

## DBMS LAB REPORT

***Lab Number : 06***

***Date : 17 March, 2022***

***Name of the student : Ashish Kumar Mishra***

***Roll Number : 20051685***

***Branch : Computer Science and Engineering***

***Section : CSE -10***

## Part A (Last Class Table Questions):

### Employee Table :

```
SQL> SELECT * FROM EMPLOYEE;
```

EMP_NO	EMP_NAME	JOB	MANAGER_ID	DEPT_NO
1234	RAMESH	SALESMAN	1001	20
1349	HARISH	SALESMAN	1001	20
1738	RAHUL	OPERATOR	1001	20
1625	RAMESH	SECURITY	1002	30
1273	RAKESH	OPERATOR	1002	30
1725	RAVI	SECURITY	1003	25
1024	MANISH	SALESMAN	1003	25
1579	KAPIL	CLEANER	1004	
1699	RAJ	CLEANER	1005	

```
9 rows selected.
```

### Manager Table :

```
SQL> SELECT * FROM MANAGER;
```

MAN_ID	MAN_NAME	HIGHES	INSTI	DEPT_ID
1001	NAVEEN	MBA	IITMA	20
1002	KRISHNA	MBA	IITMK	25
1003	KAMAL	MTECH	IITB	30
1004	MAHESH	PHD	IISC	25
1005	RAMESH	PHD	IISC	21
1006	RAVI	PHD	IITK	21
1007	RAHUL	MBA	IIMB	24

```
7 rows selected.
```

## Department Table :

```
SQL> SELECT * FROM DEPARTMENT;
```

DID	DNAME	STRENGTH	AVG_SALARY	C
20	SALES	100	12000	x
21	SECURITY	20	10000	y
22	PRODUCTION	25	15000	z
23	MARKETING	30	16000	x
24	OPERATION	15	15500	z
25	STAGING	10	20000	z
26	HR	10	15000	y
27	ICT	8	20000	y
30	EXTERNAL AFFAIRS	5	30000	y

9 rows selected.

1. Find the manager name of dept 20.

```
SQL> select man_name from manager where dept_id=20;
```

MAN_NAME
NAVEEN

2. Find the highest qualification of the manager of dept 25.

```
SQL> select highest_qualification from manager where dept_id=25;
```

HIGHES
MBA
PHD

3. What is the category of the department whose manager is Naveen.

```
SQL> SELECT DEPARTMENT.CATEGORY FROM DEPARTMENT INNER JOIN MANAGER ON MANAGER.DEPT_ID=DEPARTMENT.DID WHERE MAN_NAME='NAVEEN';  
C  
-  
X
```

4. What is the avg salary of the department where Ravi is working.

```
SQL> SELECT DEPARTMENT.AVG_SALARY FROM DEPARTMENT INNER JOIN MANAGER ON MANAGER.DEPT_ID=DEPARTMENT.DID WHERE MAN_NAME='RAVI';  
AVG_SALARY  
-----  
10000
```

5. List the employee details who are working under a manager passed out from IISC.

```
SQL> SELECT EMPLOYEE.EMP_NO,EMPLOYEE.EMP_NAME FROM EMPLOYEE INNER JOIN MANAGER ON MANAGER.MAN_ID=EMPLOYEE.MANAGER_ID WHERE MANAGER.INSTITUTION='IISC';  
EMP_NO EMP_NAME  
-----  
1579 KAPIL  
1699 RAJ
```

6. Name of the manager whose department strength is maximum.

```
SQL> SELECT MAN_NAME FROM MANAGER INNER JOIN DEPARTMENT ON MANAGER.DEPT_ID=DEPARTMENT.DID WHERE DEPARTMENT.STRENGTH = (SELECT MAX(STRENGTH) FROM DEPARTMENT);  
MAN_NAME  
-----  
NAVEEN
```

7. List down the manager details who are managing category Y departmentants.

```
SQL> SELECT MAN_ID,MAN_NAME FROM MANAGER INNER JOIN DEPARTMENT ON MANAGER.DEPT_ID = DEPARTMENT.DID WHERE DEPARTMENT.CATEGORY='Y';
```

MAN_ID	MAN_NAME
1003	KAMAL
1005	RAMESH
1006	RAVI

8. How many employees are working under Naveen.

```
SQL> SELECT EMP_NO,EMP_NAME FROM EMPLOYEE INNER JOIN MANAGER ON EMPLOYEE.MANAGER_ID=MANAGER.MAN_ID WHERE MANAGER.MAN_NAME='NAVEEN';
```

EMP_NO	EMP_NAME
1234	RAMESH
1349	HARISH
1738	RAHUL

9. List down the employees who doesn't belong to any department as of now.

```
SQL> SELECT * FROM EMPLOYEE WHERE DEPT_NO IS NULL;
```

EMP_NO	EMP_NAME	JOB	MANAGER_ID	DEPT_NO
1579	KAPIL	CLEANER	1004	
1699	RAJ	CLEANER	1005	

10. List down the employees who are working under production department.

```
SQL> SELECT * FROM EMPLOYEE INNER JOIN DEPARTMENT ON EMPLOYEE.DEPT_NO = DEPARTMENT.DID WHERE DEPARTMENT.DNAME='Production';
```

no rows selected

```
SQL>
```