

CSE2007 - DBMS

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LAB 6

EMPLOYEE Table:

EMP_ID	EMP_NAME	DESIGNATION	MANAGER_ID	DOJ	DEPT_ID	SALARY	GENDER
1008	Kiran	Principal		1978-02-01	DEPT_1004	99000.00	M
1001	Akash	Salesman	1008	1991-07-15	DEPT_1003	35000.00	M
1002	Rishabh	Manager	1008	1992-05-23	DEPT_1001	65000.00	M
1004	Ridhi	Manager	1008	1987-11-22	DEPT_1001	85000.00	F
1003	Rihan	Analyst	1004	1991-07-15	DEPT_1001	55000.00	M
1007	Seema	Manager	1008	1991-07-15	DEPT_1001	65000.00	F
1005	Sajal	Salesman	1007	1991-07-15	DEPT_1003	35000.00	M
1006	Biki	Salesman	1002	1999-11-26	DEPT_1003	25000.00	F

DEPARTMENT Table:

DEPT_NUM	DEPT_NAME	DEPT_LOCATION	Phn_Num
DEPT_1001	Human Resource	Delhi	1111
DEPT_1002	Production	Kolkata	2222
DEPT_1003	Marketing	Kerala	3333
DEPT_1004	Audit	Noida	4444
DEPT_1005	Finance	Andhra Pradesh	5555

PROJECT Table:

Pno	Pname	Budget	City
P001	HealthCare	750000	Kolkata
P002	ComputerVision	1000000	Delhi
P003	NetworkSecurity	9500000	Chennai
P004	Forensic	1200000	Guwahati
P005	Security	1500000	Hyderabad

Works Table:

Eno	Pno	Duration
1001	P001	6
1002	P001	6
1003	P001	6
1005	P002	9
1006	P002	9
1007	P002	9
1004	P003	5
1008	P003	5

Execute the following queries:

1. List the managers whose salary is less than the average salary of all managers.

```
mysql> select EMP_NAME from EMPLOYEE where SALARY<(select AVG(SALARY) from EMPLOYEE where DESIGNATION="Manager") and DESIGNATION="Manager";
+-----+
| EMP_NAME |
+-----+
| Rishabh  |
| Seema    |
+-----+
2 rows in set (0.00 sec)

mysql>
```

2. List all projects where the number of persons working on the project is more than 2.

```
mysql> select Pname from PROJECT inner join WORKS on PROJECT.Pno=WORKS.Pno group by WORKS.Pno having count(*)>2;
+-----+
| Pname |
+-----+
| HealthCare |
| ComputerVision |
+-----+
2 rows in set (0.04 sec)
```

3. Display employee id, employee name, DOJ and salary of employees working in a project whose budget is 10,00000.

```
mysql> select e.EMP_ID, e.EMP_NAME, e.DOJ, e.SALARY from EMPLOYEE e, PROJECT p, WORKS w where p.Budget=1000000 and p.Pno=w.Pno and w.Eno=e.EMP_ID;
+-----+-----+-----+-----+
| EMP_ID | EMP_NAME | DOJ       | SALARY |
+-----+-----+-----+-----+
| 1005   | Sajal    | 1991-07-15 | 35000  |
| 1006   | Bikki    | 1999-11-26 | 25000  |
| 1007   | Seema    | 1991-07-15 | 65000  |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

4. Display the project name with duration greater than 5 hours.

```
mysql> select Pname from PROJECT p, WORKS w where p.Pno=w.Pno and Duration>5;
+-----+
| Pname |
+-----+
| HealthCare |
| HealthCare |
| HealthCare |
| ComputerVision |
| ComputerVision |
| ComputerVision |
+-----+
6 rows in set (0.00 sec)
```

5. Display the name of an employee who is working in a project for more than 5 hours.

```
mysql> select EMP_NAME from EMPLOYEE e, WORKS w where w.Eno=e.EMP_ID and Duration>5;
+-----+
| EMP_NAME |
+-----+
| Akash    |
| Rishabh  |
| Rihan    |
| Sajal    |
| Bikki    |
| Seema    |
+-----+
6 rows in set (0.00 sec)
```

6. Create a new table "employee_details" from an Existing table "Employee" by using Subquery.

```
mysql> SELECT E.EMP_ID,E.EMP_NAME,E.DESIGNATION,E.DOJ,E.DEPT_ID,E.SALARY,E.GENDER as EMPLOYEE_DETAILS from EMPLOYEE E;
```

EMP_ID	EMP_NAME	DESIGNATION	DOJ	DEPT_ID	SALARY	EMPLOYEE_DETAILS
1001	Akash	Salesman	1991-07-15	DEPT_1003	35000	M
1002	Rishabh	Manager	1992-05-23	DEPT_1001	65000	M
1003	Rihan	Analyst	1991-07-15	DEPT_1001	55000	M
1004	Ridhi	Manager	1987-11-22	DEPT_1001	85000	F
1005	Sajal	Salesman	1991-07-15	DEPT_1003	35000	M
1006	Bikki	Salesman	1999-11-26	DEPT_1003	25000	F
1007	Seema	Manager	1991-07-15	DEPT_1001	65000	F
1008	Kiran	Principal	1978-02-01	DEPT_1004	99000	M

```
8 rows in set (0.00 sec)
```

7. Display department number and department name of the employees who were involved in the P002 project.

```
mysql> select DEPT_NUM, DEPT_NAME from DEPARTMENT D, WORKS W, EMPLOYEE E, PROJECT P where P.Pno=W.Pno and W.Eno=E.EMP_ID and E.DEPT_ID=DEPT_NUM;
```

DEPT_NUM	DEPT_NAME
DEPT_1003	Marketing
DEPT_1001	Human Resource
DEPT_1001	Human Resource
DEPT_1003	Marketing
DEPT_1003	Marketing
DEPT_1001	Human Resource
DEPT_1001	Human Resource
DEPT_1004	Audit

```
8 rows in set (0.00 sec)
```

8. Finds all salesmen whose salaries are greater than the minimum salary of all employees.

```
mysql> select EMP_NAME from EMPLOYEE where DESIGNATION="Salesman" and SALARY>(select avg(SALARY) from EMPLOYEE where DESIGNATION="Salesman");
```

EMP_NAME
Akash
Sajal

```
2 rows in set (0.00 sec)
```