To Create the following database schema EMP-DEPT with all specified constraints and use it to answer the given queries.

**EMPLOYEE Schema**

Field Type NULL KEY DEFAULT

Eno Char(3) NO PRI NIL

Ename Varchar(50) NO NIL

Job\_type Varchar(50) NO NIL

SupervisionENO Char(3) Yes FK NIL

Hire\_date Date NO NIL

Dno Integer YES FK NIL

Commission Decimal(10,2) YES NIL

Salary Decimal (7,2) NO NIL

**DEPARTMENT Schema**

Dno Integer No PRI NULL

Dname Varchar (50) Yes NULL

Location Varchar(50) Yes New Delhi

**CREATING TABLES**

mysql> create table Department(

Dno int not null primary key,

Dname varchar(50),

Location varchar(50) default 'New Delhi');

Query OK, 0 rows affected (0.04 sec)

mysql> create table Employee(

Eno char(3) not null primary key,

Ename varchar(50) not null,

Job\_type varchar(50) not null,

Manager char(3),

Hire\_date date not null,

Dno int,

Commission decimal(10,2),

Salary decimal(7,2) not null,

foreign key (Dno) references Department(Dno),

foreign key (Manager) References Employee(Eno));

Query OK, 0 rows affected (0.07 sec)

**INSERTING DATA INTO TABLES**

**DEPARTMENT**

insert into department values(1,"Teacher","New York");

insert into department values(10,"Sales","Tokyo");

insert into department values(12,"Sales","Tokyo");

insert into department values(17,"IT","San Francisco");

insert into department values(19,"IT","San Francisco");

insert into department values(2,"Marketing","Meerut");

mysql> select \* from department;

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

| Dno | Dname | Location |

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

| 1 | Teacher | New Delhi |

| 2 | Marketing | Meerut |

| 10 | Sales | Tokyo |

| 12 | Sales | Tokyo |

| 17 | IT | San Francisco |

| 19 | IT | San Francisco |

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

6 rows in set (0.00 sec)

**EMPLOYEE**

insert into employee values("E01","Alex","Assistant manager","E01","2015-05-04",1,2000.10,20000);

insert into employee values("E02","Rakesh","Assistant manager","E02","2016-11-17",2,2500.10,30000);

insert into employee values("E03","Hritik","Assistant manager","E03","2012-09-17",10,2500.10,30000);

insert into employee values("E04","Akshay","Assistant manager","E04","2010-09-27",17,9500.10,90000);

insert into employee values("E05","Raj","Assistant manager","E05","2017-05-27",19,9590.10,90900);

insert into employee values("E06","Brijesh","HOD","E06","2014-09-17",1,8500.10,90000);

insert into employee values("E07","Satendra","HOD","E07","2009-02-14",1,8500.10,90000);

insert into employee values("E08","Sapna","HOD","E08","2015-02-24",1,8500.10,90000);

Insert Into employee Values("E09","Gopal","Marketing",NULL,"2017-02-11",2,3000.40,25000);

Insert Into employee Values("E10","Vishu","Marketing intern",NULL,"2020-12-21",2,NULL,1500);

Select \* from employee;

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

| Eno | Ename | Job\_type | Manager | Hire\_date | Dno | Commission | Salary |

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

| E01 | Alex | HOD | E01 | 2015-05-04 | 1 | 2000.10 | 20000.00 |

| E02 | Rakesh | Assistant manager | E02 | 2016-11-17 | 2 | 2500.10 | 30000.00 |

| E03 | Hritik | Assistant manager | E03 | 2012-09-17 | 10 | 2500.10 | 30000.00 |

| E04 | Akshay | Assistant manager | E04 | 2010-09-27 | 17 | 9500.10 | 90000.00 |

| E05 | Raj | Assistant manager | E05 | 2017-05-27 | 19 | 9590.10 | 90900.00 |

| E06 | Brijesh | HOD | E06 | 2014-09-17 | 1 | 8500.10 | 90000.00 |

| E07 | Satendra | HOD | E07 | 2009-02-14 | 1 | 8500.10 | 90000.00 |

| E08 | Sapna | HOD | E08 | 2015-02-24 | 1 | 8500.10 | 90000.00 |

| E09 | Gopal | Marketing | NULL | 2017-02-11 | 2 | 3000.40 | 25000.00 |

| E10 | Vishu | Marketing intern | NULL | 2020-12-21 | 2 | NULL | 1500.00 |

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

10 rows in set (0.00 sec)

