SQL QUERIES

mysql –u root –p

```
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: 

pc@ASHISH c:\xampp1
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 10.4.22-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

CREATE SCHEMA EMP_DEPT;

```
XAMPP for Windows - mysql  -u root -p
MariaDB [(none)]> CREATE SCHEMA EMP_DEPT;
Query OK, 1 row affected (0.002 sec)
```

USE EMP_DEPT;

```
XAMPP for Windows - mysql  -u root -p
MariaDB [EMP_DEPT]> USE EMP_DEPT;
Database changed
MariaDB [EMP_DEPT]>
```

CREATE TABLE DEPARTMENT(DNO INT NOT NULL,

DNAME VARCHAR(50),

LOCATION VARCHAR(50) DEFAULT 'NEW DELHI',

PRIMARY KEY(DNO));

DESC DEPARTMENT;

```
+----------+-------------+------+-----+-----------+-------+
| Field    | Type        | Null | Key | Default   | Extra |
+----------+-------------+------+-----+-----------+-------+
| DNO      | int(11)     | NO   | PRI | NULL      |       |
| DNAME    | varchar(50) | YES  |     | NULL      |       |
| LOCATION | varchar(50) | YES  |     | NEW DELHI |       |
+----------+-------------+------+-----+-----------+-------+
```

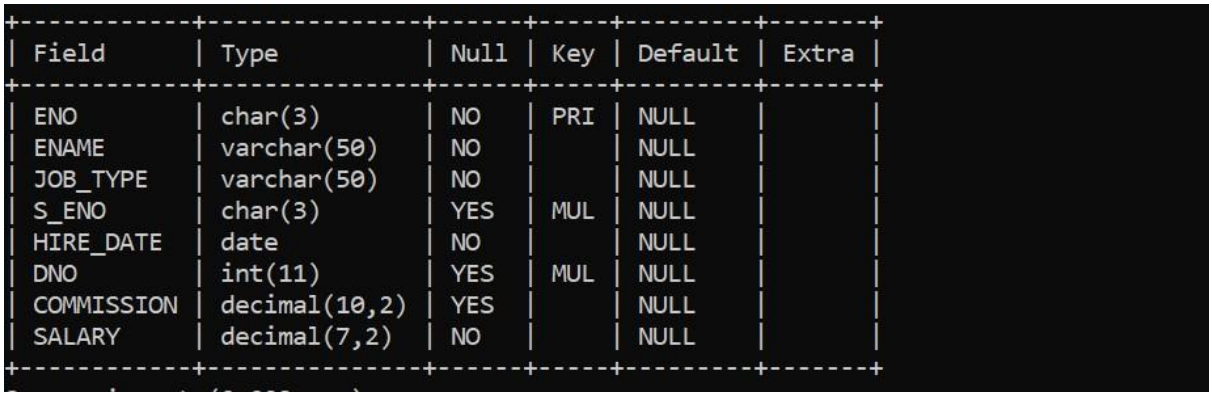
CREATE TABLE EMPLOYEE(ENO CHAR(3) NOT NULL,

ENAME VARCHAR(50) NOT NULL,

JOB_TYPE VARCHAR(50) NOT NULL,

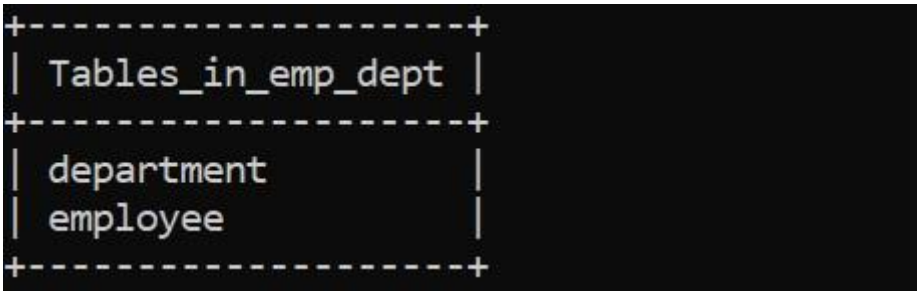
```
S_ENO CHAR(3),
HIRE_DATE DATE NOT NULL,
 DNO INT,
 COMMISSION DECIMAL(10,2),
 SALARY DECIMAL(7,2) NOT NULL,
  PRIMARY KEY(ENO),
  FOREIGN KEY(DNO) REFERENCES DEPARTMENT(DNO),
 FOREIGN KEY(S_ENO) REFERENCES EMPLOYEE(ENO));
```

DESC EMPLOYEE;



Field	Type	Null	Key	Default	Extra
ENO	char(3)	NO	PRI	NULL	
ENAME	varchar(50)	NO		NULL	
JOB_TYPE	varchar(50)	NO		NULL	
S_ENO	char(3)	YES	MUL	NULL	
HIRE_DATE	date	NO		NULL	
DNO	int(11)	YES	MUL	NULL	
COMMISSION	decimal(10,2)	YES		NULL	
SALARY	decimal(7,2)	NO		NULL	

SHOW TABLES;



Tables_in_emp_dept
department
employee

DEPARTMENT TABLE

INSERT INTO DEPARTMENT VALUES (‘20’,’CHEMISTRY’,’AGRA’);

INSERT INTO DEPARTMENT VALUES (‘30’,’physics’,PANIPAT’);

INSERT INTO DEPARTMENT VALUES (‘40’,’MATHS’,AGRA’);

INSERT INTO DEPARTMENT VALUES (‘50’,’HINDI’,’YAMUNA NAGAR’);

INSERT INTO DEPARTMENT VALUES (‘60’,’ACCOUNTS’,PRATAP NAGAR’);

INSERT INTO DEPARTMENT VALUES (‘70’,ACCOUNTS’,’SHIMLA’);

INSERT INTO DEPARTMENT VALUES (‘80’,HISTORY’,MANALI’);

INSERT INTO DEPARTMENT VALUES (‘90’,’ENGLISH’,’KULLU’);

INSERT INTO DEPARTMENT VALUES (‘100’,’ ECONOMICS’,CHANDIGARH’);

INSERT INTO DEPARTMENT VALUES (‘110’,’HINDI’,SHAHBAD’);

SELECT*FROM DEPARTMENT;

DNO	DNAME	LOCATION
20	CHEMISTRY	AGRA
30	PHYSICS	PANIPAT
40	MATHS	AGRA
50	HINDI	YAMUNA NAGAR
60	ACCOUNTS	PRATAP NAGAR
70	ACCOUNTS	SHIMLA
80	HISTORY	MANALI
90	ENGLISH	KULLU
100	ECONOMICS	CHANDIGARH
110	HINDI	SHAHBAD

EMPLOYEE TABLE

INSERT INTO EMPLOYEE VALUES

('6','ANSHIKA','STUDENT','1','2003-01-11','70','110','220'),

