

Last login: Mon Mar 18 07:50:07 on console  
macbook@Kshitijs-MacBook-Air ~ % mysql -u root  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 8.3.0 Homebrew

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

mysql> use impact;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A

Database changed  
mysql> select \* from emp;

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
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
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
1001	gopal	NULL	NULL	NULL	4000.00	NULL	NULL

15 rows in set (0.01 sec)

mysql> create or replace view v1 as select empno,ename,job from emp;  
Query OK, 0 rows affected (0.02 sec)

mysql> select \* from v1;

empno	ename	job
7369	SMITH	CLERK
7499	ALLEN	SALESMAN
7521	WARD	SALESMAN
7566	JONES	MANAGER
7654	MARTIN	SALESMAN
7698	BLAKE	MANAGER
7782	CLARK	MANAGER
7788	SCOTT	ANALYST
7839	KING	PRESIDENT
7844	TURNER	SALESMAN
7876	ADAMS	CLERK
7900	JAMES	CLERK
7902	FORD	ANALYST
7934	MILLER	CLERK
1001	gopal	NULL

15 rows in set (0.00 sec)

mysql> inset into v1  
-> values(1002,"Queen","Rest");  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'inset  
into v1  
values(1002,"Queen","Rest")' at line 1  
mysql> insert into v1 values(1002,"Queen","Rest");  
Query OK, 1 row affected (0.00 sec)

mysql> select \* from emp;

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
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
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
1001	gopal	NULL	NULL	NULL	4000.00	NULL	NULL
1002	Queen	Rest	NULL	NULL	NULL	NULL	NULL

16 rows in set (0.00 sec)

mysql> lock table emp read;  
Display all 862 possibilities? (y or n)  
mysql> lock table emp read; # lock the table  
Query OK, 0 rows affected (0.00 sec)

mysql> insert into v1 values(1003,"Dasi","Kaam");  
ERROR 1100 (HY000): Table 'v1' was not locked with LOCK TABLES  
mysql> unlock tables # it will unlock the table  
-> ;  
Query OK, 0 rows affected (0.00 sec)

mysql> insert into v1 values(1003,"Dasi","Kaam");  
Query OK, 1 row affected (0.00 sec)

```
mysql> select * from emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
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
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
1001	gopal	NULL	NULL	NULL	4000.00	NULL	NULL
1002	Queen	Rest	NULL	NULL	NULL	NULL	NULL
1003	Dasi	Kaam	NULL	NULL	NULL	NULL	NULL

17 rows in set (0.00 sec)

```
mysql> lock table v1 read; # lock the table
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> insert into v1 values(1003,'Arit','sing');
ERROR 1099 (HY000): Table 'emp' was locked with a READ lock and can't be updated
mysql> unlock tables;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> insert into v1 values(1003,'Arit','sing');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> create or replace view emp_v2
-> as
-> select e.empno,e.ename,e.job,d.deptno,d.dname from emp e join dept d on(d.deptno=e.deptno);
ERROR 1054 (42S22): Unknown column 'd.deptno' in 'field list'
mysql> select * from dept;
```

dno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	testing	SA

5 rows in set (0.01 sec)

```
mysql> create or replace view emp_v2 as select e.empno,e.ename,e.job,d.no,d.dname from emp e join dept d on(d.dno=e.deptno);
ERROR 1054 (42S22): Unknown column 'd.no' in 'field list'
mysql> create or replace view emp_v2 as select e.empno,e.ename,e.job,d.dno,d.dname from emp e join dept d on(d.dno=e.deptno);
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from emp_v2;
```

empno	ename	job	dno	dname
7369	SMITH	CLERK	20	RESEARCH
7499	ALLEN	SALESMAN	30	SALES
7521	WARD	SALESMAN	30	SALES
7566	JONES	MANAGER	20	RESEARCH
7654	MARTIN	SALESMAN	30	SALES
7698	BLAKE	MANAGER	30	SALES
7782	CLARK	MANAGER	10	ACCOUNTING
7788	SCOTT	ANALYST	20	RESEARCH
7839	KING	PRESIDENT	10	ACCOUNTING
7844	TURNER	SALESMAN	30	SALES
7876	ADAMS	CLERK	20	RESEARCH
7900	JAMES	CLERK	30	SALES
7902	FORD	ANALYST	20	RESEARCH
7934	MILLER	CLERK	10	ACCOUNTING

14 rows in set (0.01 sec)