*Query 1:*

*Query to display Employee Name, Job, Hire Date, Employee Number, for each employee with the Employee Number appearing first.*

*select Eno,Ename,Job\_type,Hire\_date from employee;*

*+-----+----------+-------------------+------------+*

*| Eno | Ename | Job\_type | Hire\_date |*

*+-----+----------+-------------------+------------+*

*| E01 | Alex | HOD | 2015-05-04 |*

*| E02 | Rakesh | Assistant manager | 2016-11-17 |*

*| E03 | Hritik | Assistant manager | 2012-09-17 |*

*| E04 | Akshay | Assistant manager | 2010-09-27 |*

*| E05 | Raj | Assistant manager | 2017-05-27 |*

*| E06 | Brijesh | HOD | 2014-09-17 |*

*| E07 | Satendra | HOD | 2009-02-14 |*

*| E08 | Sapna | HOD | 2015-02-24 |*

*+-----+----------+-------------------+------------+*

*8 rows in set (0.00 sec)*

*Query 2:*

*Query to display unique Jobs from the Employee Table.*

*select distinct Job\_type from employee;*

*+-------------------+*

*| Job\_type |*

*+-------------------+*

*| HOD |*

*| Assistant manager |*

*+-------------------+*

*2 rows in set (0.01 sec)*

*Query 3:*

*Query to display the Employee Name concatenated by a Job separated by a comma.*

*select concat(Ename,",",Job\_type) as employee\_nameANDjob from employee;*

*+--------------------------+*

*| employee\_nameANDjob |*

*+--------------------------+*

*| Alex,HOD |*

*| Rakesh,Assistant manager |*

*| Hritik,Assistant manager |*

*| Akshay,Assistant manager |*

*| Raj,Assistant manager |*

*| Brijesh,HOD |*

*| Satendra,HOD |*

*| Sapna,HOD |*

*+--------------------------+*

*8 rows in set (0.00 sec)*

*Query 4:*

*Query to display all the data from the Employee Table. Separate each Column by a comma and name the said column as THE\_OUTPUT.*

*select concat\_ws(",",Eno,Ename,Job\_type,Manager,Hire\_date,Dno,Commission,Salary) as THE\_OUTPUT from employee;*

*+-----------------------------------------------------------------+*

*| THE\_OUTPUT |*

*+-----------------------------------------------------------------+*

*| E01,Alex,HOD,E01,2015-05-04,1,2000.10,20000.00 |*

*| E02,Rakesh,Assistant manager,E02,2016-11-17,2,2500.10,30000.00 |*

*| E03,Hritik,Assistant manager,E03,2012-09-17,10,2500.10,30000.00 |*

*| E04,Akshay,Assistant manager,E04,2010-09-27,17,9500.10,90000.00 |*

*| E05,Raj,Assistant manager,E05,2017-05-27,19,9590.10,90900.00 |*

*| E06,Brijesh,HOD,E06,2014-09-17,1,8500.10,90000.00 |*

*| E07,Satendra,HOD,E07,2009-02-14,1,8500.10,90000.00 |*

*| E08,Sapna,HOD,E08,2015-02-24,1,8500.10,90000.00 |*

*+-----------------------------------------------------------------+*

*8 rows in set (0.00 sec)*

*Query 5:*

*Query to display the Employee Name and Salary of all the employees earning more than $2850.*

