Practical - 5

AIM: Displaying data from multiple tables(join).

Create the following tables and insert the data as following.

DEPT:

DEPT_NO	DEPT_NAME	DEPT_CITY
10	COMPUTER	PUNE
15	IT	BANGALORE
20	CIVIL	RAJKOT
25	MECH	MANDVI
30	ELECTRICAL	AHMEDABAD

EMPLOYEE_MANAGER:

EMP_NO	EMP_HIREDATE	MNG_NO	MNG_NAME
101	01-JAN-1991	1	ASHOK
102	10-AUG-1995	2	VISHAL
103	18-JUN-1999	3	HIRAL
104	21-JUL-2002	4	VIVEK
105	25-DEC-2008	5	HIREN

```
CREATE TABLE DEPT(DEPT_NO VARCHAR2(5),DEPT_NAME VARCHAR2(20),

DEPT_CITY VARCHAR2(15));

INSERT INTO DEPT VALUES('10','COMPUTER','PUNE');

INSERT INTO DEPT VALUES('15','IT','BANGLORE');

INSERT INTO DEPT VALUES('20','CIVIL','RAJKOT');

INSERT INTO DEPT VALUES('25','MECH','MANDVI');

INSERT INTO DEPT VALUES('30','ELECTRICAL','AHMEDABAD');
```

```
SQL> @ D:\DBMS\Dept.sql

Table created.


1 row created.


1 row created.


1 row created.


1 row created.


1 row created.

SQL>
```

CREATE TABLE EMPLOYEE_MANAGER(EMP_NO NUMBER(4),EMP_HIREDATE DATE,

MNG_NO NUMBER(4),MNG_NAME VARCHAR2(25));

INSERT INTO EMPLOYEE_MANAGER VALUES('101','01-JAN-1991','1','ASHOK');

INSERT INTO EMPLOYEE_MANAGER VALUES('102','10-AUG-1995','2','VIMAL');

INSERT INTO EMPLOYEE_MANAGER VALUES('103','18-JUN-1999','3','HIRAL');

INSERT INTO EMPLOYEE_MANAGER VALUES('104','21-JUL-2002','4','VIVEK');

INSERT INTO EMPLOYEE_MANAGER VALUES('105','25-DEC-1008','5','HIREN');

```
SQL> @ D:\DBMS\Employee_Manager.sql

Table created.


1 row created.


1 row created.


1 row created.


1 row created.


1 row created.

SQL>
```

The Queries performed from the given tables are:

1. Give details of customers ANIL.

```
SQL> SELECT D.CNAME,D.ACTNO,D.BNAME,D.AMOUNT,C.CITY FROM DEPOSIT D,CUSTOMERS C W
HERE C.CNAME=D.CNAME AND D.CNAME='ANIL';

CNAME           ACTNO BNAME                AMOUNT CITY
--------------- ----- ---------------- ---------- ----------
ANIL            100   VRCE                 1000 CALCUTTA

SQL>
```

2. Give name of customer who are borrowers and depositors and having living city Nagpur.

```
SQL> SELECT C.CNAME FROM DEPOSIT D,CUSTOMERS C,BORROW B WHERE C.CNAME=D.CNAME AN
D D.CNAME=B.CNAME AND C.CITY='NAGPUR';

CNAME
----------
MADHURI

SQL>
```

3. Give city as their city name of customers having same living branch.

```
SQL> SELECT C.CITY,D.CNAME FROM DEPOSIT D,BRANCH B,CUSTOMERS C WHERE D.BNAME=B.B
NAME AND C.CNAME=D.CNAME AND C.CITY=B.CITY;

CITY            CNAME
--------------- ----------
BOMBAY          SHIVANI
```

4. Write a query to display the emp name, dept numbers, and dept name for all employees.

```
SQL> SELECT E.EMP_NAME,D.DEPT_NO,D.DEPT_NAME FROM EMPLOYEE E,DEPT D WHERE E.DEPT
_NO=D.DEPT_NO;

EMP_NAME            DEPT_NO DEPT_NAME
---------- ---------- ----------
Smith               10 COMPUTER
Snehal              25 MECH
Dhruv               20 CIVIL
Aman                10 COMPUTER
Anita               10 COMPUTER
Sneha               10 COMPUTER
Anamika             10 COMPUTER

7 rows selected.
```

5. Create a unique listing of all jobs that are in department 30. Include the location of the department in output.

```
SQL> select distinct e.job,d.dept_city from employee1 e,dept d where e.dept_no=d.dept_no and d.dept_no=30;

JOB             DEPT_CITY
--------------- ---------------
Salesman        AHMEDABAD
Clerk           AHMEDABAD
Manager         AHMEDABAD
```

6. Write a query to display the employee name, dept number, and dept name for all employees who work in RAJKOT.

```
SQL> SELECT E.F_NAME,D.DEPT_NO,D.DEPT_NAME FROM EMPLOYEE1 E,DEPT D WHERE E.DEPT_
NO=D.DEPT_NO AND D.DEPT_CITY='RAJKOT';

F_NAME               DEPT_NO DEPT_NAME
-------------------- ---------- ----------
Smith                        20 CIVIL
Jones                        20 CIVIL
Scott                        20 CIVIL
Adams                        20 CIVIL
Ford                         20 CIVIL
```

7. Display the employee last name and employee number along with their manager's last name and manager number. Label the column employee, emp#, manager and mgr#, respectively.

```
SQL> SELECT E.EMP_NAME AS "EMPLOYEE",E.EMP_NO AS "EMP##",M.MNG_NAME AS "MANAGER"
,M.MNG_NO AS "MGR#" FROM EMPLOYEE E,EMPLOYEE_MANAGER M WHERE E.EMP_NO=M.EMP_NO;

EMPLOYEE             EMP## MANAGER              MGR#
-------------------- ----- ---------- ----------
Smith                101   ASHOK               1
Snehal               102   VIMAL               2
Dhruv                103   HIRAL               3
Aman                 104   VIVEK               4
Anita                105   HIREN               5
```

8. Create a query to display the name and hire date of any employee hired after employee SMITH.

```
SQL> SELECT F_NAME,HIRE_DATE FROM EMPLOYEE1 WHERE HIRE_DATE>(SELECT HIRE_DATE FR
OM EMPLOYEE1 WHERE F_NAME='Smith');

F_NAME               HIRE_DATE
-------------------- ---------
Allen                20-FEB-81
Ward                 22-FEB-81
Jones                02-APR-81
Martin               28-SEP-81
Blake                01-MAY-81
Clark                09-JUN-81
Scott                09-DEC-82
King                 17-NOV-81
Turner               08-SEP-81
Adams                12-JAN-83
James                03-DEC-81

F_NAME               HIRE_DATE
-------------------- ---------
Ford                 03-JAN-81
Miller               23-JAN-82

13 rows selected.
```