('7','ANSHITA','STUDENT','1','2003-01-11','70','180','2850'), ('8','MUSKAN','STUDENT','1','2003-01-21','70','120','1500'),

('9','YOGITA','PROFESSOR','1','2002-01-21','70','2220','15002'),

('10','YOGANSHU','ASSISTANT','2','1981-01-21','70','22110','123002'),

('11','YOGANSHU','ASSISTANT','2','1981-21-21','70','22310','126102'),

('12','YOGANSH','CO ASSISTANT','2','1981-21-11','70','210','12202'),

('13','YOGESH','LAB ATTENDANT','2','1980-21-11','70','230','12234'), ->
('14','HIMANSHU','TEACHER','2','1980-21-15','70','2987','125678'),

('15','HANSRAJ','STUDENT','2','2011-11-15','70','2007','120000'),

('16','HEMA','STUDENT','6','2011-10-15','70','207','120230'),

('17','VINAY','PROFESSOR','7','2011-10-18','70','232','120232'), ('18','VINII','PROFESSOR','9','2010-10-18','70','235','199232'),

('19','VISHAKHA','PRINCIPAL','3','2010-10-19','70','232','192222'),

('20','VISHAL','WORKER','5','2010-10-09','70','2232','2234522'),

('21','VIKAS','HELPER','7','2010-10-19','70','292','22542'),

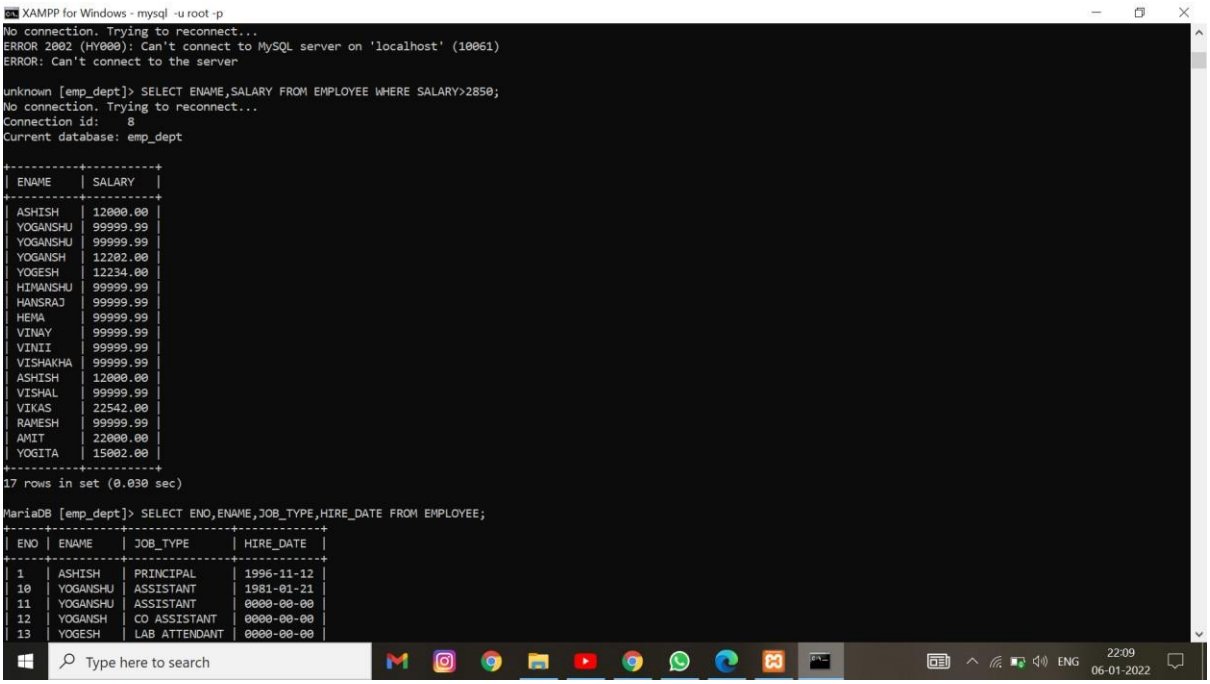
('22','RAMESH','HELPER','8','2011-10-19','80','234','567842');

SELECT*FROM EMPLOYEE;

ENO	ENAME	JOB_TYPE	S_ENO	HIRE_DATE	DNO	COMMISSION	SALARY
1	ASHISH	PRINCIPAL	1	1996-11-12	70	9000.00	12000.00
10	YOGANSHU	ASSISTANT	2	1981-01-21	70	22110.00	99999.99
11	YOGANSHU	ASSISTANT	2	0000-00-00	70	22310.00	99999.99
12	YOGANSH	CO ASSISTANT	2	0000-00-00	70	210.00	12202.00
13	YOGESH	LAB ATTENDANT	2	0000-00-00	70	230.00	12234.00
14	HIMANSHU	TEACHER	2	0000-00-00	70	2987.00	99999.99
15	HANSRAJ	STUDENT	2	2011-11-15	70	2007.00	99999.99
16	HEMA	STUDENT	6	2011-10-15	70	207.00	99999.99
17	VINAY	PROFESSOR	7	2011-10-18	70	232.00	99999.99
18	VINII	PROFESSOR	9	2010-10-18	70	235.00	99999.99
19	VISHAKHA	PRINCIPAL	3	2010-10-19	70	232.00	99999.99
2	ASHISH	PRINCIPAL	1	1996-11-12	70	9000.00	12000.00
20	VISHAL	WORKER	5	2010-10-09	70	2232.00	99999.99
21	VIKAS	HELPER	7	2010-10-19	70	292.00	22542.00
22	RAMESH	HELPER	8	2011-10-19	80	234.00	99999.99
3	AMIT	MANAGER	1	1996-01-12	70	9200.00	22000.00
4	ARUN	WORKER	1	1995-01-12	70	920.00	2200.00
5	ARUNITA	HELPER	1	1995-01-11	70	910.00	2202.00
6	ANSHIKA	STUDENT	1	2003-01-11	70	110.00	220.00
7	ANSHITA	STUDENT	1	2003-01-11	70	180.00	2850.00
8	MUSKAN	STUDENT	1	2003-01-21	70	120.00	1500.00
9	YOGITA	PROFESSOR	1	2002-01-21	70	2220.00	15002.00

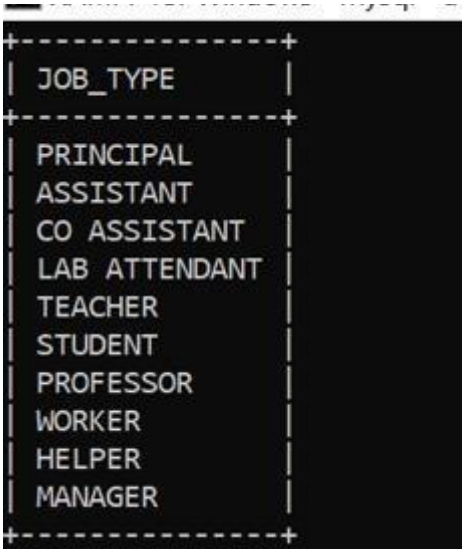
1. **Query to display Employee Name, Job, Hire Date, Employee Number; for each employee with the Employee Number appearing first.**

SELECT Eno, Ename, Job_type, Hire_date FROM EMPLOYEE;



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

SELECT DISTINCT Job_type FROM EMPLOYEE;



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

SELECT CONCAT(Ename,',',Job_type) AS NAME_AND_JOB FROM EMPLOYEE;