```
mysql> select
-> TABLE_SCHEMA,
-> TABLE_NAME,
-> TABLE_TYPE
-> FROM information_schema.TABLES
-> where TABLE_SCHEMA LIKE 'impact' AND TABLE_TYPE LIKE 'VIEW';
```

TABLE_SCHEMA	TABLE_NAME	TABLE_TYPE
impact	v1	VIEW
impact	emp_v2	VIEW

2 rows in set (0.01 sec)

```
mysql> show create view v1;
```

View	Create View	character_set_client	collation_connection
v1	CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY DEFINER VIEW `v1` AS select `emp`.`empno` AS `empno`,`emp`.`ename` AS `ename`,`emp`.`job` AS `job` from `emp`   utf8mb4		utf8mb4_0900_ai_ci

1 row in set (0.01 sec)

```
mysql> alter view v1 as select empno,ename,job,mgr from emp;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> show create view v1;
```

```

+-----+-----+
| View | Create View |
+-----+-----+
| character_set_client | collation_connection |
+-----+-----+

v1 | CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY DEFINER VIEW 'v1' AS select `emp`.`empno` AS `empno`,`emp`.`ename` AS `ename`,`emp`.`job` AS `job`,`emp`.`mgr` AS `mgr` from `emp` | utf8mb4 | utf8mb4_0900_ai_ci |
+-----+-----+

1 row in set (0.01 sec)

mysql> select*from v1;
+-----+-----+
| empno | ename | job | mgr |
+-----+-----+
| 7369 | SMITH | CLERK | 7902 |
| 7499 | ALLEN | SALESMAN | 7698 |
| 7521 | WARD | SALESMAN | 7698 |
| 7566 | JONES | MANAGER | 7839 |
| 7654 | MARTIN | SALESMAN | 7698 |
| 7698 | BLAKE | MANAGER | 7839 |
| 7782 | CLARK | MANAGER | 7839 |
| 7788 | SCOTT | ANALYST | 7566 |
| 7839 | KING | PRESIDENT | NULL |
| 7844 | TURNER | SALESMAN | 7698 |
| 7876 | ADAMS | CLERK | 7788 |
| 7900 | JAMES | CLERK | 7698 |
| 7902 | FORD | ANALYST | 7566 |
| 7934 | MILLER | CLERK | 7782 |
| 1001 | gopal | NULL | NULL |
| 1002 | Queen | Rest | NULL |
| 1003 | Dasi | Kaam | NULL |
| 1003 | Arjit | sing | NULL |
+-----+-----+

18 rows in set (0.00 sec)

mysql> show create view emp_v2;
+-----+-----+
| View | Create View |
+-----+-----+
| character_set_client | collation_connection |
+-----+-----+

emp_v2 | CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY DEFINER VIEW 'emp_v2' AS select `e`.`empno` AS `empno`,`e`.`ename` AS `ename`,`e`.`job` AS `job`,`d`.`dno` AS `dno`,`d`.`dname` AS `dname` from `emp` `e` join `dept` `d` on((`d`.`dno` = `e`.`deptno`))) | utf8mb4 | utf8mb4_0900_ai_ci |
+-----+-----+

