```
mysql> SELECT dname
    -> FROM dept
    -> WHERE deptno IN (SELECT deptno
    -> FROM emp
    -> WHERE ename='SCOTT');
+-----------+
| dname     |
+-----------+
| RESEARCH  |
+-----------+
```

```
mysql> SELECT ename
    -> FROM emp
    -> WHERE sal > (SELECT sal
    -> FROM emp
    -> WHERE ename='SMITH');
+--------+
| ename  |
+--------+
| ALLEN  |
| WARD   |
| JONES  |
| MARTIN |
| BLAKE  |
| CLARK  |
| SCOTT  |
| KING   |
| TURNER |
| ADAMS  |
| JAMES  |
| FORD   |
| MILLER |
+--------+
```

```
mysql> SELECT *
    -> FROM emp
    -> WHERE sal=(SELECT MAX(sal)
    -> FROM emp);
+-------+-------+-----------+------+------------+---------+------+--------+
| empno | ename | job       | mgr  | hiredate   | sal     | comm | deptno |
+-------+-------+-----------+------+------------+---------+------+--------+
|  7839 | KING  | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL |     10 |
+-------+-------+-----------+------+------------+---------+------+--------+
```

```
mysql> SELECT *
    -> FROM emp
    -> WHERE sal = (SELECT MIN(sal)
    -> FROM emp
    -> WHERE job='MANAGER');
+-------+-------+---------+------+------------+---------+------+--------+
| empno | ename | job     | mgr  | hiredate   | sal     | comm | deptno |
+-------+-------+---------+------+------------+---------+------+--------+
|  7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450.00 | NULL |     10 |
+-------+-------+---------+------+------------+---------+------+--------+
```

```
mysql> SELECT *
    -> FROM emp
    -> WHERE sal>(SELECT AVG(sal)
    -> FROM emp);
+-------+--------+-----------+------+------------+---------+------+--------+
| empno | ename  | job       | mgr  | hiredate   | sal     | comm | deptno |
+-------+--------+-----------+------+------------+---------+------+--------+
|  7566 | JONES  | MANAGER   | 7839 | 1981-04-02 | 2975.00 | NULL |     20 |
|  7698 | BLAKE  | MANAGER   | 7839 | 1981-05-01 | 2850.00 | NULL |     30 |
|  7782 | CLARK  | MANAGER   | 7839 | 1981-06-09 | 2450.00 | NULL |     10 |
|  7788 | SCOTT  | ANALYST   | 7566 | 1982-12-09 | 3000.00 | NULL |     20 |
|  7839 | KING   | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL |     10 |
|  7902 | FORD   | ANALYST   | 7566 | 1981-12-03 | 3000.00 | NULL |     20 |
+-------+--------+-----------+------+------------+---------+------+--------+
```

Second Minimum Salary:

```
mysql> SELECT *
    -> FROM emp
    -> WHERE sal=(SELECT MIN(sal)
    -> FROM emp
    -> WHERE sal>(SELECT MIN(sal)
    -> FROM emp));
+-------+--------+-------+------+------------+--------+------+--------+
| empno | ename  | job   | mgr  | hiredate   | sal    | comm | deptno |
+-------+--------+-------+------+------------+--------+------+--------+
|  7900 | JAMES  | CLERK | 7698 | 1981-12-03 | 950.00 | NULL |     30 |
+-------+--------+-------+------+------------+--------+------+--------+
```

Third Minimum Salary:

```
mysql> SELECT *
    -> FROM emp
    -> WHERE sal=(SELECT MIN(sal)
    -> FROM emp
    -> WHERE sal>(SELECT MIN(sal)
    -> FROM emp
    -> WHERE SAL>(SELECT MIN(sal)
    -> FROM emp)));
+-------+--------+-------+------+------------+---------+------+--------+
| empno | ename  | job   | mgr  | hiredate   | sal     | comm | deptno |
+-------+--------+-------+------+------------+---------+------+--------+
|  7876 | ADAMS  | CLERK | 7788 | 1983-01-12 | 1100.00 | NULL |     20 |
+-------+--------+-------+------+------------+---------+------+--------+
1 row in set (0.00 sec)
```