```
+-----------------------------+
| CONCAT(ENAME,',',JOB_TYPE)  |
+-----------------------------+
| ASHISH,PRINCIPAL            |
| YOGANSHU,ASSISTANT          |
| YOGANSHU,ASSISTANT          |
| YOGANSH,CO ASSISTANT        |
| YOGESH,LAB ATTENDANT        |
| HIMANSHU,TEACHER            |
| HANSRAJ,STUDENT             |
| HEMA,STUDENT                |
| VINAY,PROFESSOR             |
| VINII,PROFESSOR             |
| VISHAKHA,PRINCIPAL          |
| ASHISH,PRINCIPAL            |
| VISHAL,WORKER               |
| VIKAS,HELPER                |
| RAMESH,HELPER               |
| AMIT,MANAGER                |
| ARUN,WORKER                 |
| ARUNITA,HELPER              |
| ANSHIKA,STUDENT             |
| ANSHITA,STUDENT             |
| MUSKAN,STUDENT              |
```

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(Eno,',',Ename,',',Job_type,',',S_Eno,',',Hire_date,',',D_no,',',Commission, ',',Salary)AS THE_OUTPUT FROM EMPLOYEE;

```
ariaDB [emp_dept]> SELECT CONCAT(ENO,',',ENAME,',',JOB_TYPE,',',S_ENO,',',HIRE_DATE,',',DNO,',',COMMISSION,',',SALARY)AS THE_OUTPUT FROM EMPLOYEE;
+-----------------------------------------------------+
| THE_OUTPUT                                          |
+-----------------------------------------------------+
| 1,ASHISH,PRINCIPAL,1,1996-11-12,70,9000.00,12000.00 |
| 10,YOGANSHU,ASSISTANT,2,1981-01-21,70,22110.00,99999.99 |
| 11,YOGANSHU,ASSISTANT,2,0000-00-00,70,22310.00,99999.99 |
| 12,YOGANSH,CO ASSISTANT,2,0000-00-00,70,210.00,12202.00 |
| 13,YOGESH,LAB ATTENDANT,2,0000-00-00,70,230.00,12234.00 |
| 14,HIMANSHU,TEACHER,2,0000-00-00,70,2987.00,99999.99 |
| 15,HANSRAJ,STUDENT,2,2011-11-15,70,2007.00,99999.99 |
| 16,HEMA,STUDENT,6,2011-10-15,70,207.00,99999.99     |
| 17,VINAY,PROFESSOR,7,2011-10-18,70,232.00,99999.99  |
| 18,VINII,PROFESSOR,9,2010-10-18,70,235.00,99999.99  |
| 19,VISHAKHA,PRINCIPAL,3,2010-10-19,70,232.00,99999.99 |
| 2,ASHISH,PRINCIPAL,1,1996-11-12,70,9000.00,12000.00 |
| 20,VISHAL,WORKER,5,2010-10-09,70,2232.00,99999.99   |
| 21,VIKAS,HELPER,7,2010-10-19,70,292.00,22542.00     |
| 22,RAMESH,HELPER,8,2011-10-19,80,234.00,99999.99    |
| 3,AMIT,MANAGER,1,1996-01-12,70,9200.00,22000.00     |
| 4,ARUN,WORKER,1,1995-01-12,70,920.00,2200.00        |
| 5,ARUNITA,HELPER,1,1995-01-11,70,910.00,2202.00     |
| 6,ANSHIKA,STUDENT,1,2003-01-11,70,110.00,220.00     |
| 7,ANSHITA,STUDENT,1,2003-01-11,70,180.00,2850.00    |
| 8,MUSKAN,STUDENT,1,2003-01-21,70,120.00,1500.00     |
| 9,YOGITA,PROFESSOR,1,2002-01-21,70,2220.00,15002.00 |
+-----------------------------------------------------+
```

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;

```
MariaDB [emp_dept]> SELECT ENAME,SALARY FROM EMPLOYEE WHERE (SALARY+COMMISSION)>2850;
+----------+----------+
| ENAME    | SALARY   |
+----------+----------+
| ASHISH   | 12000.00 |
| YOGANSHU | 99999.99 |
| YOGANSHU | 99999.99 |
| YOGANSH  | 12202.00 |
| YOGESH   | 12234.00 |
| HIMANSHU | 99999.99 |
| HANSRAJ  | 99999.99 |
| HEMA     | 99999.99 |
| VINAY    | 99999.99 |
| VINII    | 99999.99 |
| VISHAKHA | 99999.99 |
| ASHISH   | 12000.00 |
| VISHAL   | 99999.99 |
| VIKAS    | 22542.00 |
| RAMESH   | 99999.99 |
| AMIT     | 22000.00 |
| ARUN     |  2200.00 |
| ARUNITA  |  2202.00 |
| ANSHITA  |  2850.00 |
| YOGITA   | 15002.00 |
+----------+----------+
```

6.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 NOT BETWEEN 1500 AND 2850;

```
MariaDB [emp_dept]> SELECT ENAME,SALARY FROM EMPLOYEE WHERE SALARY NOT BETWEEN 1500 AND 2850;
+----------+----------+
| ENAME    | SALARY   |
+----------+----------+
| ASHISH   | 12000.00 |
| YOGANSHU | 99999.99 |
| YOGANSHU | 99999.99 |
| YOGANSH  | 12202.00 |
| YOGESH   | 12234.00 |
| HIMANSHU | 99999.99 |
| HANSRAJ  | 99999.99 |
| HEMA     | 99999.99 |
| VINAY    | 99999.99 |
| VINII    | 99999.99 |
| VISHAKHA | 99999.99 |
| ASHISH   | 12000.00 |
| VISHAL   | 99999.99 |
| VIKAS    | 22542.00 |
| RAMESH   | 99999.99 |
| AMIT     | 22000.00 |
| ANSHIKA  |   220.00 |
| YOGITA   | 15002.00 |
+----------+----------+
18 rows in set (0.002 sec)
```

7.Query to display Employee Name and Department Number for the Employee No= 79

SELECT ENAME,DNO FROM EMPLOYEE WHERE ENO=79;

```
MariaDB [emp_dept]> SELECT ENAME,DNO FROM EMPLOYEE WHERE ENO=79;
+----------+------+
| ENAME    | DNO  |
+----------+------+
| ANSHIMAN |   70 |
+----------+------+
```

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=30 OR DNO=10 ORDER BY Ename;

```
MariaDB [emp_dept]> SELECT ENAME,DNO FROM EMPLOYEE WHERE DNO=10 OR DNO=30 ORDER BY ENAME;
+-------+------+
| ENAME | DNO  |
+-------+------+
| ANSHI |   30 |
+-------+------+
1 row in set (0.002 sec)
```

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

SELECT Ename,Hire_date FROM EMPLOYEE WHERE YEAR(Hire_date)=’1981’;

```
MariaDB [emp_dept]> SELECT ENAME,HIRE_DATE FROM EMPLOYEE WHERE YEAR(HIRE_DATE)='1981';
+----------+------------+
| ENAME    | HIRE_DATE  |
+----------+------------+
| YOGANSHU | 1981-01-21 |
+----------+------------+
1 row in set (0.082 sec)
```

10. Query to display Name and Job of all employees who have not assigned a supervisor.

SELECT Ename,Job_type FROM EMPLOYEE WHERE S_Eno IS NULL;

```
partment  ( DNO ))
MariaDB [emp_dept]> SELECT ENAME,JOB_TYPE FROM EMPLOYEE WHERE S_ENO IS NULL;
Empty set (0.001 sec)
```

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

SELECT Ename,Salary,Commission FROM EMPLOYEE WHERE Commission!=0;

```
MariaDB [emp_dept]> SELECT SALARY,ENAME,COMMISSION FROM EMPLOYEE WHERE COMMISSION IS NOT NULL;
+----------+----------+------------+
| SALARY   | ENAME    | COMMISSION |
+----------+----------+------------+
| 12000.00 | ASHISH   |    9000.00 |
| 99999.99 | YOGANSHU |   22110.00 |
| 99999.99 | YOGANSHU |   22310.00 |
| 12202.00 | YOGANSH  |     210.00 |
| 12234.00 | YOGESH   |     230.00 |
| 99999.99 | HIMANSHU |    2987.00 |
| 99999.99 | HANSRAJ  |    2007.00 |
| 99999.99 | HEMA     |     207.00 |
| 99999.99 | VINAY    |     232.00 |
| 99999.99 | VINII    |     235.00 |
| 99999.99 | VISHAKHA |     232.00 |
| 12000.00 | ASHISH   |    9000.00 |
| 99999.99 | VISHAL   |    2232.00 |
| 22542.00 | VIKAS    |     292.00 |
| 99999.99 | RAMESH   |     234.00 |
| 22000.00 | AMIT     |    9200.00 |
|  2200.00 | ARUN     |     920.00 |
|  2202.00 | ARUNITA  |     910.00 |
|   220.00 | ANSHIKA  |     110.00 |
|  2850.00 | ANSHITA  |     180.00 |
| 99999.99 | JGAT     |    1123.00 |
|  1234.00 | ANSHIMAN |     121.00 |
|  1500.00 | MUSKAN   |     120.00 |
|  1234.00 | ANSHI    |     121.00 |
| 15002.00 | YOGITA   |    2220.00 |
+----------+----------+------------+
25 rows in set (0.001 sec)
```

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

SELECT Salary,Commission FROM EMPLOYEE ORDER BY Salary DESC,Commission DESC;

