

DBMS PRACTICALS

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

```
MariaDB [emp_dept]> show tables;
+-----+
| Tables_in_emp_dept |
+-----+
| department          |
| employee            |
+-----+
2 rows in set (0.002 sec)
```

```
MariaDB [emp_dept]> 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	
supervisionENO	char(3)	YES		NULL	
Hire_date	date	NO		NULL	
Dno	int(3)	YES	MUL	NULL	
Commission	decimal(10,2)	YES		NULL	
Salary	decimal(7,2)	NO		NULL	

8 rows in set (1.303 sec)

```
MariaDB [emp_dept]> desc department;
```

Field	Type	Null	Key	Default	Extra
dno	int(3)	NO	PRI	NULL	
dname	varchar(50)	YES		NULL	
location	varchar(50)	YES		New Delhi	

3 rows in set (0.065 sec)

```
MariaDB [emp_dept]> select* from employee;
```

eno	ename	job_type	supervisonENO	Hire_date	Dno	Commission	Salary
736	Smith	Clerk	790	1981-12-17	20	0.00	1000.00
749	Allan	Sales_man	769	1981-02-20	30	300.00	2000.00
752	Ward	Sales_man	769	1981-02-22	30	500.00	1300.00
756	Jones	Manager	783	1981-04-02	20	0.00	2300.00
765	Martin	Sales_man	784	1981-04-22	30	1400.00	1250.00
769	Blake	Manager	783	1981-05-01	30	0.00	2870.00
778	Clark	Manager	783	1981-06-09	10	0.00	2900.00
783	King	President	NULL	1981-11-17	10	0.00	2950.00
784	Turner	Sales_man	769	1981-09-08	30	0.00	1450.00
787	Adams	Clerk	778	1983-01-12	20	0.00	1150.00
788	Scott	Analyst	756	1982-12-09	20	0.00	2850.00
790	James	Clerk	769	1981-12-03	30	0.00	950.00
792	Ford	Analyst	756	1981-12-03	20	0.00	2600.00
793	Miller	Clerk	788	1982-01-23	40	0.00	1300.00

```
14 rows in set (0.366 sec)
```

```
MariaDB [emp_dept]> select* from department;
```

dno	dname	location
10	Accounting	New York
20	Research	Dallas
30	Sales	Chicago
40	Operation	Boston
50	Purchase	New Delhi

```
5 rows in set (0.001 sec)
```

Query List

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

```
MariaDB [emp_dept]> select ename,job_type,hire_date,eno from employee order by eno;
```

ename	job_type	hire_date	eno
Smith	Clerk	1981-12-17	736
Allan	Sales_man	1981-02-20	749
Ward	Sales_man	1981-02-22	752
Jones	Manager	1981-04-02	756
Martin	Sales_man	1981-04-22	765
Blake	Manager	1981-05-01	769
Clark	Manager	1981-06-09	778
King	President	1981-11-17	783
Turner	Sales_man	1981-09-08	784
Adams	Clerk	1983-01-12	787
Scott	Analyst	1982-12-09	788
James	Clerk	1981-12-03	790
Ford	Analyst	1981-12-03	792
Miller	Clerk	1982-01-23	793

```
14 rows in set (0.062 sec)
```

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

```
MariaDB [emp_dept]> select distinct(job_type) from employee;
+-----+
| job_type |
+-----+
| Clerk    |
| Sales_man|
| Manager  |
| President|
| Analyst  |
+-----+
5 rows in set (0.059 sec)
```

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

```
MariaDB [emp_dept]> select concat(ename,",",job_type) as seperatejob from employee;
+-----+
| seperatejob |
+-----+
| Smith,Clerk |
| Allan,Sales_man |
| Ward,Sales_man |
| Jones,Manager |
| Martin,Sales_man |
| Blake,Manager |
| Clark,Manager |
| King,President |
| Turner,Sales_man |
| Adams,Clerk |
| Scott,Analyst |
| James,Clerk |
| Ford,Analyst |
| Miller,Clerk |
+-----+
14 rows in set (0.161 sec)
```

4. Query to display all the data from the Employee Table. Separate each Column by a command name the said column as THE_OUTPUT.

