```
Last login: Fri Jun  7 18:25:16 on ttys000
sahilkumar@SAHILs-MacBook-Air ~ % brew services start mysql
Service `mysql` already started, use `brew services restart mysql` to restart.
sahilkumar@SAHILs-MacBook-Air ~ %
sahilkumar@SAHILs-MacBook-Air ~ % mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.3.0 Homebrew

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| school             |
| sys                |
+--------------------+
5 rows in set (0.03 sec)

mysql> use school;
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>
mysql> show tables;
+------------------+
| Tables_in_school |
+------------------+
| courses          |
| students         |
| votingList       |
+------------------+
3 rows in set (0.00 sec)

mysql> select * from students;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
+-----------+-----------+----------+-------------+--------------------+
2 rows in set (0.01 sec)

mysql> select * from students where studentid = 3;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
+-----------+-----------+----------+-------------+--------------------+
1 row in set (0.00 sec)

mysql> select studentid,firstname,lastname  from students where studentid = 3;
+-----------+-----------+----------+
| studentid | firstname | lastname |
+-----------+-----------+----------+
|         3 | Chris     | Evan     |
+-----------+-----------+----------+
1 row in set (0.00 sec)

mysql>
```

```
mysql> select * from students;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
+-----------+-----------+----------+-------------+--------------------+
2 rows in set (0.00 sec)

mysql> insert into students (studentid,firstname,lastname,dateofbirth,email) values (1,'John','Doe','200
0-02-20','johndoe@gmail.com');
Query OK, 1 row affected (0.00 sec)

mysql> insert into students (studentid,firstname,lastname,dateofbirth,email) values (4,'Allen','Cooper',
'2000-02-20','allen@gmail.com');
Query OK, 1 row affected (0.00 sec)

mysql> insert into students (studentid,firstname,lastname,dateofbirth,email) values (5,'donny','yen','20
01
Query OK, 1 row affected (0.00 sec)

mysql> select * from students;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com  |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com    |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com    |
+-----------+-----------+----------+-------------+--------------------+
5 rows in set (0.00 sec)

mysql> select * from students;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com  |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com    |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com    |
+-----------+-----------+----------+-------------+--------------------+
5 rows in set (0.00 sec)

mysql> select * from students;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com  |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com    |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com    |
+-----------+-----------+----------+-------------+--------------------+
5 rows in set (0.00 sec)

mysql> select * from students where id=1;
ERROR 1054 (42S22): Unknown column 'id' in 'where clause'
mysql> select * from students where studentid=1;
+-----------+-----------+----------+-------------+-------------------+
| studentid | firstname | lastname | dateOfBirth | email             |
+-----------+-----------+----------+-------------+-------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com |
+-----------+-----------+----------+-------------+-------------------+
1 row in set (0.00 sec)

mysql> select * from students where studentid between 1 and 3;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
```

```
|         1 | John      | Doe       | 2000-02-20   | johndoe@gmail.com  |
|         2 | Johny     | Dep       | 2002-05-21   | johndep@gmail.com  |
|         3 | Chris     | Evan      | 2001-03-03   | chris123@gmail.com |
+-----------+-----------+-----------+--------------+--------------------+
3 rows in set (0.00 sec)

mysql> select * from students where studentid in (1,2,5);
+-----------+-----------+-----------+--------------+--------------------+
| studentid | firstname | lastname  | dateOfBirth  | email              |
+-----------+-----------+-----------+--------------+--------------------+
|         1 | John      | Doe       | 2000-02-20   | johndoe@gmail.com  |
|         2 | Johny     | Dep       | 2002-05-21   | johndep@gmail.com  |
|         5 | donny     | yen       | 2001-02-20   | donny@gmail.com    |