Multi Row SubQuery:

```
mysql> select dname
    -> from dept
    -> where deptno in (select deptno
    -> from emp
    -> where ename in('smith','allen'));
+----------+
| dname    |
+----------+
| RESEARCH |
| SALES    |
+----------+
```

```
mysql> SELECT ename,deptno,sal
    -> FROM emp
    -> WHERE sal>=ALL(SELECT sal
    -> FROM emp
    -> WHERE deptno=10);
+-------+--------+---------+
| ename | deptno | sal     |
+-------+--------+---------+
| KING  |     10 | 5000.00 |
+-------+--------+---------+
```

```
mysql> SELECT *
    -> FROM emp
    -> WHERE empno=(SELECT mgr
    -> FROM emp
    -> WHERE ename='ALLEN');
+-------+-------+---------+------+------------+---------+------+--------+
| empno | ename | job     | mgr  | hiredate   | sal     | comm | deptno |
+-------+-------+---------+------+------------+---------+------+--------+
|  7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850.00 | NULL |     30 |
+-------+-------+---------+------+------------+---------+------+--------+
```

```
mysql> SELECT *
    -> FROM emp
    -> WHERE empno=(SELECT mgr
    -> FROM emp
    -> WHERE empno=(SELECT mgr
    -> FROM emp
    -> WHERE ename='smith'));
+-------+-------+---------+------+------------+---------+------+--------+
| empno | ename | job     | mgr  | hiredate   | sal     | comm | deptno |
+-------+-------+---------+------+------------+---------+------+--------+
|  7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL |     20 |
+-------+-------+---------+------+------------+---------+------+--------+
```

```
mysql> SELECT *
    -> FROM emp
    -> WHERE mgr=(SELECT empno
    -> FROM emp
    -> WHERE ename='KING');
+-------+-------+---------+------+------------+---------+------+--------+
| empno | ename | job     | mgr  | hiredate   | sal     | comm | deptno |
+-------+-------+---------+------+------------+---------+------+--------+
|  7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL |     20 |
|  7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850.00 | NULL |     30 |
|  7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450.00 | NULL |     10 |
+-------+-------+---------+------+------------+---------+------+--------+
```

```
mysql> SELECT *
    -> FROM emp INNER JOIN dept
    -> ON emp.deptno=dept.deptno;
+-------+--------+-----------+------+------------+---------+---------+--------+--------+------------+----------+
| empno | ename  | job       | mgr  | hiredate   | sal     | comm    | deptno | deptno | dname      | loc      |
+-------+--------+-----------+------+------------+---------+---------+--------+--------+------------+----------+
|  7369 | SMITH  | CLERK     | 7902 | 1980-12-17 |  800.00 |    NULL |     20 |     20 | RESEARCH   | DALLAS   |
|  7499 | ALLEN  | SALESMAN  | 7698 | 1981-02-20 | 1600.00 |  300.00 |     30 |     30 | SALES      | CHICAGO  |
|  7521 | WARD   | SALESMAN  | 7698 | 1981-02-22 | 1250.00 |  500.00 |     30 |     30 | SALES      | CHICAGO  |
|  7566 | JONES  | MANAGER   | 7839 | 1981-04-02 | 2975.00 |    NULL |     20 |     20 | RESEARCH   | DALLAS   |
|  7654 | MARTIN | SALESMAN  | 7698 | 1981-09-28 | 1250.00 | 1400.00 |     30 |     30 | SALES      | CHICAGO  |
|  7698 | BLAKE  | MANAGER   | 7839 | 1981-05-01 | 2850.00 |    NULL |     30 |     30 | SALES      | CHICAGO  |
|  7782 | CLARK  | MANAGER   | 7839 | 1981-06-09 | 2450.00 |    NULL |     10 |     10 | ACCOUNTING | NEW YORK |
|  7788 | SCOTT  | ANALYST   | 7566 | 1982-12-09 | 3000.00 |    NULL |     20 |     20 | RESEARCH   | DALLAS   |
|  7839 | KING   | PRESIDENT | NULL | 1981-11-17 | 5000.00 |    NULL |     10 |     10 | ACCOUNTING | NEW YORK |
|  7844 | TURNER | SALESMAN  | 7698 | 1981-09-08 | 1500.00 |    0.00 |     30 |     30 | SALES      | CHICAGO  |
|  7876 | ADAMS  | CLERK     | 7788 | 1983-01-12 | 1100.00 |    NULL |     20 |     20 | RESEARCH   | DALLAS   |
|  7900 | JAMES  | CLERK     | 7698 | 1981-12-03 |  950.00 |    NULL |     30 |     30 | SALES      | CHICAGO  |
|  7902 | FORD   | ANALYST   | 7566 | 1981-12-03 | 3000.00 |    NULL |     20 |     20 | RESEARCH   | DALLAS   |
|  7934 | MILLER | CLERK     | 7782 | 1982-01-23 | 1300.00 |    NULL |     10 |     10 | ACCOUNTING | NEW YORK |
+-------+--------+-----------+------+------------+---------+---------+--------+--------+------------+----------+
```

```
mysql> SELECT e1.ename emp_name,e2.ename mgr_name
    -> FROM emp e1,emp e2
    -> WHERE e1.mgr=e2.empno AND e1.job = 'CLERK';
+----------+----------+
| emp_name | mgr_name |
+----------+----------+
| JAMES    | BLAKE    |
| MILLER   | CLARK    |
| ADAMS    | SCOTT    |
| SMITH    | FORD     |
+----------+----------+
4 rows in set (0.00 sec)
```

```
mysql> SELECT e1.ename emp_name,e2.sal mgr_sal
    -> FROM emp e1,emp e2
    -> WHERE e1.mgr=e2.empno AND e2.sal>2300 and e1.sal>2300;
+----------+---------+
| emp_name | mgr_sal |
+----------+---------+
| FORD     | 2975.00 |
| SCOTT    | 2975.00 |
| CLARK    | 5000.00 |
| BLAKE    | 5000.00 |
| JONES    | 5000.00 |
+----------+---------+
```