```
MariaDB [emp_dept]> SELECT * FROM EMPLOYEE ORDER BY SALARY DESC,COMMISSION DESC;
+-----+----------+--------------+-------+------------+------+------------+----------+
| ENO | ENAME    | JOB_TYPE     | S_ENO | HIRE_DATE  | DNO  | COMMISSION | SALARY   |
+-----+----------+--------------+-------+------------+------+------------+----------+
| 11  | YOGANSHU | ASSISTANT    | 2     | 0000-00-00 |   70 |   22310.00 | 99999.99 |
| 10  | YOGANSHU | ASSISTANT    | 2     | 1981-01-21 |   70 |   22110.00 | 99999.99 |
| 14  | HIMANSHU | TEACHER      | 2     | 0000-00-00 |   70 |    2987.00 | 99999.99 |
| 20  | VISHAL   | WORKER       | 5     | 2010-10-09 |   70 |    2232.00 | 99999.99 |
| 15  | HANSRAJ  | STUDENT      | 2     | 2011-11-15 |   70 |    2007.00 | 99999.99 |
| 76  | JGAT     | WORKER       | 76    | 2011-11-11 |   30 |    1123.00 | 99999.99 |
| 18  | VINII    | PROFESSOR    | 9     | 2010-10-18 |   70 |     235.00 | 99999.99 |
| 22  | RAMESH   | HELPER       | 8     | 2011-10-19 |   80 |     234.00 | 99999.99 |
| 17  | VINAY    | PROFESSOR    | 7     | 2011-10-18 |   70 |     232.00 | 99999.99 |
| 19  | VISHAKHA | PRINCIPAL    | 3     | 2010-10-19 |   70 |     232.00 | 99999.99 |
| 16  | HEMA     | STUDENT      | 6     | 2011-10-15 |   70 |     207.00 | 99999.99 |
| 21  | VIKAS    | HELPER       | 7     | 2010-10-19 |   70 |     292.00 | 22542.00 |
| 3   | AMIT     | MANAGER      | 1     | 1996-01-12 |   70 |    9200.00 | 22000.00 |
| 9   | YOGITA   | PROFESSOR    | 1     | 2002-01-21 |   70 |    2220.00 | 15002.00 |
| 13  | YOGESH   | LAB ATTENDANT| 2     | 0000-00-00 |   70 |     230.00 | 12234.00 |
| 12  | YOGANSH  | CO ASSISTANT | 2     | 0000-00-00 |   70 |     210.00 | 12202.00 |
| 1   | ASHISH   | PRINCIPAL    | 1     | 1996-11-12 |   70 |    9000.00 | 12000.00 |
| 2   | ASHISH   | PRINCIPAL    | 1     | 1996-11-12 |   70 |    9000.00 | 12000.00 |
| 7   | ANSHITA  | STUDENT      | 1     | 2003-01-11 |   70 |     180.00 |  2850.00 |
| 5   | ARUNITA  | HELPER       | 1     | 1995-01-11 |   70 |     910.00 |  2202.00 |
| 4   | ARUN     | WORKER       | 1     | 1995-01-12 |   70 |     920.00 |  2200.00 |
| 8   | MUSKAN   | STUDENT      | 1     | 2003-01-21 |   70 |     120.00 |  1500.00 |
| 79  | ANSHIMAN | ASSISTANT    | 79    | 2020-10-10 |   70 |     121.00 |  1234.00 |
| 80  | ANSHI    | ASSISTANT    | 79    | 2020-10-10 |   30 |     121.00 |  1234.00 |
| 6   | ANSHIKA  | STUDENT      | 1     | 2003-01-11 |   70 |     110.00 |   220.00 |
+-----+----------+--------------+-------+------------+------+------------+----------+
25 rows in set (0.003 sec)
```

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%’;

```
MariaDB [emp_dept]> SELECT ENAME FROM EMPLOYEE WHERE ENAME LIKE'__A%';
+-------+
| ENAME |
+-------+
| JGAT  |
+-------+
1 row in set (0.001 sec)
```

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 (Dno=30 OR S_Eno=7788) AND Ename LIKE ‘%A%A%’ OR ‘%R%R%’;

```
MariaDB [emp_dept]> SELECT ENAME FROM EMPLOYEE WHERE ENAME LIKE('%R%R%' OR '%A%A%') AND (DNO='30' OR S_ENO='778');
Empty set, 16 warnings (0.012 sec)
```

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

SELECT Ename,Salary,Commission FROM EMPLOYEE WHERE Commission>(Salary+(Salary*5/100));

```
ERROR 1054 (42S22): Unknown column 'COMMISSION' in 'where clause'
MariaDB [emp_dept]> SELECT ENAME,SALARY,COMMISSION FROM EMPLOYEE WHERE COMMISSION>SALARY+5/100*SALARY;
+---------+--------+-------------+
| ENAME   | SALARY | COMMISSION  |
+---------+--------+-------------+
| JGAT RAM | 122.00 | 99999999.99 |
+---------+--------+-------------+
1 row in set (0.001 sec)
```

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

SELECT CURDATE(),DAYNAME(CURDATE());

```
MariaDB [emp_dept]> select curdate(),dayname(curdate());
+------------+--------------------+
| curdate()  | dayname(curdate()) |
+------------+--------------------+
| 2022-01-12 | Wednesday          |
```

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 REVIEW_DATE FROM EMPLOYEE;

```
MariaDB [(none)]> use emp_dept;
Database changed
MariaDB [emp_dept]> 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 REVIEW_DATE FROM
 EMPLOYEE;
+----------+------------+-------------+
| ENAME    | HIRE_DATE  | REVIEW_DATE |
+----------+------------+-------------+
| ASHISH   | 1996-11-12 | 1997-05-19  |
| YOGANSHU | 1981-01-21 | 1981-07-27  |
| JGAT RAM | 2011-11-11 | 2012-05-14  |
| YOGANSHU | 0000-00-00 | NULL        |
| YOGANSH  | 0000-00-00 | NULL        |
| YOGESH   | 0000-00-00 | NULL        |
| HIMANSHU | 0000-00-00 | NULL        |
| HANSRAJ  | 2011-11-15 | 2012-05-21  |
| HEMA     | 2011-10-15 | 2012-04-16  |
| VINAY    | 2011-10-18 | 2012-04-23  |
| VINII    | 2010-10-18 | 2011-04-25  |
| VISHAKHA | 2010-10-19 | 2011-04-25  |
| ASHISH   | 1996-11-12 | 1997-05-19  |
| VISHAL   | 2010-10-09 | 2011-04-11  |
| VIKAS    | 2010-10-19 | 2011-04-25  |
| RAMESH   | 2011-10-19 | 2012-04-23  |
| AMIT     | 1996-01-12 | 1996-07-15  |
| ARUN     | 1995-01-12 | 1995-07-17  |
| ARUNITA  | 1995-01-11 | 1995-07-17  |
| ANSHIKA  | 2003-01-11 | 2003-07-14  |
| ANSHITA  | 2003-01-11 | 2003-07-14  |
| JGAT     | 2011-11-11 | 2012-05-14  |
| JGAT RAM | 2011-11-11 | 2012-05-14  |
| ANSHIMAN | 2020-10-10 | 2021-04-12  |
| MUSKAN   | 2003-01-21 | 2003-07-28  |
| ANSHI    | 2020-10-10 | 2021-04-12  |
| YOGITA   | 2002-01-21 | 2002-07-22  |
+----------+------------+-------------+
27 rows in set, 4 warnings (0.082 sec)