```
MariaDB [emp_dept]> select concat(eno,",",ename,",",job_type,",",supervisoneno,",",hire_date,",",dno,",",commission,",",salary) as THE_OUTPUT from employee;
+-----+
| THE_OUTPUT |
+-----+
| 736,Smith,Clerk,790,1981-12-17,20,0.00,1000.00 |
| 749,Allan,Sales_man,769,1981-02-20,30,300.00,2000.00 |
| 752,Ward,Sales_man,769,1981-02-22,30,500.00,1300.00 |
| 756,Jones,Manager,783,1981-04-02,20,0.00,2300.00 |
| 765,Martin,Sales_man,784,1981-04-22,30,1400.00,1250.00 |
| 769,Blake,Manager,783,1981-05-01,30,0.00,2870.00 |
| 778,Clark,Manager,783,1981-06-09,10,0.00,2900.00 |
| NULL |
| 784,Turner,Sales_man,769,1981-09-08,30,0.00,1450.00 |
| 787,Adams,Clerk,778,1983-01-12,20,0.00,1150.00 |
| 788,Scott,Analyst,756,1982-12-09,20,0.00,2850.00 |
| 790,James,Clerk,769,1981-12-03,30,0.00,950.00 |
| 792,Ford,Analyst,756,1981-12-03,20,0.00,2600.00 |
| 793,Miller,Clerk,788,1982-01-23,40,0.00,1300.00 |
+-----+
14 rows in set (0.001 sec)
```

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

```
MariaDB [emp_dept]> select ename, salary from employee where salary > 2850;
+-----+-----+
| ename | salary |
+-----+-----+
| Blake | 2870.00 |
| Clark | 2900.00 |
| King  | 2950.00 |
+-----+-----+
3 rows in set (0.063 sec)
```

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

```
MariaDB [emp_dept]> select ename, dno from employee where empno = 79;
Empty set (0.032 sec)
```

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

```
MariaDB [emp_dept]> select ename, salary from employee where salary not between 1500 and 2850;
+-----+-----+
| ename | salary |
+-----+-----+
| Smith | 1000.00 |
| Ward  | 1300.00 |
| Martin | 1250.00 |
| Blake | 2870.00 |
| Clark | 2900.00 |
| King  | 2950.00 |
| Turner | 1450.00 |
| Adams | 1150.00 |
| James | 950.00  |
| Miller | 1300.00 |
+-----+-----+
10 rows in set (0.028 sec)
```

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.

```
MariaDB [emp_dept]> select ename, dno from employee where dno in (10,30) order by ename;
+-----+-----+
| ename | dno |
+-----+-----+
| Allan | 30  |
| Blake | 30  |
| Clark | 10  |
| James | 30  |
| King  | 10  |
| Martin | 30  |
| Turner | 30  |
| Ward  | 30  |
+-----+-----+
8 rows in set (0.101 sec)
```

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

```
MariaDB [emp_dept]> select ename , hire_date from employee where hire_date like '1981%';
```

ename	hire_date
Smith	1981-12-17
Allan	1981-02-20
Ward	1981-02-22
Jones	1981-04-02
Martin	1981-04-22
Blake	1981-05-01
Clark	1981-06-09
King	1981-11-17
Turner	1981-09-08
James	1981-12-03
Ford	1981-12-03

```
11 rows in set (0.028 sec)
```

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

```
MariaDB [emp_dept]> select ename , job_type from employee where supervisoneno is null;
```

ename	job_type
King	President

```
1 row in set (0.100 sec)
```

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

```
MariaDB [emp_dept]> select ename, salary , commission from employee where commission is not null;
```

ename	salary	commission
Smith	1000.00	0.00
Allan	2000.00	300.00
Ward	1300.00	500.00
Jones	2300.00	0.00
Martin	1250.00	1400.00
Blake	2870.00	0.00
Clark	2900.00	0.00
King	2950.00	0.00
Turner	1450.00	0.00
Adams	1150.00	0.00
Scott	2850.00	0.00
James	950.00	0.00
Ford	2600.00	0.00
Miller	1300.00	0.00

```
14 rows in set (0.001 sec)
```

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

```
MariaDB [emp_dept]> select * from employee order by salary and commission desc;
```

eno	ename	job_type	supervisonENO	Hire_date	Dno	Commission	Salary
749	Allan	Sales_man	769	1981-02-20	30	300.00	2000.00
752	Ward	Sales_man	769	1981-02-22	30	500.00	1300.00
765	Martin	Sales_man	784	1981-04-22	30	1400.00	1250.00
736	Smith	Clerk	790	1981-12-17	20	0.00	1000.00
792	Ford	Analyst	756	1981-12-03	20	0.00	2600.00
790	James	Clerk	769	1981-12-03	30	0.00	950.00
788	Scott	Analyst	756	1982-12-09	20	0.00	2850.00
787	Adams	Clerk	778	1983-01-12	20	0.00	1150.00
784	Turner	Sales_man	769	1981-09-08	30	0.00	1450.00
783	King	President	NULL	1981-11-17	10	0.00	2950.00
778	Clark	Manager	783	1981-06-09	10	0.00	2900.00
769	Blake	Manager	783	1981-05-01	30	0.00	2870.00
756	Jones	Manager	783	1981-04-02	20	0.00	2300.00
793	Miller	Clerk	788	1982-01-23	40	0.00	1300.00

```
14 rows in set (0.132 sec)
```

13. Query to display Name of all the employees where the third letter of their name is 'A'.