*select Ename,Salary from employee where (Salary+Commission>2850);*

*+----------+----------+*

*| Ename | Salary |*

*+----------+----------+*

*| Alex | 20000.00 |*

*| Rakesh | 30000.00 |*

*| Hritik | 30000.00 |*

*| Akshay | 90000.00 |*

*| Raj | 90900.00 |*

*| Brijesh | 90000.00 |*

*| Satendra | 90000.00 |*

*| Sapna | 90000.00 |*

*+----------+----------+*

*8 rows in set (0.00 sec)*

*Query 6:*

*Query to display Employee Name and Department Number for the Employee No=E07.*

*select Ename,Dno from employee where (Eno="E07");*

*+----------+------+*

*| Ename | Dno |*

*+----------+------+*

*| Satendra | 1 |*

*+----------+------+*

*1 row in set (0.00 sec)*

*Query 7:*

*Query to display Employee Name and Salary for all employees whose salary is not in the range of $1500 and $2850.*

*select Ename,Salary from employee where (Salary<1500 or Salary>2850);*

*+----------+----------+*

*| Ename | Salary |*

*+----------+----------+*

*| Alex | 20000.00 |*

*| Rakesh | 30000.00 |*

*| Hritik | 30000.00 |*

*| Akshay | 90000.00 |*

*| Raj | 90900.00 |*

*| Brijesh | 90000.00 |*

*| Satendra | 90000.00 |*

*| Sapna | 90000.00 |*

*+----------+----------+*

*8 rows in set (0.00 sec)*

*Query 8:*

*Query to display Employee Name and Department No. of all the employees in Dept 10 and Dept 30 in the alphabetical order by name.*

*Select Ename,Dno from employee where Dno=10 or Dno=30 order by Ename;*

*+--------+------+*

*| Ename | Dno |*

*+--------+------+*

*| Hritik | 10 |*

*+--------+------+*

*1 row in set (0.00 sec)*

*Query 9:*

*Query to display Name and Hire Date of every Employee who was hired in 1981.*

*SELECT Ename,Hire\_date from employee where Hire\_date="1981-01-01" AND Hire\_date="1981-12-31";*

*Empty set (0.00 sec)*

*Query 10:*

*Query to display the Name and Job of all employees who don’t have a current Manager.*

*Select Ename,Job\_type from employee where Manager is null;*

*Empty set (0.00 sec)*

*Query 11:*

*Query to display the Name, Salary and Commission for all the employees who earn commission.*

*SELECT Ename,Salary,Commission FROM employee WHERE Commission is not NULL;*

*+----------+----------+------------+*

*| Ename | Salary | Commission |*

*+----------+----------+------------+*

*| Alex | 20000.00 | 2000.10 |*

*| Rakesh | 30000.00 | 2500.10 |*

*| Hritik | 30000.00 | 2500.10 |*

*| Akshay | 90000.00 | 9500.10 |*

*| Raj | 90900.00 | 9590.10 |*

*| Brijesh | 90000.00 | 8500.10 |*

*| Satendra | 90000.00 | 8500.10 |*

*| Sapna | 90000.00 | 8500.10 |*

*+----------+----------+------------+*

*8 rows in set (0.00 sec)*

*Query 12:*

*Sort the data in descending order of Salary and Commission.*

*select \*from employee order by Salary DESC,Commission DESC;*

*+-----+----------+-------------------+---------+------------+------+------------+----------+*

*| Eno | Ename | Job\_type | Manager | Hire\_date | Dno | Commission | Salary |*

*+-----+----------+-------------------+---------+------------+------+------------+----------+*

*| E05 | Raj | Assistant manager | E05 | 2017-05-27 | 19 | 9590.10 | 90900.00 |*

*| E04 | Akshay | Assistant manager | E04 | 2010-09-27 | 17 | 9500.10 | 90000.00 |*