1 row in set (0.00 sec)

mysql> alter view v1 as select e.empno,e.ename,e.job,e.mgr,d.dno,d.dname from emp e join dept d on(d.dno=e.deptno);
Query OK, 0 rows affected (0.00 sec)

mysql> select*from emp_v2;
+-----+-----+
| empno | ename | job | dno | dname |
+-----+-----+
| 7369 | SMITH | CLERK | 20 | RESEARCH |
| 7499 | ALLEN | SALESMAN | 30 | SALES |
| 7521 | WARD | SALESMAN | 30 | SALES |
| 7566 | JONES | MANAGER | 20 | RESEARCH |
| 7654 | MARTIN | SALESMAN | 30 | SALES |
| 7698 | BLAKE | MANAGER | 30 | SALES |
| 7782 | CLARK | MANAGER | 10 | ACCOUNTING |
| 7788 | SCOTT | ANALYST | 20 | RESEARCH |
| 7839 | KING | PRESIDENT | 10 | ACCOUNTING |
| 7844 | TURNER | SALESMAN | 30 | SALES |
| 7876 | ADAMS | CLERK | 20 | RESEARCH |
| 7900 | JAMES | CLERK | 30 | SALES |
| 7902 | FORD | ANALYST | 20 | RESEARCH |
| 7934 | MILLER | CLERK | 10 | ACCOUNTING |
+-----+-----+

14 rows in set (0.00 sec)

mysql> drop view v1;
Query OK, 0 rows affected (0.01 sec)

mysql> create or replace view test_v12
-> as select
empno,ename,sal,deptno from where deptno=30 with check option;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'replce view test_v12
as select
empno,ename,sal,deptno from where deptno=30 with ' at line 1
mysql> create or replace view test_v12 as select empno,ename,sal,deptno from where deptno=30 with check option;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where deptno=30 with check option' at line 1
mysql> create or replace view test_v12 as select empno,ename,sal,deptno from emp where deptno=30 with check option;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from test_v12;
+-----+-----+
| empno | ename | sal | deptno |
+-----+-----+
| 7499 | ALLEN | 1600.00 | 30 |
| 7521 | WARD | 1250.00 | 30 |
| 7654 | MARTIN | 1250.00 | 30 |
| 7698 | BLAKE | 2850.00 | 30 |
| 7844 | TURNER | 1500.00 | 30 |
| 7900 | JAMES | 950.00 | 30 |
+-----+-----+

6 rows in set (0.00 sec)

mysql> insert into test_v12 values(7143,'RAJESH',5000,30);
Query OK, 1 row affected (0.00 sec)

```

```

mysql> insert into test_v12 values(7143,'RAJESH',5000,10);          #invalid
ERROR 1369 (HY000): CHECK OPTION failed 'impact.test_v12'
mysql> use assignment;
ERROR 1049 (42000): Unknown database 'assignment'
mysql> show databases;
+-----+
| Database |
+-----+
| assignments |
| impact |
| information_schema |
| mysql |
| performance_schema |
| sys |
| world |
+-----+
7 rows in set (0.01 sec)

mysql> use assignments;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_assignments |
+-----+
| customer |
| dept |
| emp |
| orders |
| orderstatus |
| product |
+-----+
6 rows in set (0.00 sec)

mysql> create table saleman(salesman_id int,name varchar(20),city varchar(20),commission float)
-> ;
Query OK, 0 rows affected (0.02 sec)

mysql> insert into salesman values (5001,'James Hoog','New York',0.15),
->
Display all 808 possibilities? (y or n)
->
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at
line 1
mysql> insert into salesman values (5001,'James Hoog','New York',0.15), (5002,'Nail Knite','Paris',0.13),(5005,'Pit Alex','London',0.11),(5006,'Mc Lyon','Paris',
0.14),(5007,'Paul Adam','Rome',0.13),(5003,'Lauson Hen','San Jose',0.15);
ERROR 1146 (42S02): Table 'assignments.saleman' doesn't exist
mysql> insert into saleman values (5001,'James Hoog','New York',0.15), (5002,'Nail Knite','Paris',0.13),(5005,'Pit Alex','London',0.11),(5006,'Mc Lyon','Paris',
0.14),(5007,'Paul Adam','Rome',0.13),(5003,'Lauson Hen','San Jose',0.15);
Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0

mysql> create or replace view salespeople select * from saleman where city='New York';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select
t * from saleman where city='New York'' at line 1
mysql> select *from saleman;
+-----+
| salesman_id | name | city | commission |
+-----+
| 5001 | James Hoog | New York | 0.15 |
| 5002 | Nail Knite | Paris | 0.13 |
| 5005 | Pit Alex | London | 0.11 |
| 5006 | Mc Lyon | Paris | 0.14 |
| 5007 | Paul Adam | Rome | 0.13 |
| 5003 | Lauson Hen | San Jose | 0.15 |
+-----+
6 rows in set (0.00 sec)