```
MariaDB [emp_dept]> select ename from employee where ename like '__A%';
```

ename
Blake
Clark
Adams

```
3 rows 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 Manger's Employee No = 778.

```
MariaDB [emp_dept]> select ename from employee where (ename like "%r%r%" or ename like "%a%a%") and (dno = 30 or supervisoneno = 778);
```

ename
Allan
Turner
Adams

```
3 rows in set (0.169 sec)
```

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

```
MariaDB [emp_dept]> select ename , salary , commission from employee where (1.05*salary)<commission;
```

ename	salary	commission
Martin	1250.00	1400.00

```
1 row in set (0.001 sec)
```

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

```
MariaDB [emp_dept]> select curdate() as currentdate , dayname(curdate()) as currentday;
+-----+-----+
| currentdate | currentday |
+-----+-----+
| 2021-02-20 | Saturday  |
+-----+-----+
1 row in set (0.230 sec)
```

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

```
MariaDB [emp_dept]> select ename,hire_date,adddate(six_month_after,mod(9-dayofweek(six_month_after),7)) as salary_review_date from (select ename,hire_date, date((period_add(extract(year_month from hire_date),6)*100)+1) as six_month_after from employee)a;
+-----+-----+-----+
| ename | hire_date | salary_review_date |
+-----+-----+-----+
| Smith | 1981-12-17 | 1982-06-07         |
| Allan | 1981-02-20 | 1981-08-03         |
| Ward  | 1981-02-22 | 1981-08-03         |
| Jones | 1981-04-02 | 1981-10-05         |
| Martin | 1981-04-22 | 1981-10-05         |
| Blake | 1981-05-01 | 1981-11-02         |
| Clark | 1981-06-09 | 1981-12-07         |
| King  | 1981-11-17 | 1982-05-03         |
| Turner | 1981-09-08 | 1982-03-01         |
| Adams | 1983-01-12 | 1983-07-04         |
| Scott | 1982-12-09 | 1983-06-06         |
| James | 1981-12-03 | 1982-06-07         |
| Ford  | 1981-12-03 | 1982-06-07         |
| Miller | 1982-01-23 | 1982-07-05         |
+-----+-----+-----+
14 rows in set (0.001 sec)
```

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

```
MariaDB [emp_dept]> select e.ename , timestampdiff(month,hire_date,curdate()) as number_of_months from employee e, department d where e.dno = d.dno and dname ="sales";
+-----+-----+
| ename | number_of_months |
+-----+-----+
| Allan | 480               |
| Ward  | 479               |
| Martin | 477               |
| Blake | 477               |
| Turner | 473               |
| James | 470               |
+-----+-----+
6 rows in set (0.001 sec)
```

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.

```

MariaDB [emp_dept]> select concat(ename," earns ",salary," monthly but wants ",(3*salary)) as 'Dream Salary' from employee;
+-----+-----+
| Dream Salary |
+-----+-----+
| Smith earns 1000.00 monthly but wants 3000.00 |
| Allan earns 2000.00 monthly but wants 6000.00 |
| Ward earns 1300.00 monthly but wants 3900.00 |
| Jones earns 2300.00 monthly but wants 6900.00 |
| Martin earns 1250.00 monthly but wants 3750.00 |
| Blake earns 2870.00 monthly but wants 8610.00 |
| Clark earns 2900.00 monthly but wants 8700.00 |
| King earns 2950.00 monthly but wants 8850.00 |
| Turner earns 1450.00 monthly but wants 4350.00 |
| Adams earns 1150.00 monthly but wants 3450.00 |
| Scott earns 2850.00 monthly but wants 8550.00 |
| James earns 950.00 monthly but wants 2850.00 |
| Ford earns 2600.00 monthly but wants 7800.00 |
| Miller earns 1300.00 monthly but wants 3900.00 |
+-----+-----+
14 rows in set (0.108 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'.