MariaDB [emp_dept]>
```

18. Query to display Name and calculate the number of months between today and the date on which employee was hired of department ‘Purchase’.

SELECT Ename,12*(YEAR(CURDATE())YEAR(Hire_date))+MONTH(Hire_date)FROM EMPLOYEE WHERE Dno=’100’;

```
MariaDB [emp_dept]> SELECT ENAME,12*(YEAR(CURDATE())-YEAR(HIRE_DATE))+MONTH(CURDATE())-MONTH(HIRE_DATE) FROM EMPLOYEE WHERE DNO='100';
+----------+-----------------------------------------------------------------------+
| ENAME    | 12*(YEAR(CURDATE())-YEAR(HIRE_DATE))+MONTH(CURDATE())-MONTH(HIRE_DATE) |
+----------+-----------------------------------------------------------------------+
| JGAT RAM |                                                                   122 |
+----------+-----------------------------------------------------------------------+
1 row in set (0.002 sec)
```

19. Query to display the following for each employee 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;

```
MariaDB [emp_dept]> select concat(ename,"earns",salary,"but wants",3*salary) as dream_salary from employee;
+----------------------------------------+
| dream_salary                           |
+----------------------------------------+
| ASHISHearns12000.00but wants36000.00   |
| YOGANSHUearns99999.99but wants299999.97 |
| JGAT RAMearns122.00but wants366.00     |
| YOGANSHUearns99999.99but wants299999.97 |
| YOGANSHearns12202.00but wants36606.00  |
| YOGESHearns12234.00but wants36702.00   |
| HIMANSHUearns99999.99but wants299999.97 |
| HANSRAJearns99999.99but wants299999.97 |
| HEMAearns99999.99but wants299999.97    |
| VINAYearns99999.99but wants299999.97   |
| VINIIearns99999.99but wants299999.97   |
| VISHAKHAearns99999.99but wants299999.97 |
| ASHISHearns12000.00but wants36000.00   |
| VISHALearns99999.99but wants299999.97  |
| VIKASearns22542.00but wants67626.00    |
| RAMESHearns99999.99but wants299999.97  |
| AMITearns22000.00but wants66000.00     |
| ARUNearns2200.00but wants6600.00       |
| ARUNITAearns2202.00but wants6606.00    |
| ANSHIKAearns220.00but wants660.00      |
| ANSHITAearns2850.00but wants8550.00    |
| JGATearns99999.99but wants299999.97    |
| JGAT RAMearns122.00but wants366.00     |
| ANSHIMANearns1234.00but wants3702.00   |
| MUSKANearns1500.00but wants4500.00     |
| ANSHIearns1234.00but wants3702.00      |
| YOGITAearns15002.00but wants45006.00   |
+----------------------------------------+
27 rows in set (0.013 sec)
```

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 LENGTH FROM EMPLOYEE WHERE Ename LIKE'J%' OR Ename LIKE 'A%' OR Ename LIKE 'M%';

```
MariaDB [emp_dept]> select concat(upper(substring(ename,1,1)),lower(substring(ename,2))) as name,length(ename) as length from employee where ename like 'J%' or ename like'A
%' or ename like 'M%';
+----------+--------+
| name     | length |
+----------+--------+
| Ashish   |      6 |
| Jgat ram |      8 |
| Ashish   |      6 |
| Amit     |      4 |
| Arun     |      4 |
| Arunita  |      7 |
| Anshika  |      7 |
| Anshita  |      7 |
| Jgat     |      4 |
| Jgat ram |      8 |
| Anshiman |      8 |
| Muskan   |      6 |
| Anshi    |      5 |
+----------+--------+
13 rows in set (0.016 sec)
```

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

SELECT Ename,Hire_date,DAYNAME(Hire_date) AS WEEK_DAY FROM EMPLOYEE;

```
MariaDB [emp_dept]> select ename,hire_date ,dayname(hire_date) as week_day from employee;
+----------+------------+-----------+
| ename    | hire_date  | week_day  |
+----------+------------+-----------+
| ASHISH   | 1996-11-12 | Tuesday   |
| YOGANSHU | 1981-01-21 | Wednesday |
| JGAT RAM | 2011-11-11 | Friday    |
| YOGANSHU | 0000-00-00 | NULL      |
| YOGANSH  | 0000-00-00 | NULL      |
| YOGESH   | 0000-00-00 | NULL      |
| HIMANSHU | 0000-00-00 | NULL      |
| HANSRAJ  | 2011-11-15 | Tuesday   |
| HEMA     | 2011-10-15 | Saturday  |
| VINAY    | 2011-10-18 | Tuesday   |
| VINII    | 2010-10-18 | Monday    |
| VISHAKHA | 2010-10-19 | Tuesday   |
| ASHISH   | 1996-11-12 | Tuesday   |
| VISHAL   | 2010-10-09 | Saturday  |
| VIKAS    | 2010-10-19 | Tuesday   |
| RAMESH   | 2011-10-19 | Wednesday |
| AMIT     | 1996-01-12 | Friday    |
| ARUN     | 1995-01-12 | Thursday  |
| ARUNITA  | 1995-01-11 | Wednesday |
| ANSHIKA  | 2003-01-11 | Saturday  |
| ANSHITA  | 2003-01-11 | Saturday  |
| JGAT     | 2011-11-11 | Friday    |
| JGAT RAM | 2011-11-11 | Friday    |
| ANSHIMAN | 2020-10-10 | Saturday  |
| MUSKAN   | 2003-01-21 | Tuesday   |
| ANSHI    | 2020-10-10 | Saturday  |
| YOGITA   | 2002-01-21 | Monday    |
+----------+------------+-----------+
27 rows in set (0.003 sec)
```

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

SELECT EMPLOYEE.Ename,DEPARTMENT.Dname,EMPLOYEE.Dno FROM EMPLOYEE,DEPARTMENT WHERE EMPLOYEE.Dno=DEPARTMENT.Dno;