+-----------+-----------+-----------+--------------+--------------------+
3 rows in set (0.00 sec)

mysql> select * from students;
+-----------+-----------+-----------+--------------+--------------------+
| studentid | firstname | lastname  | dateOfBirth  | email              |
+-----------+-----------+-----------+--------------+--------------------+
|         1 | John      | Doe       | 2000-02-20   | johndoe@gmail.com  |
|         2 | Johny     | Dep       | 2002-05-21   | johndep@gmail.com  |
|         3 | Chris     | Evan      | 2001-03-03   | chris123@gmail.com |
|         4 | Allen     | Cooper    | 2000-02-20   | allen@gmail.com    |
|         5 | donny     | yen       | 2001-02-20   | donny@gmail.com    |
+-----------+-----------+-----------+--------------+--------------------+
5 rows in set (0.00 sec)

mysql> select * from students where id=1 or id =4;
ERROR 1054 (42S22): Unknown column 'id' in 'where clause'
mysql> select * from students where studentid=1 or studentid =4;
+-----------+-----------+-----------+--------------+--------------------+
| studentid | firstname | lastname  | dateOfBirth  | email              |
+-----------+-----------+-----------+--------------+--------------------+
|         1 | John      | Doe       | 2000-02-20   | johndoe@gmail.com  |
|         4 | Allen     | Cooper    | 2000-02-20   | allen@gmail.com    |
+-----------+-----------+-----------+--------------+--------------------+
2 rows in set (0.00 sec)

mysql> select * from students where firstname = "John" and lastname = "doe";
+-----------+-----------+-----------+--------------+--------------------+
| studentid | firstname | lastname  | dateOfBirth  | email              |
+-----------+-----------+-----------+--------------+--------------------+
|         1 | John      | Doe       | 2000-02-20   | johndoe@gmail.com  |
+-----------+-----------+-----------+--------------+--------------------+
1 row in set (0.00 sec)

mysql> select * from students where firstname = "John" or lastname = "doe";
+-----------+-----------+-----------+--------------+--------------------+
| studentid | firstname | lastname  | dateOfBirth  | email              |
+-----------+-----------+-----------+--------------+--------------------+
|         1 | John      | Doe       | 2000-02-20   | johndoe@gmail.com  |
+-----------+-----------+-----------+--------------+--------------------+
1 row in set (0.00 sec)

mysql> select * from students
    -> ;
+-----------+-----------+-----------+--------------+--------------------+
| studentid | firstname | lastname  | dateOfBirth  | email              |
+-----------+-----------+-----------+--------------+--------------------+
|         1 | John      | Doe       | 2000-02-20   | johndoe@gmail.com  |
|         2 | Johny     | Dep       | 2002-05-21   | johndep@gmail.com  |
|         3 | Chris     | Evan      | 2001-03-03   | chris123@gmail.com |
|         4 | Allen     | Cooper    | 2000-02-20   | allen@gmail.com    |
|         5 | donny     | yen       | 2001-02-20   | donny@gmail.com    |
+-----------+-----------+-----------+--------------+--------------------+
5 rows in set (0.00 sec)

mysql> show tables;
+------------------+
| Tables_in_school |
```

```
+-----------------+
| courses         |
| students        |
| votingList      |
+-----------------+
3 rows in set (0.00 sec)

mysql> select * from courses;
Empty set (0.00 sec)

mysql> desc courses;
+------------+--------------+------+-----+---------+-------+
| Field      | Type         | Null | Key | Default | Extra |
+------------+--------------+------+-----+---------+-------+
| courseid   | int          | NO   | PRI | NULL    |       |
| coursename | varchar(100) | NO   |     | NULL    |       |
| credits    | int          | YES  |     | NULL    |       |
+------------+--------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> insert into courses values (101,"DBMS",3),(102,"DSA",4),(103,";
    ">
    "> Java" , 3);
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from courses;
+----------+------------+---------+
| courseid | coursename | credits |
+----------+------------+---------+
|      101 | DBMS       |       3 |
|      102 | DSA        |       4 |
|      103 | ;

Java     |       3 |
+----------+------------+---------+
3 rows in set (0.00 sec)

mysql> delete from courses;
Query OK, 3 rows affected (0.00 sec)

mysql> select * from courses;
Empty set (0.00 sec)

mysql> insert into courses values (101,"DBMS",3),(102,"DSA",4),(103,"JAVA",3);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from courses;