```

MariaDB [emp_dept]> select CONCAT(UCASE(LEFT(ename, 1)), lower(SUBSTRING(ename, 2))) as Name , length(ename) from employee where ename like 'j%' or ename like 'a%' or ename like 'm%';
+-----+-----+
| Name | length(ename) |
+-----+-----+
| Allan | 5 |
| Jones | 5 |
| Martin | 6 |
| Adams | 5 |
| James | 5 |
| Miller | 6 |
+-----+-----+
6 rows in set (0.034 sec)

```

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


```
MariaDB [emp_dept]> select ename, hire_date , dayname(hire_date) , dayofweek(hire_date) from employee;
```

ename	hire_date	dayname(hire_date)	dayofweek(hire_date)
Smith	1981-12-17	Thursday	5
Allan	1981-02-20	Friday	6
Ward	1981-02-22	Sunday	1
Jones	1981-04-02	Thursday	5
Martin	1981-04-22	Wednesday	4
Blake	1981-05-01	Friday	6
Clark	1981-06-09	Tuesday	3
King	1981-11-17	Tuesday	3
Turner	1981-09-08	Tuesday	3
Adams	1983-01-12	Wednesday	4
Scott	1982-12-09	Thursday	5
James	1981-12-03	Thursday	5
Ford	1981-12-03	Thursday	5
Miller	1982-01-23	Saturday	7

```
14 rows in set (0.037 sec)
```

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

```
MariaDB [emp_dept]> select ename , dname , e.dno from employee e,department d where e.dno=d.dno;
```

ename	dname	dno
Clark	Accounting	10
King	Accounting	10
Smith	Research	20
Jones	Research	20
Adams	Research	20
Scott	Research	20
Ford	Research	20
Allan	Sales	30
Ward	Sales	30
Martin	Sales	30
Blake	Sales	30
Turner	Sales	30
James	Sales	30
Miller	Operation	40

```
14 rows in set (0.039 sec)
```

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

```
MariaDB [emp_dept]> select distinct(job_type) from employee where dno = 30;
```

job_type
Sales_man
Manager
Clerk

```
3 rows in set (0.001 sec)
```

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

```
MariaDB [emp_dept]> select ename , dname from employee e,department d where e.dno=d.dno and ename like "%a%";
```

ename	dname
Clark	Accounting
Adams	Research
Allan	Sales
Ward	Sales
Martin	Sales
Blake	Sales
James	Sales

```
7 rows in set (0.001 sec)
```

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

```
MariaDB [emp_dept]> select ename, job_type, e.dno , dname from employee e,department d where e.dno=d.dno and location = "dallas";
```

ename	job_type	dno	dname
Smith	Clerk	20	Research
Jones	Manager	20	Research
Adams	Clerk	20	Research
Scott	Analyst	20	Research
Ford	Analyst	20	Research

```
5 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.

```
MariaDB [emp_dept]> select e1.ename , e1.eno , e1.supervisoneno,e2.ename from employee e1,employee e2 where e1.supervisoneno=e2.eno or (e1.supervisoneno is null and e2.supervisoneno is null);
```

ename	eno	supervisoneno	ename
Scott	788	756	Jones
Ford	792	756	Jones
Allan	749	769	Blake
Ward	752	769	Blake
Turner	784	769	Blake
James	790	769	Blake
Adams	787	778	Clark
Jones	756	783	King
Blake	769	783	King
Clark	778	783	King
King	783	NULL	King
Martin	765	784	Turner
Miller	793	788	Scott
Smith	736	790	James

```
14 rows in set (0.105 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.

```
MariaDB [emp_dept]> select e1.ename , e1.dno , e1.salary, e2.ename from employee e1,employee e2 where e1.eno!=e2.eno and e1.dno = e2.dno and e1.salary=e2.salary;
```

```
Empty set (0.027 sec)
```

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

```
MariaDB [emp_dept]> select ename , repeat('*',salary/100) as "=$100" from employee;
```

ename	=\$100
Smith	* * * * *
Allan	* * * * * * * * * * * * * * * * * *
Ward	* * * * * * * * * * * * * *
Jones	* * * * * * * * * * * * * * * * * * *
Martin	* * * * * * * * * * * *
Blake	* * * * * * * * * * * * * * * * * * * *
Clark	* * * * * * * * * * * * * * * * * * * *
King	* * * * * * * * * * * * * * * * * * * *
Turner	* * * * * * * * * * * * *
Adams	* * * * * * * * * * *
Scott	* * * * * * * * * * * * * * * * * * * *
James	* * * * * * * * *
Ford	* * * * * * * * * * * * * * * * * * *
Miller	* * * * * * * * * * *

```
14 rows in set (0.054 sec)
```

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

```
MariaDB [emp_dept]> select max(salary) as highest, min(salary) as lowest, sum(salary) as sum, avg(salary) as average from employee;
```

highest	lowest	sum	average
2950.00	950.00	26870.00	1919.285714