mysql> create or replace view salespeople as select * from saleman where city='New York';
Query OK, 0 rows affected (0.00 sec)

mysql> select * from salespeople;
+-----+
| salesman_id | name | city | commission |
+-----+
| 5001 | James Hoog | New York | 0.15 |
+-----+
1 row in set (0.00 sec)

mysql> create or replace view salespersons as select salesman_id,name,city from saleman;
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> select * from salespersons;
+-----+
| salesman_id | name | city |
+-----+
| 5001 | James Hoog | New York |
| 5002 | Nail Knite | Paris |
| 5005 | Pit Alex | London |
| 5006 | Mc Lyon | Paris |
| 5007 | Paul Adam | Rome |
| 5003 | Lauson Hen | San Jose |
+-----+
6 rows in set (0.01 sec)

mysql> drop table customer;
ERROR 3730 (HY000): Cannot drop table 'customer' referenced by a foreign key constraint 'orders_ibfk_2' on table 'orders'.
mysql> drop table orders;
Query OK, 0 rows affected (0.02 sec)

mysql> drop table customer;
Query OK, 0 rows affected (0.01 sec)

mysql> create table customer(customer_id int,cust_name varchar(20),city varchar(10),grade int,salesman_id int);
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> insert into customer values(3002,'Nick Rimando','New York',100,5001);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values(3007,'Brad Davis','New York',200,5001);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values (3005,'Graham Zusi','California',200,5002);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values (3008,'Julian Green',' London',300,5002);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values (3004,'Fabian Johnson','Paris',300,5006);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values (3009,'Geoff Cameron','Berlin',100,5003);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values (3003,'Jozy Altidor','Moscow',200,5007);
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values (3001,' Brad Guzan','London',null,5005);
Query OK, 1 row affected (0.00 sec)

mysql> create table orders (ord_no int,purch_amt float,ord_date date,customer_id int,salesman_id int);
Query OK, 0 rows affected (0.01 sec)

mysql> insert into orders values(70001,150.5,'2012-10-05',3005,5002);
Query OK, 1 row affected (0.00 sec)

mysql> insert into orders values(70009,270.65,'2012-09-10',3001,5005);
Query OK, 1 row affected (0.00 sec)

mysql> insert into orders values(70002,65.26,'2012-10-05',3002,5001);
Query OK, 1 row affected (0.00 sec)

mysql> insert into orders values(70004,110.5,'2012-08-17',3009,5003);
Query OK, 1 row affected (0.00 sec)

mysql> insert into orders values(70007,948.5,'2012-09-10',3005,5002);
Query OK, 1 row affected (0.00 sec)

mysql> insert into orders values(70005,2400.6,'2012-07-27',3007,5001);
Query OK, 1 row affected (0.00 sec)

mysql> insert into orders values(70008,5760,'2012-09-10',3002,5001);
Query OK, 1 row affected (0.00 sec)

```

```
mysql> select * from orders;
```

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001

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

```
mysql> select * from customer;
```

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	Brad Guzan	London	NULL	5005

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

```
mysql> create or replace view v3 as select distinct(c.customer_id),avg(o.purch_amt),sum(o.purch_amt),o.ord_date from customer c join orders o on(o.customer_id=c
.customer_id) order by o.ord_date;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from v3;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'form
v3' at line 1
```

```
mysql> select * from v3;
```

```
ERROR 1140 (42000): In aggregated query without GROUP BY, expression #1 of SELECT list contains nonaggregated column 'assignments.c.customer_id'; this is incompat
ible with sql_mode=only_full_group_by
```

```
mysql> create or replace view v3 as select distinct(c.customer_id),avg(o.purch_amt),sum(o.purch_amt),o.ord_date from customer c join orders o on(o.customer_id=c
.customer_id) group by o.ord_date;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from v3;
```

