

PRACTICAL NO-9

AIM: TO SOLVE QUERIES USING THE CONCEPT OF SUB QUERY.

Query statement1: Write a query to display the last name and hire date of any employee in the same department as SCOTT. Exclude SCOTT.

- Query : SELECT LNAME, HIREDATE FROM EMPLOYEE_18007 WHERE DEPT_NO=(SELECT DEPT_NO FROM EMPLOYEE_18007 WHERE EMP_NAME='SCOTT') AND EMP_NAME!='SCOTT';

```
SQL> SELECT LNAME, HIREDATE FROM EMPLOYEE_18007 WHERE DEPT_NO=(SELECT DEPT_NO FROM EMPLOYEE_18007 WHERE EMP_NAME='SCOTT') AND EMP_NAME!='SCOTT';
```

```
no rows selected
```

Query statement 2: Give name of customers who are depositors having same branch city of mr. sunil.

- Query : SELECT CNAME FROM DEPOSIT_18007 D, BRANCH_18007 B WHERE D.BNAME=B.BNAME AND B.CITY=(SELECT B.CITY FROM BRANCH_18007 B , DEPOSIT_18007 D WHERE B.BNAME=D.BNAME AND D.CNAME='SUNIL');

```
SQL> SELECT CNAME FROM DEPOSIT_18007 D, BRANCH_18007 B WHERE D.BNAME=B.BNAME AND B.CITY=(SELECT B.CITY FROM BRANCH_18007 B , DEPOSIT_18007 D WHERE B.BNAME=D.BNAME AND D.CNAME='SUNIL');
```

```
CNAME
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```

```
ANIL
```

```
SUNIL
```

Query statement 3: Give deposit details and loan details of customer in same city where pramod is living.

- Query :`SELECT distinct D1.ACTNO,D1.BNAME , D1.AMOUNT , D1.ADATE , B1.LOANNA , B1.BNAME , B1.AMOUNT FROM DEPOSIT_18007 D1 , BORROW_18007 B1 , CUSTOMERS_18007 C1 WHERE C1.CNAME = D1.CNAME AND D1.CNAME=B1.CNAME AND C1.CITY IN (SELECT C2.CITY FROM CUSTOMERS_18007 C2 WHERE C2.CNAME='PRAMOD');`

```
SQL> SELECT distinct D1.ACTNO,D1.BNAME , D1.AMOUNT , D1.ADATE , B1.LOANNA , B1.BNAME , B1.AMOUNT FROM DEPOSIT_18007 D1 , BORROW_18007 B1 , CUSTOMERS_18007 C1 WHERE C1.CNAME = D1.CNAME AND D1.CNAME=B1.CNAME AND C1.CITY IN (SELECT C2.CITY FROM CUSTOMERS_18007 C2 WHERE C2.CNAME='PRAMOD');
```

ACTNO	BNAME	AMOUNT	ADATE	LOANN	BNAME
105	M.G.ROAD	3000	27-MAR-95	375	VIRAR
104	CHANDI	1200	17-DEC-95	321	ANDHERI

Query statement 4: Create a query to display the employee numbers and last names of all employees who earn more than the average salary. Sort the results in ascending order of salary.

- Query :`Select emp_no, emp_name from Employee_18007 where emp_sal > (select Avg(emp_sal) from Employee_18007) ORDER BY emp_sal;`

```
SQL> Select emp_no, emp_name from Employee_18007 where emp_sal > (select Avg(emp_sal) from Employee_18007) ORDER BY emp_sal;
```

EMP_NO	EMP_NAME
106	Sneha
107	Anamika
104	Aman
105	Anita

Query statement 5: Give names of depositors having same living city as mr. anil and having deposit amount greater than 2000.

- Query :SELECT D.CNAME FROM DEPOSIT1_18007 D , CUSTOMERS_18007 C WHERE D.CNAME=C.CNAME AND C.CITY=(SELECT CITY FROM DEPOSIT1_18007,CUSTOMERS_18007 WHERE D.CNAME=C.CNAME AND D.CNAME='ANIL') AND D.AMOUNT>2000;