*| E06 | Brijesh | HOD | E06 | 2014-09-17 | 1 | 8500.10 | 90000.00 |*

*| E07 | Satendra | HOD | E07 | 2009-02-14 | 1 | 8500.10 | 90000.00 |*

*| E08 | Sapna | HOD | E08 | 2015-02-24 | 1 | 8500.10 | 90000.00 |*

*| E02 | Rakesh | Assistant manager | E02 | 2016-11-17 | 2 | 2500.10 | 30000.00 |*

*| E03 | Hritik | Assistant manager | E03 | 2012-09-17 | 10 | 2500.10 | 30000.00 |*

*| E01 | Alex | HOD | E01 | 2015-05-04 | 1 | 2000.10 | 20000.00 |*

*+-----+----------+-------------------+---------+------------+------+------------+----------+*

*8 rows in set (0.00 sec)*

*Query 13:*

*Query to display Name of all the employees where the third letter of their name is ‘A’.*

*SELECT Ename FROM employee WHERE Ename like "\_\_a%";*

*Empty set (0.00 sec)*

*Query 14:*

*Query to display Name of all employees either have two ‘R’s or have two ‘A’s in their name and are either in Dept No = 30 or their Manager’s Employee No = 7788.*

*SELECT Ename FROM employee WHERE (Ename LIKE "%a%a%" OR Ename LIKE "%r%r%") AND (Dno=30 OR Manager=7788);*

*Empty set, 3 warnings (0.00 sec)*

*Query 15:*

*Query to display Name, Salary and Commission for all employees whose Commission amount is 14 greater than their Salary increased by 5%.*

*SELECT Ename,Salary,Commission FROM employee WHERE Commission+Salary-14=Salary\*1.05;*

*Empty set (0.00 sec)*

*Query 16:*

*Query to display the Current Date along with the day name.*

*select curdate() as date,weekday(curdate()) as day\_name;*

*+------------+----------+*

*| date | day\_name |*

*+------------+----------+*

*| 2021-02-21 | 6 |*

*+------------+----------+*

*1 row in set (0.00 sec)*

*Query 17:*

*Query to display Name, Hire Date and Salary Review Date which is the 1st Monday after six months of employment.*

*Select Ename,Hire\_date,date\_add(date\_add(Hire\_date,Interval 6 month),Interval(7-weekday(date\_add(Hire\_date,Interval 6 month)))day) as Salary\_Review\_date from employee;*

*+----------+------------+--------------------+*

*| Ename | Hire\_date | Salary\_Review\_date |*

*+----------+------------+--------------------+*

*| Alex | 2015-05-04 | 2015-11-09 |*

*| Rakesh | 2016-11-17 | 2017-05-22 |*

*| Hritik | 2012-09-17 | 2013-03-18 |*

*| Akshay | 2010-09-27 | 2011-03-28 |*

*| Raj | 2017-05-27 | 2017-12-04 |*

*| Brijesh | 2014-09-17 | 2015-03-23 |*

*| Satendra | 2009-02-14 | 2009-08-17 |*

*| Sapna | 2015-02-24 | 2015-08-31 |*

*+----------+------------+--------------------+*

*8 rows in set (0.00 sec)*

*Query 18:*

*Query to display Name and calculate the number of months between today and the date each employee was hired.*

*select Ename,Timestampdiff(month,Hire\_date,curdate())as no\_of\_months from employee;*

*+----------+--------------+*

*| Ename | no\_of\_months |*

*+----------+--------------+*

*| Alex | 69 |*

*| Rakesh | 51 |*

*| Hritik | 101 |*

*| Akshay | 124 |*

*| Raj | 44 |*

*| Brijesh | 77 |*

*| Satendra | 144 |*

*| Sapna | 71 |*

*+----------+--------------+*

*8 rows in set (0.00 sec)*

*Query 19:*

*Query to display the following for each employee <E-Name> earns <Salary> monthly but wants <3 \* Current Salary>. Label the Column as Dream Salary.*

*select concat(Ename," earns ",Salary," monthly but wants ",3\*Salary) as Dream\_Salary from employee;*