```
ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'assignments.c.customer_id' which is not functiona
lly dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_full_group_by
```

```
mysql> create or replace view v3 as select count(c.customer_id),avg(o.purch_amt),sum(o.purch_amt),o.ord_date from customer c join orders o on(o.customer_id=c.cu
stomer_id) group by o.ord_date;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from v3;
```

count(c.customer_id)	avg(o.purch_amt)	sum(o.purch_amt)	ord_date
3	2326.383331298828	6979.149993896484	2012-09-10
2	107.88000106811523	215.76000213623047	2012-10-05
1	2400.60009765625	2400.60009765625	2012-07-27
1	110.5	110.5	2012-08-17

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

```
mysql> create or replace view v32 as select ord_date,count(distinct(customer_id)) as uniqueCustomer,
```

```

-> avg(purch_amt) as avg,sum(purch_amt) as sum from orders group by ord_date;
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> select * from v32;
+-----+-----+-----+-----+
| ord_date | uniqueCustomer | avg | sum |
+-----+-----+-----+-----+
| 2012-07-27 | 1 | 2400.60009765625 | 2400.60009765625 |
| 2012-08-17 | 1 | 110.5 | 110.5 |
| 2012-09-10 | 3 | 2326.383331298828 | 6979.149993896484 |
| 2012-10-05 | 2 | 107.88000106811523 | 215.76000213623047 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

```

mysql> # Subquery
Query OK, 0 rows affected (0.02 sec)

```

```

mysql> # 1. Single Row subquery
Query OK, 0 rows affected (0.00 sec)

```

```

mysql> select * from emp where sal >(select sal from emp where ename='ALLEN');
+-----+-----+-----+-----+-----+-----+-----+
| 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 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.03 sec)

```

```

mysql> select * from emp;
+-----+-----+-----+-----+-----+-----+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+-----+-----+-----+-----+-----+-----+
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250.00 | 500.00 | 30 |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250.00 | 1400.00 | 30 |
| 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 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500.00 | 0.00 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100.00 | NULL | 20 |
| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950.00 | NULL | 30 |
| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000.00 | NULL | 20 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300.00 | NULL | 10 |
+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.00 sec)

```

```

mysql> select * from emp where job = (select job from emp where ename = 'ALLEN') and sal = (select sal from emp where ename='ALLEN');
+-----+-----+-----+-----+-----+-----+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+-----+-----+-----+-----+-----+-----+
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

```

```

mysql> select max(sal) from emp where sal > (select sal from emp where sal>max(sal));
ERROR 1111 (HY000): Invalid use of group function
mysql> select max(sal) from emp where sal < (select sal from emp where sal>max(sal));
ERROR 1111 (HY000): Invalid use of group function
mysql> select max(sal) from emp where sal <select max(sal) from emp );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select
t max(sal) from emp )' at line 1
mysql> select max(sal) from emp where sal <(select max(sal) from emp );
+-----+
| max(sal) |
+-----+
| 3000.00 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> Select * from emp Where sal > ALL(Select sal from emp Where deptno = 30);
+-----+-----+-----+-----+-----+-----+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+-----+-----+-----+-----+-----+-----+
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 |
| 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 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

```

```

mysql> select * from emp where sal > ANY(1600,1250,1250,2850);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1600,
1250,1250,2850)' at line 1
mysql> Select * from emp where sal > ANY(select sal from emp where deptno = 30);
+-----+-----+-----+-----+-----+-----+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+-----+-----+-----+-----+-----+-----+
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250.00 | 500.00 | 30 |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250.00 | 1400.00 | 30 |
| 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 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500.00 | 0.00 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100.00 | NULL | 20 |
| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000.00 | NULL | 20 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300.00 | NULL | 10 |
+-----+-----+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)

```

```
mysql> select * from emp where(job,sal) IN(select job,sal from emp where deptno=30);
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30

6 rows in set (0.01 sec)

```
mysql> Select * from emp e where sal > (select AVG(sal) from emp where deptno = e.deptno);
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
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