+----------+------------+---------+
| courseid | coursename | credits |
+----------+------------+---------+
|      101 | DBMS       |       3 |
|      102 | DSA        |       4 |
|      103 | JAVA       |       3 |
+----------+------------+---------+
3 rows in set (0.00 sec)

mysql> select * from students
    -> ;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com  |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com    |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com    |
+-----------+-----------+----------+-------------+--------------------+
5 rows in set (0.00 sec)
```

```
mysql> select * from students where dateofBirth>"2000-01-01";
+-----------+-----------+----------+-------------+---------------------+
| studentid | firstname | lastname | dateOfBirth | email               |
+-----------+-----------+----------+-------------+---------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com   |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com   |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com  |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com     |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com     |
+-----------+-----------+----------+-------------+---------------------+
5 rows in set (0.01 sec)

mysql> select * from students where dateofBirth>"2001-01-01";
+-----------+-----------+----------+-------------+---------------------+
| studentid | firstname | lastname | dateOfBirth | email               |
+-----------+-----------+----------+-------------+---------------------+
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com   |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com  |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com     |
+-----------+-----------+----------+-------------+---------------------+
3 rows in set (0.00 sec)

mysql> select * from students where id =2 or id =10;
ERROR 1054 (42S22): Unknown column 'id' in 'where clause'
mysql> select * from students where studentid =2 or studentid =10;
+-----------+-----------+----------+-------------+---------------------+
| studentid | firstname | lastname | dateOfBirth | email               |
+-----------+-----------+----------+-------------+---------------------+
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com   |
+-----------+-----------+----------+-------------+---------------------+
1 row in set (0.00 sec)

mysql> select * from students where firstname="Johny" and lastname="yen";
Empty set (0.00 sec)

mysql> select * from students where not studentid = 5;
+-----------+-----------+----------+-------------+---------------------+
| studentid | firstname | lastname | dateOfBirth | email               |
+-----------+-----------+----------+-------------+---------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com   |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com   |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com  |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com     |
+-----------+-----------+----------+-------------+---------------------+
4 rows in set (0.00 sec)

mysql> select * from students where firstname like "j%";
+-----------+-----------+----------+-------------+---------------------+
| studentid | firstname | lastname | dateOfBirth | email               |
+-----------+-----------+----------+-------------+---------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com   |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com   |
+-----------+-----------+----------+-------------+---------------------+
2 rows in set (0.00 sec)

mysql> select * from students where firstname like "%s";
+-----------+-----------+----------+-------------+---------------------+
| studentid | firstname | lastname | dateOfBirth | email               |
+-----------+-----------+----------+-------------+---------------------+
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com  |
+-----------+-----------+----------+-------------+---------------------+
1 row in set (0.00 sec)

mysql> select * from students where firstname like "%n%";
+-----------+-----------+----------+-------------+---------------------+
| studentid | firstname | lastname | dateOfBirth | email               |
+-----------+-----------+----------+-------------+---------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com   |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com   |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com     |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com     |
```