*+-----------------------------------------------------+*

*| Dream\_Salary |*

*+-----------------------------------------------------+*

*| Alex earns 20000.00 monthly but wants 60000.00 |*

*| Rakesh earns 30000.00 monthly but wants 90000.00 |*

*| Hritik earns 30000.00 monthly but wants 90000.00 |*

*| Akshay earns 90000.00 monthly but wants 270000.00 |*

*| Raj earns 90900.00 monthly but wants 272700.00 |*

*| Brijesh earns 90000.00 monthly but wants 270000.00 |*

*| Satendra earns 90000.00 monthly but wants 270000.00 |*

*| Sapna earns 90000.00 monthly but wants 270000.00 |*

*+-----------------------------------------------------+*

*8 rows in set (0.00 sec)*

*Query 20:*

*Query to display Name with the 1st letter capitalized and all other letter lower case and length of their name of all the employees whose name starts with ‘J’, ‘A’ and ‘M’.*

*select concat(UPPER(SUBSTRING(Ename,1,1)),LOWER(SUBSTRING(Ename,2)))as Name,LENGTH(Ename)as Name\_length from employee where Ename like "J%" or Ename like "A%" or Ename like "M%";*

*+--------+-------------+*

*| Name | Name\_length |*

*+--------+-------------+*

*| Alex | 4 |*

*| Akshay | 6 |*

*+--------+-------------+*

*2 rows in set (0.00 sec)*

*Query 21:*

*Query to display Name, Hire Date and Day of the week on which the employee started.*

*Select Ename,Hire\_date,WEEKDAY(Hire\_date)as Day From employee;*

*+----------+------------+------+*

*| Ename | Hire\_date | Day |*

*+----------+------------+------+*

*| Alex | 2015-05-04 | 0 |*

*| Rakesh | 2016-11-17 | 3 |*

*| Hritik | 2012-09-17 | 0 |*

*| Akshay | 2010-09-27 | 0 |*

*| Raj | 2017-05-27 | 5 |*

*| Brijesh | 2014-09-17 | 2 |*

*| Satendra | 2009-02-14 | 5 |*

*| Sapna | 2015-02-24 | 1 |*

*+----------+------------+------+*

*8 rows in set (0.00 sec)*

*Query 22:*

*Query to display Name, Department Name and Department No. for all the employees.*

*select e.Ename,d.Dname,e.Dno from department as d,employee as e*

*where d.Dno=e.Dno;*

*+----------+-----------+------+*

*| Ename | Dname | Dno |*

*+----------+-----------+------+*

*| Alex | Teacher | 1 |*

*| Brijesh | Teacher | 1 |*

*| Satendra | Teacher | 1 |*

*| Sapna | Teacher | 1 |*

*| Rakesh | Marketing | 2 |*

*| Hritik | Sales | 10 |*

*| Akshay | IT | 17 |*

*| Raj | IT | 19 |*

*+----------+-----------+------+*

*8 rows in set (0.00 sec)*

*Query 23:*

*Query to display Unique Listing of all Jobs that are in Department # 30.*

*select distinct Job\_type from employee where Dno=30;*

*Empty set (0.00 sec)*

*Query 24:*

*Query to display Name, Dept Name of all employees who have an ‘A’ in their name.*

*select e.Ename,d.Dname from department as d,employee as e where d.Dno=e.Dno and e.Ename like "%a%";*

*+----------+-----------+*

*| Ename | Dname |*

*+----------+-----------+*

*| Alex | Teacher |*

*| Rakesh | Marketing |*

*| Akshay | IT |*

*| Raj | IT |*

*| Satendra | Teacher |*

*| Sapna | Teacher |*

*+----------+-----------+*

*6 rows in set (0.00 sec)*

*Query 25:*

*Query to display Name, Job, Department No. And Department Name for all the employees working at the New Delhi Location.*

*select e.Ename,e.Job\_type,e.Dno,d.Dname from department as d,employee as e where d.Dno=e.Dno and d.Location="New Delhi ";*