6 rows in set (0.00 sec)

```
mysql> select deptno,dname,loc, (select sum(sal) from emp where deptno= d.deptno) sum_sal from dept d;
```

deptno	dname	loc	sum_sal
10	ACCOUNTING	NEW YORK	8750.00
20	RESEARCH	DALLAS	10875.00
30	SALES	CHICAGO	9400.00
40	OPERATIONS	BOSTON	NULL

4 rows in set (0.01 sec)

```
mysql> select dept.deptno, subquery1.total_amt from dept, ( select emp.deptno, Sum(emp.sal) total_amt
-> from emp group by deptno) subquery1 WHERE subquery1.deptno = dept.deptno;
```

deptno	total_amt
10	8750.00
20	10875.00
30	9400.00

3 rows in set (0.01 sec)

```
mysql> select * from emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
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
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

14 rows in set (0.00 sec)

```
mysql> select ename,hiredate from emp deptno = ALL(select deptno from emp where deptno='BLAKE');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '= ALL
(select deptno from emp where deptno='BLAKE')' at line 1
```

```
mysql> select ename,hiredate from emp deptno = ALL(select deptno from emp where ename='BLAKE');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '= ALL
(select deptno from emp where ename='BLAKE')' at line 1
```

```
mysql> Select * from emp Where sal > ALL(Select sal from emp Where deptno = 30);
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
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

4 rows in set (0.00 sec)

```
mysql> select ename,hiredate from emp where deptno = ALL(select deptno from emp where ename='BLAKE');
```

ename	hiredate
ALLEN	1981-02-20
WARD	1981-02-22
MARTIN	1981-09-28
BLAKE	1981-05-01
TURNER	1981-09-08
JAMES	1981-12-03

6 rows in set (0.00 sec)

```
mysql> select ename,hiredate from emp where deptno = ANY(select deptno from emp where ename='BLAKE');
```

ename	hiredate
ALLEN	1981-02-20
WARD	1981-02-22
MARTIN	1981-09-28
BLAKE	1981-05-01
TURNER	1981-09-08
JAMES	1981-12-03

6 rows in set (0.00 sec)

```
mysql> select ename,hiredate from emp where deptno != ALL(select deptno from emp where ename='BLAKE');
```

ename	hiredate
SMITH	1980-12-17
JONES	1981-04-02
CLARK	1981-06-09
SCOTT	1982-12-09
KING	1981-11-17
ADAMS	1983-01-12
FORD	1981-12-03
MILLER	1982-01-23

8 rows in set (0.00 sec)

```
mysql> select ename,hiredate from emp where deptno = ALL(select deptno from emp where ename!='BLAKE');
Empty set (0.00 sec)
```

```
mysql> select ename,hiredate from emp where deptno = (select deptno from emp where ename='BLAKE') and ename!='BLAKE';
```

ename	hiredate
ALLEN	1981-02-20
WARD	1981-02-22
MARTIN	1981-09-28
TURNER	1981-09-08
JAMES	1981-12-03

5 rows in set (0.00 sec)

```
mysql> select empno,ename from emp where sal > ALL(select avg(sal) from emp) order by sal desc;
```

empno	ename
7839	KING
7788	SCOTT
7902	FORD
7566	JONES
7698	BLAKE
7782	CLARK

6 rows in set (0.00 sec)

```
mysql> select empno,ename from emp ename = ANY(select ename from emp where ename like '%T%');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '= ANY (select ename from emp where ename like '%T%')' at line 1
```

```
mysql> select empno,ename from emp ename = (select ename from emp where ename like '%T%');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '= (select ename from emp where ename like '%T%')' at line 1
```

```
mysql> select empno,ename from emp where ename = (select ename from emp where ename like '%T%');
```

```
ERROR 1242 (21000): Subquery returns more than 1 row
```

```
mysql> select empno,ename from emp where ename = any(select ename from emp where ename like '%T%');
```

empno	ename
7369	SMITH
7654	MARTIN
7788	SCOTT
7844	TURNER

4 rows in set (0.00 sec)

```
mysql> select empno,ename from emp where ename = all(select ename from emp where ename like '%T%');
Empty set (0.00 sec)
```

```
mysql> select empno,ename from emp where ename = any(select ename from emp where ename like '%T%');
```

