00	1990-10-04	2006	1001
3010	309.95	1990-10-04	2004	1002
3011	9891.88	1990-10-04	2006	1001

8 rows in set (0.00 sec)

13. Find all orders with amounts smaller than any amount for a customer in San Jose.

Ans: Select * from orders where snum < ANY(select snum from customers where city = 'San jose');

```
D4_PratikSatpute_62758>Select * from orders where snum < ANY(select snum from
customers where city = 'San jose');
```

onum	amt	odate	cnum	snum
3003	767.19	1990-10-03	2001	1001
3002	1900.10	1990-10-03	2007	1004
3005	5160.45	1990-10-03	2003	1002
3009	1713.23	1990-10-04	2002	1003
3007	75.75	1990-10-04	2004	1002
3008	4723.00	1990-10-04	2006	1001
3010	309.95	1990-10-04	2004	1002
3011	9891.88	1990-10-04	2006	1001

8 rows in set (0.00 sec)

14. Select those customers whose rating are higher than every customer in Paris.

Ans: Select * from customers where rating > ALL(select rating from customers where city = 'Paris');

```
D4_PratikSatpute_62758>Select * from customers where rating > ALL(select rating
from customers where city = 'Paris');
```

cnum	cname	city	rating	snum
2001	Hoffman	London	100	1001
2002	Giovanni	Rome	200	1003
2003	Liu	San Jose	200	1002
2004	Grass	Berlin	300	1002
2006	Clemens	London	100	1001
2008	Cisneros	San Jose	300	1007
2007	Pereira	Rome	100	1004

7 rows in set (0.00 sec)