*Empty set (0.00 sec)*

*Query 26:*

*Query to display Name and Employee no. Along with their Manager’s Name and the Manager’s employee no., along with the Employee’s Name who do not have a Manager.*

*Select e.Ename,e.Eno,d.Ename,d.Eno From employee as e left outer join employee as d on e.Manager=d.Eno;*

*+----------+-----+----------+------+*

*| Ename | Eno | Ename | Eno |*

*+----------+-----+----------+------+*

*| Alex | E01 | Alex | E01 |*

*| Rakesh | E02 | Rakesh | E02 |*

*| Hritik | E03 | Hritik | E03 |*

*| Akshay | E04 | Akshay | E04 |*

*| Raj | E05 | Raj | E05 |*

*| Brijesh | E06 | Brijesh | E06 |*

*| Satendra | E07 | Satendra | E07 |*

*| Sapna | E08 | Sapna | E08 |*

*+----------+-----+----------+------+*

*8 rows in set (0.00 sec)*

*Query 27:*

*Query to display Name, Dept No. And Salary of any employee whose department No. and salary matches both the department no. And the salary of any employee who earns a commission.*

*Select Ename,Dno,Salary From employee Where (Dno,Salary) in (Select Dno,Salary From employee Where Commission is not NULL);*

*+----------+------+----------+*

*| Ename | Dno | Salary |*

*+----------+------+----------+*

*| Alex | 1 | 20000.00 |*

*| Rakesh | 2 | 30000.00 |*

*| Hritik | 10 | 30000.00 |*

*| Akshay | 17 | 90000.00 |*

*| Raj | 19 | 90900.00 |*

*| Brijesh | 1 | 90000.00 |*

*| Satendra | 1 | 90000.00 |*

*| Sapna | 1 | 90000.00 |*

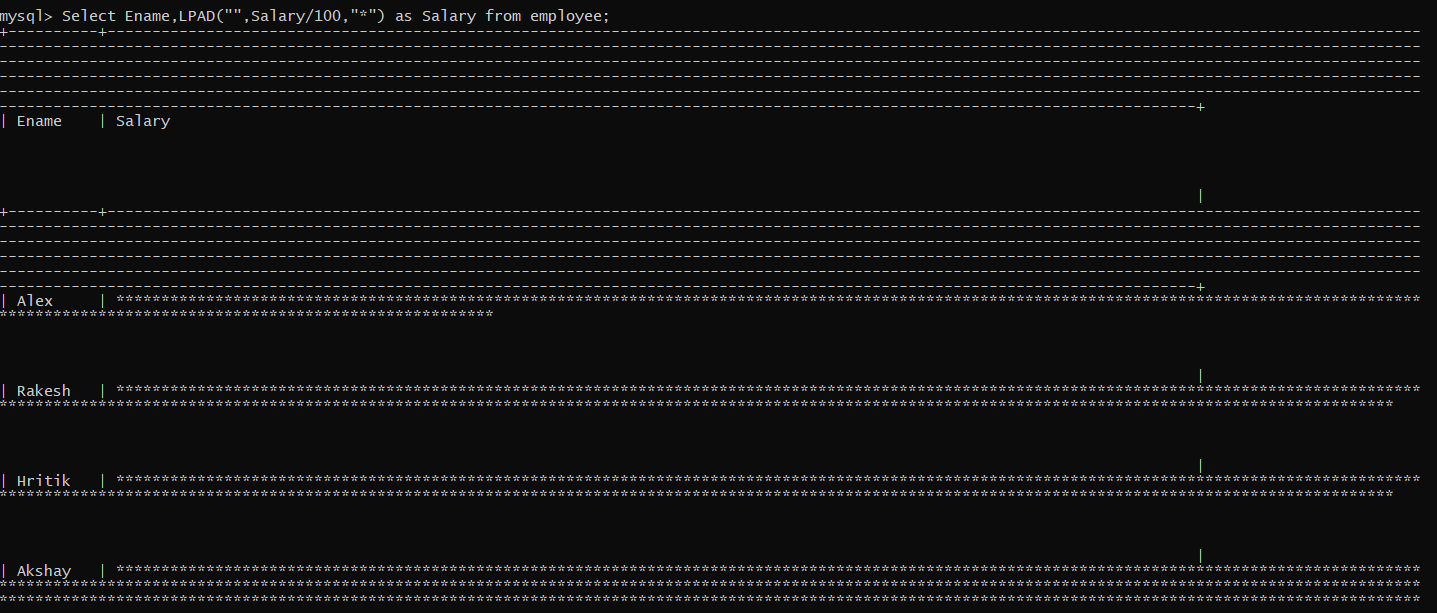
*+----------+------+----------+*

*8 rows in set (0.01 sec)*

*Query 28:*

*Query to display Name and Salaries represented by asterisks, where each asterisk (\*) signifies $100.*

*Select Ename,LPAD("",Salary/100,"\*") as Salary from employee;*

**

*Query 29:*

*Query to display the Highest, Lowest, Sum and Average Salaries of all employees.*

*Select MAX(Salary)as Highest,MIN(Salary)as Lowest,SUM(Salary)as Sum,AVG(Salary)as Average From employee;*

*+----------+----------+-----------+--------------+*

*| Highest | Lowest | Sum | Average |*

*+----------+----------+-----------+--------------+*

*| 90900.00 | 20000.00 | 530900.00 | 66362.500000 |*