empno	ename
7369	SMITH
7654	MARTIN
7788	SCOTT
7844	TURNER

4 rows in set (0.00 sec)

```
mysql> mysql> select empno,ename from emp where deptno = any(delect deptno from emp where ename like '%T%');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'deptno from emp where ename like '%T%')' at line 1
```

```
mysql> select empno,ename from emp where ename=any (select ename from emp where ename like '%T%');
```

empno	ename
7369	SMITH
7654	MARTIN
7788	SCOTT
7844	TURNER

4 rows in set (0.00 sec)

```
mysql> select empno,ename from emp where deptno=any (select deptno from emp where ename like '%t%');
```

empno	ename
7369	SMITH
7499	ALLEN
7521	WARD
7566	JONES
7654	MARTIN
7698	BLAKE
7788	SCOTT
7844	TURNER
7876	ADAMS
7900	JAMES
7902	FORD

11 rows in set (0.00 sec)



```
mysql> select ename,deptno,job from emp where d.loc=(select loc from dept where loc='DALLAS');
ERROR 1054 (42S22): Unknown column 'd.loc' in 'where clause'
mysql> select ename,deptno,job from emp where d.loc=(select loc from dept d where loc='DALLAS');
ERROR 1054 (42S22): Unknown column 'd.loc' in 'where clause'
mysql> select ename,deptno,job from emp where d.loc=(select d.loc from dept d where loc='DALLAS');
ERROR 1054 (42S22): Unknown column 'd.loc' in 'where clause'
mysql> select ename,deptno,job from emp where deptno=(select deptno from dept where loc="DALLAS");
```

ename	deptno	job
SMITH	20	CLERK
JONES	20	MANAGER
SCOTT	20	ANALYST
ADAMS	20	CLERK
FORD	20	ANALYST

5 rows in set (0.00 sec)

```
mysql> select ename , sal from emp where mgr=(select empno from emp where ename='KING');
```

ename	sal
JONES	2975.00
BLAKE	2850.00
CLARK	2450.00

3 rows in set (0.00 sec)

```
mysql> select ename,hiredate from emp where deptno <>(select deptno from emp where ename='BLAKE');
```

ename	hiredate
SMITH	1980-12-17
JONES	1981-04-02
CLARK	1981-06-09
SCOTT	1982-12-09
KING	1981-11-17
ADAMS	1983-01-12
FORD	1981-12-03
MILLER	1982-01-23

8 rows in set (0.00 sec)

```
mysql> select empno,ename,sal,dense_rank() over (order by sal ) from emp;
```

empno	ename	sal	dense_rank() over (order by sal )
7369	SMITH	800.00	1
7900	JAMES	950.00	2
7876	ADAMS	1100.00	3
7521	WARD	1250.00	4
7654	MARTIN	1250.00	4
7934	MILLER	1300.00	5
7844	TURNER	1500.00	6
7499	ALLEN	1600.00	7
7782	CLARK	2450.00	8
7698	BLAKE	2850.00	9
7566	JONES	2975.00	10
7788	SCOTT	3000.00	11
7902	FORD	3000.00	11
7839	KING	5000.00	12

14 rows in set (0.01 sec)

```
mysql> select empno,ename,sal,deptno,dense_rank() over (partition by deptno order by sal) from emp;
```

empno	ename	sal	deptno	dense_rank() over (partition by deptno order by sal)
7934	MILLER	1300.00	10	1
7782	CLARK	2450.00	10	2
7839	KING	5000.00	10	3
7369	SMITH	800.00	20	1
7876	ADAMS	1100.00	20	2
7566	JONES	2975.00	20	3
7788	SCOTT	3000.00	20	4
7902	FORD	3000.00	20	4
7900	JAMES	950.00	30	1
7521	WARD	1250.00	30	2
7654	MARTIN	1250.00	30	2
7844	TURNER	1500.00	30	3
7499	ALLEN	1600.00	30	4
7698	BLAKE	2850.00	30	5

