

PRACTICAL-7

AIM : To solve queries using the concept of sub query.

Employee2 :

emp_n	emp_name	emp_sal	emp_comm	dept_no	hire_date
101	Smith	800		20	17-sep-03
102	Snehal	1600	300	25	01-jun-02
103	Adama	1100	0	20	23-sep-99
104	Aman	3000		15	11-jan-01
105	Anita	5000	50000	10	15-feb-02
106	Sneha	2450	24500	10	17-mar-02
107	Anamika	2975		30	19-nov-03

Employee2 :

```
CREATE TABLE EMPLOYEE2(emp_n NUMBER(3),emp_name VARCHAR2(30),emp_sal
NUMBER(8),emp_comm NUMBER(7),dept_no NUMBER(3),hire_date DATE);
```

```
INSERT INTO EMPLOYEE2 VALUES(101,'Smith',800,NULL,20,'17-sep-03');
```

```
INSERT INTO EMPLOYEE2 VALUES(102,'Snehal',1600,300,25,'01-jun-02');
```

```
INSERT INTO EMPLOYEE2 VALUES(103,'Adama',1100,0,20,'23-sep-99');
```

```
INSERT INTO EMPLOYEE2 VALUES(104,'Aman',3000,NULL,15,'11-jan-01');
```

```
INSERT INTO EMPLOYEE2 VALUES(105,'Anita',5000,50000,10,'15-feb-02');
```

```
INSERT INTO EMPLOYEE2 VALUES(106,'Sneha',2450,24500,10,'17-mar-02');
```

```
INSERT INTO EMPLOYEE2 VALUES(107,'Anamika',2975,NULL,30,'19-nov-03');
```

Perform the following queries:

1. Write a query to display the name and the hire date of any employee in the same department as SNEHA. Exclude SNEHA.

```
SQL> SELECT EMP_NAME,HIRE_DATE FROM EMPLOYEE2 WHERE DEPT_NO IN(SELECT DEPT_NO FROM
EMPLOYEE2 WHERE EMP_NAME LIKE 'Sneha')AND EMP_NAME!='Sneha';
```

EMP_NAME	HIRE_DATE
-----	-----
Anita	15-FEB-02

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

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

CNAME

ANIL
SUNIL

3. Give deposit details and loan details of customers in same city where pramod is living.

```
SQL> SELECT B.LOANNO,B.AMOUNT,B.BNAME,D.AMOUNT,D.ACTNO,D.BNAME FROM BORROW B,DEPOSIT
D,CUSTOMERS C WHERE (C.CNAME=B.CNAME AND B.CNAME=D.CNAME AND C.CITY = (SELECT CITY
FROM CUSTOMERS WHERE CNAME = 'PRMOD'));
```

LOANN	AMOUNT	BNAME	AMOUNT	ACTNO	BNAME
-----	-----	-----	-----	-----	-----
321	2000	ANDHERI	1200	104	CHANDI
375	8000	VIRAR	3000	105	M.G.ROAD

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

```
SQL> SELECT EMP_N,EMP_NAME,EMP_SAL FROM EMPLOYEE WHERE EMP_SAL>(SELECT AVG(EMP_SAL)
FROM EMPLOYEE ) ORDER BY EMP_SAL;
```

EMP_N	EMP_NAME	EMP_SAL
-----	-----	-----
106	Sneha	2450
107	Anamika	2975
104	Aman	3000
105	Anita	5000

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

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

no rows selected
```

6. Display the last name and salary of every employee who reports to HIREN.

```
SQL> SELECT EMP_NAME,EMP_SAL FROM EMPLOYEE2 WHERE EMP_N IN (SELECT EMP_NO FROM EMPLOYEE2 WHERE MNG_NAME='HIREN');

EMP_NAME          EMP_SAL
-----
Anita              5000
```

7. Display the department number and name for every employee in the COMPUTER department.

```
SQL> SELECT DEPT_NO,EMP_NAME FROM EMPLOYEE2 WHERE DEPT_NO IN(SELECT DEPT_NO FROM DEPARTMENT WHERE DEPT_NAME = 'COMPUTER');

DEPT_NO EMP_NAME
-----
10 Sneha
10 Anita
```

8. List the name of the branch having highest number of depositor.

```
SQL> SELECT BNAME FROM DEPOSIT1 GROUP BY BNAME HAVING COUNT(BNAME)>=ALL (SELECT COUNT(CNAME) FROM DEPOSIT1 GROUP BY BNAME);

BNAME
-----
Andheri
```

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

```
SQL> SELECT CITY FROM BRANCH GROUP BY CITY HAVING COUNT(BNAME)>=ALL(SELECT COUNT(BNAME) FROM BRANCH GROUP BY CITY);

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

10. Give name of the customers living in same city where maximum depositors are located.

```
SQL> SELECT CNAME FROM CUSTOMERS WHERE CITY IN(SELECT C.CITY FROM DEPOSIT D,CUSTOMERS C WHERE D.CNAME=C.CNAME GROUP BY C
.CITY HAVING COUNT(D.CNAME)>=ALL(SELECT COUNT(D.CNAME)FROM DEPOSIT D,CUSTOMERS C WHERE D.CNAME=C.CNAME GROUP BY C.CITY))
;

CNAME
-----
PRMOD
MADHURI
MEHUL
SUNIL
NAREN
KRANTI
SHIVANI

7 rows selected.
```