```
MariaDB [emp_dept]>  SELECT EMPLOYEE.ENAME,DEPARTMENT.DNAME,EMPLOYEE.DNO FROM EMPLOYEE,DEPARTMENT WHERE EMPLOYEE.DNO=DEPARTMENT.DNO;
+----------+----------+------+
| ENAME    | DNAME    | DNO  |
+----------+----------+------+
| ASHISH   | ACCOUNTS |   70 |
| YOGANSHU | ACCOUNTS |   70 |
| JGAT RAM | ECONOMICS |  100 |
| YOGANSHU | ACCOUNTS |   70 |
| YOGANSH  | ACCOUNTS |   70 |
| YOGESH   | ACCOUNTS |   70 |
| HIMANSHU | ACCOUNTS |   70 |
| HANSRAJ  | ACCOUNTS |   70 |
| HEMA     | ACCOUNTS |   70 |
| VINAY    | ACCOUNTS |   70 |
| VINII    | ACCOUNTS |   70 |
| VISHAKHA | ACCOUNTS |   70 |
| ASHISH   | ACCOUNTS |   70 |
| VISHAL   | ACCOUNTS |   70 |
| VIKAS    | ACCOUNTS |   70 |
| RAMESH   | HISTORY  |   80 |
| AMIT     | ACCOUNTS |   70 |
| ARUN     | ACCOUNTS |   70 |
| ARUNITA  | ACCOUNTS |   70 |
| ANSHIKA  | ACCOUNTS |   70 |
| ANSHITA  | ACCOUNTS |   70 |
| JGAT     | PHYSICS  |   30 |
| JGAT RAM | PHYSICS  |   30 |
| ANSHIMAN | ACCOUNTS |   70 |
| MUSKAN   | ACCOUNTS |   70 |
| ANSHI    | PHYSICS  |   30 |
| YOGITA   | ACCOUNTS |   70 |
+----------+----------+------+
27 rows in set (0.067 sec)
```

23. Query to display Unique Listing of all Jobs that are in Department number 30.

SELECT DISTINCT Job_type FROM EMPLOYEE WHERE Dno=30;

```
MariaDB [emp_dept]> select distinct job_type from employee where dno=30;
+-----------+
| job_type  |
+-----------+
| WORKER    |
| ASSISTANT |
+-----------+
2 rows in set (0.029 sec)
```

24. Query to display Name, Dept Name of all employees who have an 'A' in their name

SELECT EMPLOYEE.Ename,DEPARTMENT.Dname FROM EMPLOYEE WHERE Ename LIKE '%A%' AND EMPLOYEE.Dno=DEPARTMENT.Dno;

```
MariaDB [emp_dept]>  SELECT EMPLOYEE.ENAME,DEPARTMENT.DNAME FROM EMPLOYEE,DEPARTMENT WHERE ENAME LIKE '%A%' AND EMPLOYEE.DNO=DEPARTMENT.DNO;
+----------+----------+
| ENAME    | DNAME    |
+----------+----------+
| ASHISH   | ACCOUNTS |
| YOGANSHU | ACCOUNTS |
| JGAT RAM | ECONOMICS |
| YOGANSHU | ACCOUNTS |
| YOGANSH  | ACCOUNTS |
| HIMANSHU | ACCOUNTS |
| HANSRAJ  | ACCOUNTS |
| HEMA     | ACCOUNTS |
| VINAY    | ACCOUNTS |
| VISHAKHA | ACCOUNTS |
| ASHISH   | ACCOUNTS |
| VISHAL   | ACCOUNTS |
| VIKAS    | ACCOUNTS |
| RAMESH   | HISTORY  |
| AMIT     | ACCOUNTS |
| ARUN     | ACCOUNTS |
| ARUNITA  | ACCOUNTS |
| ANSHIKA  | ACCOUNTS |
| ANSHITA  | ACCOUNTS |
| JGAT     | PHYSICS  |
| JGAT RAM | PHYSICS  |
| ANSHIMAN | ACCOUNTS |
| MUSKAN   | ACCOUNTS |
| ANSHI    | PHYSICS  |
| YOGITA   | ACCOUNTS |
+----------+----------+
25 rows in set (0.002 sec)
```

25. Query to display Name, Job, Department No. And Department Name for all the employees working at the Dallas location.

SELECT EMPLOYEE.Ename,EMPLOYEE.Job_type,DEPARTMENT.Dname,EMPLOYEE.Dno FROM EMPLOYEE,DEPARTMENT WHERE DEPARTMENT.LOCATION='PANIPAT' AND DEPARTMENT.Dno=EMPLOYEE.Dno;

```
MariaDB [emp_dept]> SELECT EMPLOYEE.ENAME,EMPLOYEE.JOB_TYPE,DEPARTMENT.DNAME,EMPLOYEE.DNO FROM EMPLOYEE,DEPARTMENT WHERE DEPARTMENT.LOCATION='PANIPAT' AND DEPARTMENT.DNO=EMPLOYEE.DNO;
+----------+-----------+---------+------+
| ENAME    | JOB_TYPE  | DNAME   | DNO  |
+----------+-----------+---------+------+
| JGAT     | WORKER    | PHYSICS |   30 |
| JGAT RAM | WORKER    | PHYSICS |   30 |
| ANSHI    | ASSISTANT | PHYSICS |   30 |
+----------+-----------+---------+------+
3 rows in set (0.001 sec)
```

26. Query to display Name and Employee no. Along with their supervisor's Name and the supervisor's employee no; along with the Employees' Name who do not have a supervisor.

SELECT e.Ename,e.Eno,d.Ename AS SUPERVISIOR,d.S_Eno FROM EMPLOYEE AS e LEFT OUTER JOIN EMPLOYEE AS d ON e.S_Eno=d.Eno;

```
MariaDB [emp_dept]> SELECT E.ENAME,E.ENO,d.ENAME AS SUPERVISOR,d.S_ENO FROM EMPLOYEE AS E LEFT OUTER JOIN EMPLOYEE AS d ON E.S_ENO=d.ENO;
+----------+-----+------------+-------+
| ENAME    | ENO | SUPERVISOR | S_ENO |
+----------+-----+------------+-------+
| ASHISH   | 1   | ASHISH     | 1     |
| blake    | 10  | ASHISH     | 1     |
| JGAT RAM | 100 | JGAT RAM   | 78    |
| YOGANSHU | 11  | ASHISH     | 1     |
| YOGANSH  | 12  | ASHISH     | 1     |
| YOGESH   | 13  | ASHISH     | 1     |
| HIMANSHU | 14  | ASHISH     | 1     |
| HANSRAJ  | 15  | ASHISH     | 1     |
| HEMA     | 16  | ANSHIKA    | 1     |
| VINAY    | 17  | ANSHITA    | 1     |
| VINII    | 18  | YOGITA     | 1     |
| VISHAKHA | 19  | AMIT       | 1     |
| ASHISH   | 2   | ASHISH     | 1     |
| king     | 20  | ARUNITA    | 1     |
| VIKAS    | 21  | ANSHITA    | 1     |
| RAMESH   | 22  | MUSKAN     | 1     |
| AMIT     | 3   | ASHISH     | 1     |
| ARUN     | 4   | ASHISH     | 1     |
| ARUNITA  | 5   | ASHISH     | 1     |
| ANSHIKA  | 6   | ASHISH     | 1     |
| ANSHITA  | 7   | ASHISH     | 1     |
| JGAT     | 76  | JGAT       | 76    |
| JGAT RAM | 78  | JGAT RAM   | 78    |
| ANSHIMAN | 79  | ANSHIMAN   | 79    |
| MUSKAN   | 8   | ASHISH     | 1     |
| ANSHI    | 80  | ANSHIMAN   | 79    |
| YOGITA   | 9   | ASHISH     | 1     |
+----------+-----+------------+-------+
27 rows in set (0.034 sec)
```

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 E.Ename,E.Dno,E.Salary FROM EMPLOYEE AS E WHERE(Salary,Dno) IN (SELECT Salary,Dno FROM EMPLOYEE AS D WHERE COMMISSION!=0 AND E.Eno!=D.Eno);