14 rows in set (0.01 sec)

```
mysql> select empno,ename,sal,rank() over (order by sal) from emp;
```

empno	ename	sal	rank() over (order by sal)
7369	SMITH	800.00	1
7900	JAMES	950.00	2
7876	ADAMS	1100.00	3
7521	WARD	1250.00	4
7654	MARTIN	1250.00	4
7934	MILLER	1300.00	6
7844	TURNER	1500.00	7
7499	ALLEN	1600.00	8
7782	CLARK	2450.00	9
7698	BLAKE	2850.00	10
7566	JONES	2975.00	11
7788	SCOTT	3000.00	12
7902	FORD	3000.00	12
7839	KING	5000.00	14

14 rows in set (0.00 sec)

```
mysql> select empno,ename,sal,rank() over (partition by deptno order by sal) from emp;
```

empno	ename	sal	rank() over (partition by deptno order by sal)
-------	-------	-----	--

7934	MILLER	1300.00	1
7782	CLARK	2450.00	2
7839	KING	5000.00	3
7369	SMITH	800.00	1
7876	ADAMS	1100.00	2
7566	JONES	2975.00	3
7788	SCOTT	3000.00	4
7902	FORD	3000.00	4
7900	JAMES	950.00	1
7521	WARD	1250.00	2
7654	MARTIN	1250.00	2
7844	TURNER	1500.00	4
7499	ALLEN	1600.00	5
7698	BLAKE	2850.00	6

14 rows in set (0.00 sec)

```
mysql> select max(sal from emp where sal <(select max(sal) from emp);\
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from
emp where sal <(select max(sal) from emp)' at line 1
mysql> select max(sal from emp where sal <(select max(sal) from emp);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from
emp where sal <(select max(sal) from emp)' at line 1
mysql> select max(sal) from emp where sal <(select max(sal) from emp);
```

max(sal)
3000.00

1 row in set (0.00 sec)

```
mysql> select sal from emp where sal = (select sal form emp where dense_rank()=2);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'emp w
here dense_rank()=2)' at line 1
mysql> select sal from emp where sal = (select sal from emp where dense_rank()=2);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '=2)'
at line 1
mysql> select sal from emp where sal = (select sal from emp where (dense_rank() over (order by sal ))=2);
```

```
ERROR 3593 (HY000): You cannot use the window function 'dense_rank' in this context.'
mysql> select distinct sal from (select empno,ename,sal,dense_rank() over (order by sal desc) asa dnk from emp) dnkemp where dnkemp.dnk=2;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'dnk f
rom emp) dnkemp where dnkemp.dnk=2' at line 1
mysql> select distinct sal from (select empno,ename,sal,dense_rank() over (order by sal desc) as dnk from emp) dnkemp where dnkemp.dnk=2;
```

sal
3000.00

1 row in set (0.01 sec)

```
mysql> select * from emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
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
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

14 rows in set (0.01 sec)

```
mysql> select * from dept;
```

deptno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

4 rows in set (0.01 sec)

```
mysql> select ename,job from emp where job = (select job from emp where ename='JONES');
```

ename	job
JONES	MANAGER
BLAKE	MANAGER
CLARK	MANAGER

3 rows in set (0.00 sec)

```
mysql> select ename, d.dname from emp where deptno = (select d.deptno from dept d where loc='DALLAS');
```

```
ERROR 1054 (42S22): Unknown column 'd.dname' in 'field list'
```

```
mysql> select ename from where sal=min(sal);
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where
sal=min(sal)' at line 1
```

```
mysql> select ename from where sal=(select min(sal) from emp);
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where
sal=(select min(sal) from emp)' at line 1
```

```
mysql> select ename from emp where sal=(select min(sal) from emp);
```

ename
SMITH

1 row in set (0.00 sec)

```
mysql> select ename from emp where sal<(select min(sal) from emp);
```

```
Empty set (0.01 sec)
```

```
mysql> select ename from emp where sal>(select min(sal) from emp);
```

ename
ALLEN
WARD
JONES
MARTIN
BLAKE
CLARK
SCOTT
KING
TURNER
ADAMS
JAMES
FORD
MILLER

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

```
mysql>
```