*+----------+----------+-----------+--------------+*

*1 row in set (0.01 sec)*

*Query 30:*

*Query to display the number of employees performing the same Job type functions.*

*Select Job\_type ,Count(\*)as no\_of\_employees from employee group by Job\_type;*

*+-------------------+-----------------+*

*| Job\_type | no\_of\_employees |*

*+-------------------+-----------------+*

*| HOD | 4 |*

*| Assistant manager | 4 |*

*+-------------------+-----------------+*

*2 rows in set (0.00 sec)*

*Query 31:*

*Query to display the no. of managers without listing their names.*

*Select count(\*) as no\_of\_managers from employee as e where e.Manager in (Select distinct em.Manager from employee as em where em.Manager is not null);*

*+----------------+*

*| no\_of\_managers |*

*+----------------+*

*| 8 |*

*+----------------+*

*1 row in set (0.00 sec)*

*Query 32:*

*Query to display the Department name, Location name, No. of Employees and the average salary for all the employees in that department.*

*select d.Dname,d.Location,COUNT(\*) as no\_of\_employees,AVG(e.Salary)as average\_salary from department as d,employee as e where e.Dno=d.Dno group by d.Dno;*

*+-----------+---------------+-----------------+----------------+*

*| Dname | Location | no\_of\_employees | average\_salary |*

*+-----------+---------------+-----------------+----------------+*

*| Teacher | New Delhi | 4 | 72500.000000 |*

*| Marketing | Meerut | 1 | 30000.000000 |*

*| Sales | Tokyo | 1 | 30000.000000 |*

*| IT | San Francisco | 1 | 90000.000000 |*

*| IT | San Francisco | 1 | 90900.000000 |*

*+-----------+---------------+-----------------+----------------+*

*5 rows in set (0.00 sec)*

*Query 33:*

*Query to display Name and Hire Date for all the employees in the same dept. as Blake.*

*select Ename,Hire\_date from department,employee where Dname="Blake" and department.Dno=employee.Dno group by employee.Dno;*

*Empty set (0.00 sec)*

*Query 34:*

*Query to display the Employee no. and Name for all the employees who earn more than the average salary.*

*select Eno,Ename from employee where Salary>(select AVG(Salary) from employee);*

