Assignment-6

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**1. Display all empno,ename,deptno,sal,avg(sal),min(sal), max(sal).**

2. Write a query to display maximum salary, minimum salary and average sal along with emp name and deptno for all departments.

**3. Find sum of salary for all employees whose sal > 1000. Query should display ename,sal,Sum of** **salary, should be displayed according to the job.**

**4. Find number of clerks working in each department. Display ename,job and count of that job.**

5. Find how many employees are working under same manager display mgr and the count .

**6. Calculate how many employees earn sal greater than 1500 in each dept. Query should display ename, sal, count of employees earning sal >1500.**

**7.Calculate the difference between max salary and minimum salary for depatno 20.  Query should display ename,sal, diff between max sal and employee's sal, diff between min sal and max sal of the dept.**

1.faculty(fid(PK),fname,sp.skill1,sp.skill2)

CREATE TABLE faculty(fid int primary key, fname varchar (20) not null,  sp\_skill1 varchar (30), sp\_skill2 varchar(30));

fid fname sp\_skill1 sp\_skill2

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10 Amol Database Java

11 Asha Java MySQL

12 Kiran CPP database

13 Seeta MySQL database

2. courses(cid(PK),cname,rid,fid(FK))

  CREATE TABLE Courses

( cid int primary key,

  cname varchar (15) not null  ,

  rid int,

    fid int,

    foreign key(rid) references room(rid) on delete set null,

  foreign key(fid) references faculty(fid) on delete set null

);

cid cname rid fid

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121 DBDA 100 101

31 DAC 101 null

141 DTISS null null

151 DOIT 105 12

3. room(roomid,rname,rloc)

 CREATE TABLE room

(rid int primary key,

 rname varchar(15) not null,

 rloc varchar(20)

);

rid rname rloc

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100 Jasmin 1st floor

101 Rose 2nd floor

105 Lotus 1st floor

103 Mogra 1st floor

**1. list all rooms which are allocated or not allocated to any courses.**

Expected Output

+---------+-------------+----------+------------+

|  rid      | rname     | cid       | cname   |

+---------+-------------+----------+------------+

| 100     | Jasmin  |  121     | DBDA   |

| 101     | Rose      |  131     | DAC     |

| 103     | Mogra  | NULL    | NULL     |

| 105     | Lotus       |  151     | DIOT    |

+---------+-------------+----------+------------+

4 rows in set (0.00 sec)

**2. list all rooms which are not allocated to any courses.**

**3. display courses and faculty assigned to those courses whose special skill is database.**

Expected Output

+-------+------------+-------+-----------+--------------+---------------+

| cid    | cname  | fid   | fname   | sp\_skill1   | sp\_skill2    |

+-------+-----------+-------+------------+--------------+----------------+

| 121  | DBDA    |  10  | Amol   | database |  JAVA         |

| 151   | DIOT    |  12   | Kiran    | CPP         |  Database |

+-------+-----------+--------+-----------+-------------+---------------+

2 rows in set (0.00 sec)