

17CS2009 Database Systems Lab

Ex. No:5

Date:29/8/2019

Ex. No. 5 SUQUERIES AND CORRELATED SUBQUERIES

Aim

To demonstrate the usage of sub-queries and co-related sub-queries.

Description

Sub queries are basically used for fetching comined data from two or more different tables.

Questions:

Note: Make use of customer table, depositor table, branch table

1. List the names of customers having maximum deposit.[Use : IN operator]

```
SQL> select cname from deposit_cs076 where amount in (select max(amount) from deposit_cs076);
```

```
CNAME
-----
naren
```

2. List the name of customers having deposit in the customers living in Nagpur.[Use : IN operator]

```
SQL> select cname from deposit_cs076 where bname in (select bname from branch where city like 'nagpur');
```

```
CNAME
-----
sunil
```

3. Give the names of customers in Karolbagh branch having more deposit than any other customer in VIRAR branch.[Use: ANY operator]

```
SQL> select cname from deposit_cs076 where amount=any(select amount from deposit_cs076 where bname like 'virar');
```

```
CNAME
-----
shivani
```

4. List all the depositors living in city Nagpur [Use:IN operator]

```
SQL> select cname from customer where city in (select city from customer where city like 'nagpur');
```

```
CNAME
-----
madhuri
anil
pramod
```

5. List the branch cities of Anil and Sunil.[Use:IN operator]

```
SQL> select city from branch where bname in (select bname from deposit_cs076 where cname like 'anil' or cname like 'sunil');
```

```
CITY
-----
nagpur
```

6. Give the loanno, loan amount of borrowers having same branch as that of depositor Sunil.[Use: IN operator]

```
SQL> select loanno,amount from borrow where bname in (select bname from deposit_cs076 where cname like 'sunil');
no rows selected
```

7. Give the names of borrowers having loan amount greater than the loan amount of Anil.[Use:

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ALL operator]

```
SQL> select cname from borrow where amount>all(select amount from borrow where cname like 'anil');
```

```
CNAME
-----
kranti
sunil
mehul
pramod
```

8. List the names of customers whose deposit amount greater than 1000 and loan amount less than 10000. [Use:IN operator]

```
SQL> select cname from deposit_cs076 where amount>1000 and amount in (select amount from borrow where amount<10000);
```

```
CNAME
-----
kranti
```

9. List all the depositors having deposit in all branches where Sunil is having account.

```
SQL> select cname from deposit_cs076 where bname in (select bname from borrow_cs076 where cname like 'sunil');
```

no rows selected

10. List all the customers living in city Nagpur and having branch city Bombay or Delhi.

```
SQL> select cname from deposit_cs076 where cname in(select cname from customer_cs076 where city like 'nagpur') and bname in(select bname from branch_cs076 where city like 'bombay' or city like 'delhi');
```

```
CNAME
-----
madhuri
```

11. Display the details of the customers whose deposit amount is greater than their sum of borrow amount.

```
SQL> select d.actno,d.cname from deposit_cs076 d,borrow_cs076 b where d.amount > b.amount and b.cname=d.cname;
```

```
ACTNO CNAME
-----
101    anil
101    sunil
```

12. Display the customer details whose branch and the living city are the same.

```
SQL> select distinct customer_cs076.cname from customer_cs076,branch_cs076 where branch_cs076.city=customer_cs076.city;
```

```
CNAME
-----
madhuri
sunil
```