*+-----+----------+*

*| Eno | Ename |*

*+-----+----------+*

*| E04 | Akshay |*

*| E05 | Raj |*

*| E06 | Brijesh |*

*| E07 | Satendra |*

*| E08 | Sapna |*

*+-----+----------+*

*5 rows in set (0.00 sec)*

*Query 35:*

*Query to display Employee Number and Name for all the employees who work in a department with any employee whose name contains a “T”.*

*select e.Eno,e.Ename from employee as e where e.Dno in (Select em.Dno from employee as em where em.Ename like "%t%" group by em.Dno);*

*+-----+----------+*

*| Eno | Ename |*

*+-----+----------+*

*| E01 | Alex |*

*| E03 | Hritik |*

*| E06 | Brijesh |*

*| E07 | Satendra |*

*| E08 | Sapna |*

*+-----+----------+*

*5 rows in set (0.00 s*

***Query 36:***

*Employee Table updated only for this query*

*mysql> Update employee Set Ename="King" where Ename="Gopal";*

*mysql> update employee set manager="E06" where Ename="Vishu";*

*mysql> update employee set manager="E06" where Ename="Nishant";*

**Query to display the names and salaries of all employees who report to King.**

*mysql> Select Ename,Salary From employee Where Manager=(Select Eno From employee Where Ename="King");*

*Empty set (0.00 sec)*

*Query 37:*

*Query to display the department no., name and job for all employees in the Sales department.*

*Select e.Dno,e.Ename,e.Job\_type from employee as e,department as d where e.Dno=d.Dno and d.Dname="Sales”;*

*+------+--------+-------------------+*

*| Dno | Ename | Job\_type |*

*+------+--------+-------------------+*

*| 10 | Hritik | Assistant manager |*

*+------+--------+-------------------+*

*1 row in set (0.00 sec)*

*Query 38:*

*Display names of employees along with their department name who have more than 20 years experience.*

*Select e.Ename,d.Dname From department as d,employee as e Where TIMESTAMPDIFF(YEAR,e.Hire\_date,curdate())>20 and e.Dno=d.Dno;*

*Empty set (0.00 sec)*

*Query 39:*

*Display total no. of departments at each location.*

*select Location,count(\*) as no\_of\_departments from department group by Location;*

*+---------------+-------------------+*

*| Location | no\_of\_departments |*

*+---------------+-------------------+*

*| New Delhi | 1 |*

*| Meerut | 1 |*

*| Tokyo | 2 |*

*| San Francisco | 2 |*

*+---------------+-------------------+*

*4 rows in set (0.00 sec)*

*Query 40:*

*Find the department name in which atleast 20 emplyoyees work in.*

*Select distinct d.Dname From department as d,employee as e where d.Dno=e.Dno Group by d.Dno having Count(\*)>=20;*

*Empty set (0.00 sec)*

*Query 41:*

*Query to find the employee’s name who is not supervisor and name of supervisor supervising more than 5 employees.*

*Select Ename From employee Where Eno not in(Select Manager From employee Where Manager is not NULL) or Eno in(Select Manager From employee Group by Manager Having Count(\*)>5);*

*+-------+*

*| Ename |*

*+-------+*

*| King |*

*| Vishu |*

*+-------+*

*2 rows in set (0.00 sec)*

*Query 42:*

*Employee Table updated only for this query*

*mysql> Update employee set Job\_type="Research intern" Where Job\_type="Research";*

*mysql> Update employee set Job\_type="Marketing intern" Where Job\_type="Tech";*

*Query to display the job type with maximum and minimum employees.*

*mysql> With qry(Job\_type,no\_emp) as (Select Job\_type,Count(\*) as no\_emp From employee Group by Job\_type) Select Job\_type From qry Where no\_emp=(Select Max(no\_emp) from qry) or no\_emp=(Select Min(no\_emp) from qry);*

*+-------------------+*

*| Job\_type |*

*+-------------------+*

*| HOD |*

*| Assistant manager |*

*| Marketing |*

*| Marketing intern |*

*+-------------------+*

*4 rows in set (0.00 sec)*