```
MariaDB [emp_dept]> SELECT E.ENAME,E.DNO,E.SALARY FROM EMPLOYEE AS E WHERE(SALARY,DNO) IN (SELECT SALARY,DNO FROM EMPLOYEE AS D WHERE COMMISSION!=0 AND E.ENO!=D.ENO);
+----------+------+----------+
| ENAME    | DNO  | SALARY   |
+----------+------+----------+
| ASHISH   |   70 | 12000.00 |
| blake    |   70 | 99999.99 |
| YOGANSHU |   70 | 99999.99 |
| HIMANSHU |   70 | 99999.99 |
| HANSRAJ  |   70 | 99999.99 |
| HEMA     |   70 | 99999.99 |
| VINAY    |   70 | 99999.99 |
| VINII    |   70 | 99999.99 |
| VISHAKHA |   70 | 99999.99 |
| ASHISH   |   70 | 12000.00 |
| king     |   70 | 99999.99 |
+----------+------+----------+
11 rows in set (0.009 sec)
```

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

SELECT Ename,REPEAT("*",FLOOR(Salary/1000)) AS Salary FROM EMPLOYEE;

```
MariaDB [emp_dept]> SELECT ENAME,REPEAT("*",FLOOR(SALARY/1000)) AS SALARY FROM EMPLOYEE;
+----------+-----------------------------------------------------------------------------------------------------+
| ENAME    | SALARY                                                                                              |
+----------+-----------------------------------------------------------------------------------------------------+
| ASHISH   | ***********                                                                                         |
| blake    | ***************************************************************************************************** |
| JGAT RAM |                                                                                                     |
| YOGANSHU | ***************************************************************************************************** |
| YOGANSH  | ***********                                                                                         |
| YOGESH   | ***********                                                                                         |
| HIMANSHU | ***************************************************************************************************** |
| HANSRAJ  | ***************************************************************************************************** |
| HEMA     | ***************************************************************************************************** |
| VINAY    | ***************************************************************************************************** |
| VINII    | ***************************************************************************************************** |
| VISHAKHA | ***************************************************************************************************** |
| ASHISH   | ***********                                                                                         |
| king     | ***************************************************************************************************** |
| VIKAS    | ********************                                                                                |
| RAMESH   | ***************************************************************************************************** |
| AMIT     | ********************                                                                                |
| ARUN     | **                                                                                                  |
| ARUNITA  | **                                                                                                  |
| ANSHIKA  |                                                                                                     |
| ANSHITA  | **                                                                                                  |
| JGAT     | ***************************************************************************************************** |
| JGAT RAM |                                                                                                     |
| ANSHIMAN | *                                                                                                   |
| MUSKAN   | *                                                                                                   |
| ANSHI    | *                                                                                                   |
| YOGITA   | **************                                                                                      |
+----------+-----------------------------------------------------------------------------------------------------+
27 rows in set (0.005 sec)
```

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

SELECT MAX(Salary) AS HIGHEST SALARY,MIN(Salary) AS LOWEST SALARY,SUM(Salary)AS SUM_OF)SALARY,AVG(Salary)AS AVERAGE_SALARY

FROM EMPLOYEE;

```
MariaDB [emp_dept]> SELECT MAX(SALARY) AS HIGHEST_SALARY,MIN(SALARY) AS LOWEST_SALARY,SUM(SALARY) AS SUM_OF_SALARY,AVG(SALARY) AS AVERAGE_SALARY FROM EMPLOYEE;
+----------------+--------------+--------------+----------------+
| HIGHEST_SALARY | LOWEST_SALARY | SUM_OF_SALARY | AVERAGE_SALARY |
+----------------+--------------+--------------+----------------+
|       99999.99 |       122.00 |    1219663.89 |   45172.736667 |
+----------------+--------------+--------------+----------------+
1 row in set (0.003 sec)
```

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

SELECT Job_Type,COUNT(Eno) FROM EMPLOYEE GROUP BY Job_Type;

```
MariaDB [emp_dept]> SELECT JOB_TYPE,COUNT(ENO) FROM EMPLOYEE GROUP BY JOB_TYPE;
+---------------+------------+
| JOB_TYPE      | COUNT(ENO) |
+---------------+------------+
| ASSISTANT     |          4 |
| CO ASSISTANT  |          1 |
| HELPER        |          3 |
| LAB ATTENDANT |          1 |
| MANAGER       |          1 |
| PRINCIPAL     |          3 |
| PROFESSOR     |          3 |
| STUDENT       |          5 |
| TEACHER       |          1 |
| WORKER        |          5 |
+---------------+------------+
10 rows in set (0.086 sec)
```

31. Query to display the total number of supervisors without listing their names.

SELECT COUNT(DISTINCT S_Eno) FROM EMPLOYEE;

```
MariaDB [emp_dept]> SELECT COUNT(DISTINCT S_ENO) FROM EMPLOYEE;
+------------------------+
| COUNT(DISTINCT S_ENO) |
+------------------------+
|                     11 |
+------------------------+
1 row in set (0.005 sec)
```

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

SELECT DEPARTMENT.Dname,DEPARTMENT.LOCATION,COUNT(EMPLOYEE.Eno)AS NO_OF_EMPLOYEES,AVG(EMPLOYEE.Salary)AS AVG_SALARY FROM EMPLOYEE,DEPARTMENT

WHERE EMPLOYEE.DNO=DEPARTMENT.DNO GROUP BY EMPLOYEE.DNO;

```
MariaDB [emp_dept]> SELECT DEPARTMENT.DNAME,DEPARTMENT.LOCATION,COUNT(EMPLOYEE.ENO)AS NO_OF_EMPLOYEES,AVG(EMPLOYEE.SALARY)AS AVG_SALARY FROM EMPLOYEE,DEPARTMENT WHERE EMPLO
YEE.DNO=DEPARTMENT.DNO GROUP BY EMPLOYEE.DNO;
+-----------+-----------+----------------+-------------+
| DNAME     | LOCATION  | NO_OF_EMPLOYEES | AVG_SALARY  |
+-----------+-----------+----------------+-------------+
| PHYSICS   | PANIPAT   |              3 | 33785.330000 |
| ACCOUNTS  | SHIMLA    |             22 | 46281.177727 |
| HISTORY   | MANALI    |              1 | 99999.990000 |
| ECONOMICS | CHANDIGARH |              1 |   122.000000 |
+-----------+-----------+----------------+-------------+
4 rows in set (0.031 sec)
```

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

SELECT Ename,Hire_date FROM EMPLOYEE WHERE Dno IN(SELECT Dno FROM EMPLOYEE WHERE Ename='BLAKE');

```
MariaDB [emp_dept]> SELECT ENAME,HIRE_DATE FROM EMPLOYEE WHERE DNO IN(SELECT DNO FROM EMPLOYEE WHERE ENAME='BLAKE');
+----------+------------+
| ENAME    | HIRE_DATE  |
+----------+------------+
| ASHISH   | 1996-11-12 |
| blake    | 1981-01-21 |
| YOGANSHU | 0000-00-00 |
| YOGANSH  | 0000-00-00 |
| YOGESH   | 0000-00-00 |
| HIMANSHU | 0000-00-00 |
| HANSRAJ  | 2011-11-15 |
| HEMA     | 2011-10-15 |
| VINAY    | 2011-10-18 |
| VINII    | 2010-10-18 |
| VISHAKHA | 2010-10-19 |
| ASHISH   | 1996-11-12 |
| king     | 2010-10-09 |
| VIKAS    | 2010-10-19 |
| AMIT     | 1996-01-12 |
| ARUN     | 1995-01-12 |
| ARUNITA  | 1995-01-11 |
| ANSHIKA  | 2003-01-11 |
| ANSHITA  | 2003-01-11 |
| ANSHIMAN | 2020-10-10 |
| MUSKAN   | 2003-01-21 |
| YOGITA   | 2002-01-21 |
+----------+------------+
22 rows in set (0.007 sec)
```

34. Query to display the Employee No. And Name for all employees who earn more than the average salary.

SELECT Eno,Ename FROM EMPLOYEE WHERE Salary>(SELECT AVG(Salary)FROM EMPLOYEE);