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

mysql> select * from students where firstname like "__h%";
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com  |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
+-----------+-----------+----------+-------------+--------------------+
2 rows in set (0.00 sec)

mysql> select * from students
    -> ;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
|         1 | John      | Doe      | 2000-02-20  | johndoe@gmail.com  |
|         2 | Johny     | Dep      | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris     | Evan     | 2001-03-03  | chris123@gmail.com |
|         4 | Allen     | Cooper   | 2000-02-20  | allen@gmail.com    |
|         5 | donny     | yen      | 2001-02-20  | donny@gmail.com    |
+-----------+-----------+----------+-------------+--------------------+
5 rows in set (0.00 sec)

mysql> select count(*) from students;
+----------+
| count(*) |
+----------+
|        5 |
+----------+
1 row in set (0.00 sec)

mysql> select count(*) as Total_Students  from students;
+----------------+
| Total_Students |
+----------------+
|              5 |
+----------------+
1 row in set (0.00 sec)

mysql> select * from courses;
+----------+------------+---------+
| courseid | coursename | credits |
+----------+------------+---------+
|      101 | DBMS       |       3 |
|      102 | DSA        |       4 |
|      103 | JAVA       |       3 |
+----------+------------+---------+
3 rows in set (0.00 sec)

mysql> select sum(credits) from courses;
+--------------+
| sum(credits) |
+--------------+
|           10 |
+--------------+
1 row in set (0.00 sec)

mysql> select sum(credits) as "Total Credits" from courses;
+---------------+
| Total Credits |
+---------------+
|            10 |
+---------------+
1 row in set (0.01 sec)

mysql> select avg(credits) as "average credits" from courses;
+-----------------+
| average credits |
+-----------------+
```

```
|         3.3333 |
+----------------+
1 row in set (0.00 sec)

mysql> select min(credits) as "min credits" from courses;
+-------------+
| min credits |
+-------------+
|           3 |
+-------------+
1 row in set (0.01 sec)

mysql> select max(credits) as "min credits" from courses;
+-------------+
| min credits |
+-------------+
|           4 |
+-------------+
1 row in set (0.00 sec)

mysql> select round( avg(credits)) from courses;
+---------------------+
| round( avg(credits)) |
+---------------------+
|                   3 |
+---------------------+
1 row in set (0.01 sec)

mysql> select round( avg(credits),2) from courses;
+-----------------------+
| round( avg(credits),2) |
+-----------------------+
|                  3.33 |
+-----------------------+
1 row in set (0.00 sec)

mysql> select round( 1.66,2) from courses;
+----------------+
| round( 1.66,2) |
+----------------+
|           1.66 |
|           1.66 |
|           1.66 |
+----------------+
3 rows in set (0.00 sec)

mysql> select round( 1.66,2);
+----------------+
| round( 1.66,2) |
+----------------+
|           1.66 |
+----------------+
1 row in set (0.00 sec)

mysql> select * from course
    -> ;
ERROR 1146 (42S02): Table 'school.course' doesn't exist
mysql> select * from courses;
+----------+------------+---------+
| courseid | coursename | credits |
+----------+------------+---------+
|      101 | DBMS       |       3 |
|      102 | DSA        |       4 |
|      103 | JAVA       |       3 |
+----------+------------+---------+
3 rows in set (0.00 sec)

mysql> select * from students;
+-----------+-----------+----------+-------------+--------------------+
| studentid | firstname | lastname | dateOfBirth | email              |
+-----------+-----------+----------+-------------+--------------------+
```

```
|         1 | John       | Doe       | 2000-02-20  | johndoe@gmail.com  |
|         2 | Johny      | Dep       | 2002-05-21  | johndep@gmail.com  |
|         3 | Chris      | Evan      | 2001-03-03  | chris123@gmail.com |
|         4 | Allen      | Cooper    | 2000-02-20  | allen@gmail.com    |
|         5 | donny      | yen       | 2001-02-20  | donny@gmail.com    |
+-----------+-----------+----------+-------------+--------------------+
5 rows in set (0.00 sec)

mysql>
mysql> create database company;
Query OK, 1 row affected (0.01 sec)

mysql> use company;
Database changed
mysql> create table employees (id int primary key auto_increment,emp_name varchar(100) not null,dept var
char(100) not null , salary int);
Query OK, 0 rows affected (0.02 sec)

mysql> insert into employees (emp_name,dept,salary) values ("Lokesh","IT",25000),("Sahil","IT",95000),("
Amit","Admin",100000),("Ram","Sales",100000);
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from company;
ERROR 1146 (42S02): Table 'company.company' doesn't exist
mysql> select * from employees;
+----+----------+-------+--------+
| id | emp_name | dept  | salary |
+----+----------+-------+--------+
|  1 | Lokesh   | IT    |  25000 |
|  2 | Sahil    | IT    |  95000 |
|  3 | Amit     | Admin | 100000 |
|  4 | Ram      | Sales | 100000 |
+----+----------+-------+--------+
4 rows in set (0.00 sec)