```
SQL> SELECT D.CNAME FROM DEPOSIT1_18007 D , CUSTOMERS_18007 C WHERE D.CNAME=C.CNAME AND C.CITY=(SELECT CITY FROM DEPOSIT1_18007,CUSTOMERS_18007 WHERE D.CNAME=C.CNAME AND D.CNAME='ANIL') AND D.AMOUNT>2000;

no rows selected
```

Query statement 6: Display the last name and salary of every employee who reports to ford.

- Query :SELECT LNAME,EMP_SAL FROM EMPLOYEE_18007 WHERE MGR_NAME='FORD';

```
SQL> SELECT LNAME,EMP_SAL FROM EMPLOYEE_18007 WHERE MGR_NAME='FORD';  
  
no rows selected
```

Query statement 7: Display the department number, name, and job for every employee in the Accounting department.

- Query : SELECT D.DEPT_NO, D.DEPT_NAME, J.JOB_TITLE FROM DEPARTMENT_18007 D, JOB_18007 J WHERE D.JOB_ID=J.JOB_ID AND J.JOB_TITLE='ACCOUNT';

```
SQL> SELECT D.DEPT_NO, D.DEPT_NAME, J.JOB_TITLE FROM DEPARTMENT_18007 D, JOB_18007 J WHERE D.JOB_ID=J.JOB_ID AND J.JOB_TITLE='ACCOUNT';  
  
no rows selected
```

Query statement 8 : List the name of branch having highest number of depositors.

- Query : SELECT BNAME FROM DEPOSIT_18007 HAVING COUNT(BNAME)=(SELECT MAX(COUNT(BNAME)) FROM DEPOSIT_18007 GROUP BY BNAME) GROUP BY BNAME;

```
SQL> SELECT BNAME FROM DEPOSIT_18007 HAVING COUNT(BNAME)=(SELECT MAX(COUNT(BNAME)) FROM DEPOSIT_18007 G  
ROUP BY BNAME) GROUP BY BNAME;
```

```
BNAME  
-----  
CHANDI  
M.G.ROAD  
ANDHERI  
VIRAR  
NEHRU PLACE  
VRCE  
AJNI  
KAROLBAGH  
POWAI
```

Query statement 9 : Give the name of cities where in which the maximum numbers of branches are located.

- Query : SELECT CITY FROM BRANCH_18007 HAVING COUNT(CITY)=(SELECT MAX(COUNT(CITY)) FROM DEPOSIT_18007 GROUP BY CITY) GROUP BY CITY;

```
SQL> SELECT CITY FROM BRANCH_18007 HAVING COUNT(CITY)=(SELECT MAX(COUNT(CITY)) FROM DEPOSIT_18007 GROUP  
BY CITY) GROUP BY CITY;
```

```
CITY  
-----  
BOMBAY  
DELHI  
BANGLORE  
NAGPUR
```

Query statement 10 :Give name of customers living in same city where maximum depositors are located.

- Query: SELECT C1.CNAME FROM CUSTOMERS_18007 C1 WHERE C1.CITY IN (SELECT C2.CITY FROM DEPOSIT_18007 D1, CUSTOMERS_18007 C2 WHERE C2.CNAME = D1.CNAME GROUP BY C2.CITY HAVING COUNT(D1.CNAME) > ALL (SELECT COUNT(D2.CNAME) FROM DEPOSIT_18007 D2 CUSTOMERS_18007 C3 WHERE D2.CNAME = C3.CNAME GROUP BY C3.CITY)) ;

```
SQL> SELECT C1.CNAME FROM CUSTOMERS_18007 C1 WHERE C1.CITY IN (SELECT C2.CITY FROM DEPOSIT_18007 D1, CUSTOMERS_18007 C2 WHERE C2.CNAME = D1.CNAME GROUP BY C2.CITY HAVING COUNT(D1.CNAME) > ALL (SELECT COUNT(D2.CNAME) FROM DEPOSIT_18007 D2 , CUSTOMERS_18007 C3 WHERE D2.CNAME = C3.CNAME GROUP BY C3.CITY )) ;
```

```
no rows selected
```