```
MariaDB [emp_dept]> SELECT ENO,ENAME FROM EMPLOYEE WHERE SALARY>(SELECT AVG(SALARY)FROM EMPLOYEE);
+-----+----------+
| ENO | ENAME    |
+-----+----------+
| 10  | blake    |
| 11  | YOGANSHU |
| 14  | HIMANSHU |
| 15  | HANSRAJ  |
| 16  | HEMA     |
| 17  | VINAY    |
| 18  | VINII    |
| 19  | VISHAKHA |
| 20  | king     |
| 22  | RAMESH   |
| 76  | JGAT     |
+-----+----------+
11 rows in set (0.003 sec)
```

35. Query to display Employee Number and Name for all employees who work in a department with any employee whose name contains a ‘T’.

SELECT Eno,Ename FROM EMPLOYEE WHERE Dno IN(SELECT Dno FROM EMPLOYEE WHERE Ename LIKE'%T%');

```
MariaDB [emp_dept]> SELECT ENO,ENAME FROM EMPLOYEE WHERE DNO IN(SELECT DNO FROM EMPLOYEE WHERE ENAME LIKE '%T%');
+-----+----------+
| ENO | ENAME    |
+-----+----------+
| 1   | ASHISH   |
| 10  | blake    |
| 100 | JGAT RAM |
| 11  | YOGANSHU |
| 12  | YOGANSH  |
| 13  | YOGESH   |
| 14  | HIMANSHU |
| 15  | HANSRAJ  |
| 16  | HEMA     |
| 17  | VINAY    |
| 18  | VINII    |
| 19  | VISHAKHA |
| 2   | ASHISH   |
| 20  | king     |
| 21  | VIKAS    |
| 3   | AMIT     |
| 4   | ARUN     |
| 5   | ARUNITA  |
| 6   | ANSHIKA  |
| 7   | ANSHITA  |
| 76  | JGAT     |
| 78  | JGAT RAM |
| 79  | ANSHIMAN |
| 8   | MUSKAN   |
| 80  | ANSHI    |
| 9   | YOGITA   |
+-----+----------+
26 rows in set (0.002 sec)
```

36. Query to display the names and salaries of all employees who report to supervisor named ‘King’

SELECT Ename,Salary FROM EMPLOYEE WHERE S_Eno IN(SELECT Eno FROM EMPLOYEE WHERE Ename='KING');

```
MariaDB [emp_dept]> SELECT ENAME,SALARY FROM EMPLOYEE WHERE S_ENO IN(SELECT ENO FROM EMPLOYEE WHERE ENAME='KING');
+----------+----------+
| ENAME    | SALARY   |
+----------+----------+
| JGAT RAM |   122.00 |
| king     | 99999.99 |
| king     |   122.00 |
+----------+----------+
3 rows in set (0.001 sec)
```

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

SELECT EMPLOYEE.Dno,EMPLOYEE.Ename,EMPLOYEE.Job_type FROM EMPLOYEE,DEPARTMENT WHERE DEPARTMENT.Dname='SALES'AND DEPARTMENT.Dno=EMPLOYEE.Dno;

```
MariaDB [emp_dept]> SELECT EMPLOYEE.DNO,EMPLOYEE.ENAME,EMPLOYEE.JOB_TYPE FROM EMPLOYEE,DEPARTMENT WHERE DEPARTMENT.DNAME='sales'AND DEPARTMENT.DNO=EMPLOYEE.DNO;
+------+--------+----------+
| DNO  | ENAME  | JOB_TYPE |
+------+--------+----------+
|  120 | RAMESH | HELPER   |
+------+--------+----------+
1 row in set (0.001 sec)
```

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

SELECT EMPLOYEE.Ename,DEPARTMENT.Dname FROM EMPLOYEE,DEPARTMENT WHERE YEAR(CURDATE())- YEAR(Hire_date)>=20 AND EMPLOYEE.DNO=DEPARTMENT.DNO;

```
MariaDB [emp_dept]> SELECT EMPLOYEE.ENAME,DEPARTMENT.DNAME FROM EMPLOYEE,DEPARTMENT WHERE YEAR(CURDATE())-YEAR(HIRE_DATE)>=20 AND EMPLOYEE.DNO=DEPARTMENT.DNO;
+----------+----------+
| ENAME    | DNAME    |
+----------+----------+
| ASHISH   | ACCOUNTS |
| king     | ACCOUNTS |
| YOGANSHU | ACCOUNTS |
| YOGANSH  | ACCOUNTS |
| YOGESH   | ACCOUNTS |
| HIMANSHU | ACCOUNTS |
| ASHISH   | ACCOUNTS |
| AMIT     | ACCOUNTS |
| ARUN     | ACCOUNTS |
| ARUNITA  | ACCOUNTS |
| YOGITA   | ACCOUNTS |
+----------+----------+
11 rows in set (0.001 sec)
```

39. Display total number of departments at each location

SELECT COUNT(DISTINCT DNO),LOCATION FROM DEPARTMENT GROUP BY LOCATION;

```
MariaDB [emp_dept]> select count(distinct dno),location from department group by location;
+---------------------+--------------+
| count(distinct dno) | location     |
+---------------------+--------------+
|                   3 | agra         |
|                   1 | CHANDIGARH   |
|                   1 | DELHI        |
|                   1 | KULLU        |
|                   1 | MANALI       |
|                   1 | PANIPAT      |
|                   1 | PRATAP NAGAR |
|                   1 | PUNJAB       |
|                   1 | SHAHBAD      |
|                   1 | SHIMLA       |
|                   1 | YAMUNA NAGAR |
+---------------------+--------------+
11 rows in set (0.001 sec)
```

40. Find the department name in which at least 20 employees work in.

SELECT Dname FROM DEPARTMENT WHERE Dno IN (SELECT Dno FROM EMPLOYEE GROUP BY Dno HAVING COUNT(Eno)>=20);

```
MariaDB [emp_dept]> SELECT DNAME FROM DEPARTMENT WHERE DNO IN (SELECT DNO FROM EMPLOYEE GROUP BY DNO HAVING COUNT(ENO)>=20);
+----------+
| DNAME    |
+----------+
| ACCOUNTS |
+----------+
1 row in set (0.001 sec)
```

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

SELECT Ename FROM EMPLOYEE WHERE (Eno) NOT IN (SELECT S_Eno FROM EMPLOYEE WHERE S_Eno IS NOT NULL) OR (Eno) IN (SELECT S_Eno FROM EMPLOYEE GROUP BY S_Eno HAVING COUNT(Eno)>5);

```
ariaDB [emp_dept]> SELECT ENAME FROM EMPLOYEE WHERE ENO NOT IN (SELECT S_ENO FROM EMPLOYEE WHERE S_ENO IS NOT NULL) OR ENO IN (SELECT S_ENO FROM EMPLOYEE GROUP BY S_ENO HA
ING COUNT(ENO)>5);
+----------+
| ENAME    |
+----------+
| ASHISH   |
| king     |
| JGAT RAM |
| YOGANSHU |
| YOGANSH  |
| YOGESH   |
| HIMANSHU |
| HANSRAJ  |
| HEMA     |
| VINAY    |
| VINII    |
| VISHAKHA |
| ASHISH   |
| king     |
| VIKAS    |
| RAMESH   |
| ARUN     |
| king     |
+----------+
18 rows in set (0.003 sec)
```

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

SELECT MAX(MYJOB),MIN(MYJOB) FROM (SELECT Job_type,COUNT(Job_type) AS MYJOB FROM EMPLOYEE GROUP BY Job_type) EMPLOYEE;