mysql> insert into employees (emp_name,dept,salary) values ("Lokesh","IT",25000),("Ashish","IT",195000),
("Amit kr","Security",9000),("Himanshu","Sales",10000);
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from employees;
+----+----------+----------+--------+
| id | emp_name | dept     | salary |
+----+----------+----------+--------+
|  1 | Lokesh   | IT       |  25000 |
|  2 | Sahil    | IT       |  95000 |
|  3 | Amit     | Admin    | 100000 |
|  4 | Ram      | Sales    | 100000 |
|  5 | Lokesh   | IT       |  25000 |
|  6 | Ashish   | IT       | 195000 |
|  7 | Amit kr  | Security |   9000 |
|  8 | Himanshu | Sales    |  10000 |
+----+----------+----------+--------+
8 rows in set (0.00 sec)

mysql> select dept , count(dept) from employees;
ERROR 1140 (42000): In aggregated query without GROUP BY, expression #1 of SELECT list contains nonaggre
gated column 'company.employees.dept'; this is incompatible with sql_mode=only_full_group_by
mysql>
mysql> select dept , count(dept) from employees group by dept;
+----------+-------------+
| dept     | count(dept) |
+----------+-------------+
| IT       |           4 |
| Admin    |           1 |
| Sales    |           2 |
| Security |           1 |
+----------+-------------+
4 rows in set (0.00 sec)
```

```
mysql> select dept , count(dept) as "Total Employees in each dept"  from employees group by dept;
+----------+------------------------------+
| dept     | Total Employees in each dept |
+----------+------------------------------+
| IT       |                            4 |
| Admin    |                            1 |
| Sales    |                            2 |
| Security |                            1 |
+----------+------------------------------+
4 rows in set (0.00 sec)

mysql> select dept , count(dept) as "Total Employees in each dept"  from employees group by dept having
count(dept)<2;
+----------+------------------------------+
| dept     | Total Employees in each dept |
+----------+------------------------------+
| Admin    |                            1 |
| Security |                            1 |
+----------+------------------------------+
2 rows in set (0.00 sec)

mysql> select * from employees;
+----+----------+----------+--------+
| id | emp_name | dept     | salary |
+----+----------+----------+--------+
|  1 | Lokesh   | IT       |  25000 |
|  2 | Sahil    | IT       |  95000 |
|  3 | Amit     | Admin    | 100000 |
|  4 | Ram      | Sales    | 100000 |
|  5 | Lokesh   | IT       |  25000 |
|  6 | Ashish   | IT       | 195000 |
|  7 | Amit kr  | Security |   9000 |
|  8 | Himanshu | Sales    |  10000 |
+----+----------+----------+--------+
8 rows in set (0.00 sec)

mysql> select min(salary) from employees;
+-------------+
| min(salary) |
+-------------+
|        9000 |
+-------------+
1 row in set (0.00 sec)

mysql> select max(salary) from employees;
+-------------+
| max(salary) |
+-------------+
|      195000 |
+-------------+
1 row in set (0.00 sec)

mysql> select avg(salary) from employees;
+-------------+
| avg(salary) |
+-------------+
|  69875.0000 |
+-------------+
1 row in set (0.00 sec)

mysql> select * from employees;
+----+----------+----------+--------+
| id | emp_name | dept     | salary |
+----+----------+----------+--------+
|  1 | Lokesh   | IT       |  25000 |
|  2 | Sahil    | IT       |  95000 |
|  3 | Amit     | Admin    | 100000 |
|  4 | Ram      | Sales    | 100000 |
|  5 | Lokesh   | IT       |  25000 |
|  6 | Ashish   | IT       | 195000 |
|  7 | Amit kr  | Security |   9000 |
```

