

```
mysql> CREATE TABLE EMPLOYEE (ENO int, ENAME varchar(20), JOB varchar(20), SALARY int, DNO int, GRADE char(10));
Query OK, 0 rows affected (1.24 sec)
```

```
mysql> INSERT INTO EMPLOYEE VALUES
-> (1, 'ABC', 'CLERK', 5000, 10, 'A'),
-> (2, 'BCD', 'MANAGER', 100000, 30, 'C'),
-> (3, 'CDE', 'IT PROFESSOR', 200000, 20, 'D'),
-> (4, 'DEF', 'MANAGER', 1500000, 20, 'F');
Query OK, 4 rows affected (0.14 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM EMPLOYEE;
```

ENO	ENAME	JOB	SALARY	DNO	GRADE
1	ABC	CLERK	5000	10	A
2	BCD	MANAGER	100000	30	C
3	CDE	IT PROFESSOR	200000	20	D
4	DEF	MANAGER	1500000	20	F

4 rows in set (0.00 sec)

```
mysql> CREATE TABLE DEPT (DNO int, DNAME varchar(20), LOCATION varchar(30));
Query OK, 0 rows affected (0.92 sec)
```

```
mysql> INSERT INTO DEPT VALUES
-> (10, 'BANKING', 'CHENNAI'),
-> (20, 'IT', 'BANGLORE'),
-> (30, 'FINANCE', 'DELHI'),
-> (40, 'HR', 'HYDERABAD');
Query OK, 4 rows affected (0.10 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM DEPT;
```

DNO	DNAME	LOCATION
10	BANKING	CHENNAI
20	IT	BANGLORE
30	FINANCE	DELHI
40	HR	HYDERABAD

4 rows in set (0.00 sec)

```
mysql> CREATE TABLE SALARY_GRADE (GRADE char(10), LOW_SAL int, HIGH_SAL int);
Query OK, 0 rows affected (0.56 sec)
```

```
mysql> INSERT INTO SALARY_GRADE VALUES
-> ('A', 20000, 50000),
-> ('B', 50001, 99999),
-> ('C', 100000, 149999),
-> ('D', 150000, 199999),
-> ('E', 200000, 250000);
Query OK, 5 rows affected (0.09 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM SALARY_GRADE;
```

GRADE	LOW_SAL	HIGH_SAL
A	20000	50000
B	50001	99999
C	100000	149999
D	150000	199999
E	200000	250000

5 rows in set (0.00 sec)

```
mysql> SELECT DNAME FROM DEPT WHERE DNO IN (SELECT DNO FROM EMPLOYEE);
```

DNAME
BANKING
IT
FINANCE

```
3 rows in set (0.04 sec)
```

```
mysql> SELECT ENAME FROM EMPLOYEE WHERE SALARY > (SELECT SALARY FROM EMPLOYEE WHERE ENAME = 'BCD');
```

ENAME
CDE
DEF

```
2 rows in set (0.02 sec)
```

```
mysql> SELECT ENAME FROM EMPLOYEE WHERE JOB = (SELECT JOB FROM EMPLOYEE WHERE ENAME = 'DEF');
```

ENAME
BCD
DEF

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

```
mysql> SELECT ENAME, SALARY FROM EMPLOYEE WHERE SALARY > (SELECT MAX(SALARY) FROM EMPLOYEE WHERE DNO = 30);
```

ENAME	SALARY
CDE	200000
DEF	1500000

```
2 rows in set (0.01 sec)
```

```
mysql> SELECT LOW_SAL FROM SALARY_GRADE WHERE GRADE = (SELECT GRADE FROM EMPLOYEE WHERE ENAME = 'ABC');
```

LOW_SAL
20000

```
1 row in set (0.00 sec)
```

```
mysql> SELECT DNAME FROM DEPT WHERE DNO = (SELECT DNO FROM EMPLOYEE WHERE SALARY = (SELECT MAX(SALARY) FROM EMPLOYEE));
```

DNAME
IT

```
1 row in set (0.00 sec)
```

```
mysql> SELECT AVG(SALARY) FROM EMPLOYEE WHERE DNO = (SELECT DNO FROM DEPT WHERE DNAME = 'IT');
```

AVG(SALARY)
850000.0000

```
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE WHERE DNO = (SELECT DNO FROM DEPT WHERE DNAME = 'IT') AND SALARY >= 170000;
```

ENO	ENAME	JOB	SALARY	DNO	GRADE
3	CDE	IT PROFESSOR	200000	20	D
4	DEF	MANAGER	1500000	20	F

2 rows in set (0.01 sec)

```
mysql> SELECT ENAME, JOB FROM EMPLOYEE WHERE DNO = (SELECT DNO FROM DEPT WHERE DNAME = 'IT') ORDER BY ENAME;
```

ENAME	JOB
CDE	IT PROFESSOR
DEF	MANAGER

2 rows in set (0.02 sec)

```
mysql> SELECT ENAME FROM EMPLOYEE WHERE SALARY > (SELECT (LOW_SAL + HIGH_SAL)/2 FROM SALARY_GRADE WHERE EMPLOYEE.GRADE = SALARY_GRADE.GRADE);
```

ENAME
CDE

1 row in set (0.00 sec)

```
mysql> SELECT DNAME FROM DEPT WHERE (SELECT COUNT(*) FROM EMPLOYEE WHERE DNO = DEPT.DNO) > (SELECT COUNT(*) FROM EMPLOYEE WHERE DNO = (SELECT DNO FROM DEPT WHERE DNAME = 'BANKING'));
```

DNAME
IT

1 row in set (0.00 sec)