```
1 row in set (0.093 sec)
```

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

```
MariaDB [emp_dept]> select job_type, count(*) as no_of_employees from employee group by job_type;
```

job_type	no_of_employees
Analyst	2
Clerk	4
Manager	3
President	1
Sales_man	4

```
5 rows in set (0.021 sec)
```

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

```
MariaDB [emp_dept]> select count(*) as no_of_supervisor from employee where eno in (select supervisoneno from employee);
```

no_of_supervisor
7

```
1 row in set (0.048 sec)
```

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

```
MariaDB [emp_dept]> select dname , location, count(*) as no_of_employee, AVG(salary) as average_salary from employee e,
department d where e.dno = d.dno group by dname;
```

dname	location	no_of_employee	average_salary
Accounting	New York	2	2925.000000
Operation	Boston	1	1300.000000
Research	Dallas	5	1980.000000
Sales	Chicago	6	1636.666667

4 rows in set (0.132 sec)

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

```
MariaDB [emp_dept]> select ename, hire_date from employee where dno in (select dno from employee where ename="Blake");
```

ename	hire_date
Allan	1981-02-20
Ward	1981-02-22
Martin	1981-04-22
Blake	1981-05-01
Turner	1981-09-08
James	1981-12-03

6 rows in set (0.001 sec)

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

```
MariaDB [emp_dept]> select eno , ename from employee where salary>(select AVG(salary) from employee);
```

eno	ename
749	Allan
756	Jones
769	Blake
778	Clark
783	King
788	Scott
792	Ford

7 rows in set (0.032 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'.

```
MariaDB [emp_dept]> select eno, ename from employee where dno in (select dno from employee where ename like "%t%");
```

eno	ename
736	Smith
749	Allan
752	Ward
756	Jones
765	Martin
769	Blake
784	Turner
787	Adams
788	Scott
790	James
792	Ford

11 rows in set (0.001 sec)

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

```
MariaDB [emp_dept]> select ename, salary from employee where supervisoreno = (select eno from employee where ename = "king");
```

ename	salary
Jones	2300.00
Blake	2870.00
Clark	2900.00

3 rows in set (0.001 sec)

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

```
MariaDB [emp_dept]> select e.dno, ename, job_type from employee e, department d where e.dno=d.dno and d.dno = (select dno from department where dname = "sales");
```

dno	ename	job_type
30	Allan	Sales_man
30	Ward	Sales_man
30	Martin	Sales_man
30	Blake	Manager
30	Turner	Sales_man
30	James	Clerk

6 rows in set (0.058 sec)

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

```
MariaDB [emp_dept]> select e.ename , d.dname from employee e,department d where e.dno=d.dno and timestampdiff(year,hire_date,curdate())>20;
```

ename	dname
Clark	Accounting
King	Accounting
Smith	Research
Jones	Research
Adams	Research
Scott	Research
Ford	Research
Allan	Sales
Ward	Sales
Martin	Sales
Blake	Sales
Turner	Sales
James	Sales
Miller	Operation

```
14 rows in set (0.001 sec)
```

39. Display total number of departments at each location

```
MariaDB [emp_dept]> select location, count(*) from department group by location;
```

location	count(*)
Boston	1
Chicago	1
Dallas	1
New Delhi	1
New York	1

```
5 rows in set (0.001 sec)
```

40. Find the department name in which at least 5 employees work in.

```
MariaDB [emp_dept]> select dname from department where dno in (select dno from employee group by dno having count(*)>5);
```

dname
Sales

```
1 row in set (0.107 sec)
```

41. Query to find the employee' name who is not supervisor and name of supervisor supervising more than 3 employees.

```

MariaDB [emp_dept]> select ename from employee where eno in (select supervisoneno from employee where supervisoneno is not null group by supervisoneno having count(*)>3) or eno not in (select supervisoneno from employee where supervisoneno is not null group by supervisoneno);
+-----+
| ename |
+-----+
| Smith |
| Allan |
| Ward  |
| Martin|
| Blake |
| Adams |
| Ford  |
| Miller|
+-----+
8 rows in set (0.002 sec)

```

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

```

MariaDB [emp_dept]> select job_type from employee group by job_type having count(*) = (select max(mycount) from (select count(*) as mycount from employee group by job_type)a) or count(*)=(select min(mycount) from (select count(*) as mycount from employee group by job_type)a);
+-----+
| job_type |
+-----+
| Clerk    |
| President|
| Sales_man|
+-----+
3 rows in set (0.005 sec)

```

THANK YOU