```
|  8 | Himanshu | Sales    |  10000 |
+----+----------+----------+--------+
8 rows in set (0.00 sec)

mysql> select * from employees oder by salary;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQ
L server version for the right syntax to use near 'by salary' at line 1
mysql> select * from employees order by salary;
+----+----------+----------+--------+
| id | emp_name | dept     | salary |
+----+----------+----------+--------+
|  7 | Amit kr  | Security |   9000 |
|  8 | Himanshu | Sales    |  10000 |
|  1 | Lokesh   | IT       |  25000 |
|  5 | Lokesh   | IT       |  25000 |
|  2 | Sahil    | IT       |  95000 |
|  3 | Amit     | Admin    | 100000 |
|  4 | Ram      | Sales    | 100000 |
|  6 | Ashish   | IT       | 195000 |
+----+----------+----------+--------+
8 rows in set (0.00 sec)

mysql> select * from employees order by salary asc;
+----+----------+----------+--------+
| id | emp_name | dept     | salary |
+----+----------+----------+--------+
|  7 | Amit kr  | Security |   9000 |
|  8 | Himanshu | Sales    |  10000 |
|  1 | Lokesh   | IT       |  25000 |
|  5 | Lokesh   | IT       |  25000 |
|  2 | Sahil    | IT       |  95000 |
|  3 | Amit     | Admin    | 100000 |
|  4 | Ram      | Sales    | 100000 |
|  6 | Ashish   | IT       | 195000 |
+----+----------+----------+--------+
8 rows in set (0.00 sec)

mysql> select * from employees order by salary desc;
+----+----------+----------+--------+
| id | emp_name | dept     | salary |
+----+----------+----------+--------+
|  6 | Ashish   | IT       | 195000 |
|  3 | Amit     | Admin    | 100000 |
|  4 | Ram      | Sales    | 100000 |
|  2 | Sahil    | IT       |  95000 |
|  1 | Lokesh   | IT       |  25000 |
|  5 | Lokesh   | IT       |  25000 |
|  8 | Himanshu | Sales    |  10000 |
|  7 | Amit kr  | Security |   9000 |
+----+----------+----------+--------+
8 rows in set (0.00 sec)

mysql> select * from employees;
+----+----------+----------+--------+
| id | emp_name | dept     | salary |
+----+----------+----------+--------+
|  1 | Lokesh   | IT       |  25000 |
|  2 | Sahil    | IT       |  95000 |
|  3 | Amit     | Admin    | 100000 |
|  4 | Ram      | Sales    | 100000 |
|  5 | Lokesh   | IT       |  25000 |
|  6 | Ashish   | IT       | 195000 |
|  7 | Amit kr  | Security |   9000 |
|  8 | Himanshu | Sales    |  10000 |
+----+----------+----------+--------+
8 rows in set (0.00 sec)

mysql> select * from employees where id between 1 and 5;
+----+----------+-------+--------+
| id | emp_name | dept  | salary |
+----+----------+-------+--------+
```

```
| 1 | Lokesh    | IT    |  25000 |
| 2 | Sahil     | IT    |  95000 |
| 3 | Amit      | Admin | 100000 |
| 4 | Ram       | Sales | 100000 |
| 5 | Lokesh    | IT    |  25000 |
+----+----------+-------+--------+
5 rows in set (0.00 sec)

mysql> select * from employees limit 3;
+----+----------+-------+--------+
| id | emp_name | dept  | salary |
+----+----------+-------+--------+
| 1 | Lokesh    | IT    |  25000 |
| 2 | Sahil     | IT    |  95000 |
| 3 | Amit      | Admin | 100000 |
+----+----------+-------+--------+
3 rows in set (0.00 sec)

mysql> select * from employees limit 5;
+----+----------+-------+--------+
| id | emp_name | dept  | salary |
+----+----------+-------+--------+
| 1 | Lokesh    | IT    |  25000 |
| 2 | Sahil     | IT    |  95000 |
| 3 | Amit      | Admin | 100000 |
| 4 | Ram       | Sales | 100000 |
| 5 | Lokesh    | IT    |  25000 |
+----+----------+-------+--------+
5 rows in set (0.00 sec)

mysql>
```