

Name: Sanika Mahesh Sarang topic: group by, order by, distinct

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MySQL 8.0 Command Line Cli x + v
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| acpatildb |
| employee |
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
8 rows in set (0.01 sec)

mysql> use acpatildb;
Database changed
mysql> create table studentdb(
  -> roll no int primary key,
  -> name varchar(20),
  -> address varchar(20),
  -> phone bigint,
  -> age int);
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 'no int primary key, name varchar(20), address varchar(20), phone bigint, age int' at line 2
mysql> create table studentdb(
  -> roll_no int primary key,
  -> name varchar(20),
  -> address varchar(20),
  -> phone bigint,
  -> age int);
Query OK, 0 rows affected (0.04 sec)

mysql> insert into studentdb values(1,"sanu","navi mumbai",234567891,21),
  -> (2,"ayu","dombivli",4567891234,22),
  -> (3,"shreya","airoli",456786544,20),
  -> (4,"bisu","bhandup",456784542,19),
  -> (5,"vishal","juinagar",456784292,20);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from studentdb;
+-----+-----+-----+-----+-----+
| roll_no | name | address | phone | age |
+-----+-----+-----+-----+-----+
| 1 | sanu | navi mumbai | 234567891 | 21 |
| 2 | ayu | dombivli | 4567891234 | 22 |
| 3 | shreya | airoli | 456786544 | 20 |
| 4 | bisu | bhandup | 456784542 | 19 |
| 5 | vishal | juinagar | 456784292 | 20 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
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MySQL 8.0 Command Line Cli x + v

mysql> select * from studentdb
-> order by name;
+-----+-----+-----+-----+-----+
| roll_no | name | address | phone | age |
+-----+-----+-----+-----+-----+
| 2 | ayu | dombivli | 4567891234 | 22 |
| 4 | bisu | bhandup | 456784542 | 19 |
| 1 | sanu | navi mumbai | 234567891 | 21 |
| 3 | shreya | airoli | 456786544 | 20 |
| 5 | vishal | juinagar | 456784292 | 20 |
+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> select * from studentdb
-> order by name desc;
+-----+-----+-----+-----+-----+
| roll_no | name | address | phone | age |
+-----+-----+-----+-----+-----+
| 5 | vishal | juinagar | 456784292 | 20 |
| 3 | shreya | airoli | 456786544 | 20 |
| 1 | sanu | navi mumbai | 234567891 | 21 |
| 4 | bisu | bhandup | 456784542 | 19 |
| 2 | ayu | dombivli | 4567891234 | 22 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> insert into studentdb values(5,"ritesh","juinagar",5678943214,20);
ERROR 1062 (23000): Duplicate entry '5' for key 'studentdb.PRIMARY'
mysql> insert into studentdb values(6,"ritesh","juinagar",5678943214,20);
Query OK, 1 row affected (0.00 sec)

mysql> select * from studentdb;
+-----+-----+-----+-----+-----+
| roll_no | name | address | phone | age |
+-----+-----+-----+-----+-----+
| 1 | sanu | navi mumbai | 234567891 | 21 |
+-----+-----+-----+-----+-----+

MySQL 8.0 Command Line Cli x + v

+-----+-----+-----+-----+-----+
| roll_no | name | address | phone | age |
+-----+-----+-----+-----+-----+
| 1 | sanu | navi mumbai | 234567891 | 21 |
| 2 | ayu | dombivli | 4567891234 | 22 |
| 3 | shreya | airoli | 456786544 | 20 |
| 4 | bisu | bhandup | 456784542 | 19 |
| 5 | vishal | juinagar | 456784292 | 20 |
| 6 | ritesh | juinagar | 5678943214 | 20 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from studentdb
-> order by name desc;
+-----+-----+-----+-----+-----+
| roll_no | name | address | phone | age |
+-----+-----+-----+-----+-----+
| 5 | vishal | juinagar | 456784292 | 20 |
| 3 | shreya | airoli | 456786544 | 20 |
| 1 | sanu | navi mumbai | 234567891 | 21 |
| 6 | ritesh | juinagar | 5678943214 | 20 |
| 4 | bisu | bhandup | 456784542 | 19 |
| 2 | ayu | dombivli | 4567891234 | 22 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select distinct(address) from studentdb;
+-----+
| address |
+-----+
| navi mumbai |
| dombivli |
| airoli |
| bhandup |
| juinagar |
+-----+
5 rows in set (0.01 sec)
```

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MySQL 8.0 Command Line Cli x + v
5 rows in set (0.01 sec)

mysql> create table bookinfo(
  -> auth_firstname varchar(20),
  -> auth_lastname varchar(20),
  -> bookname varchar(20)
  -> );
Query OK, 0 rows affected (0.03 sec)

mysql> insert into bookinfo values("bangtan","poetry","the painting"),
  -> ("raylin","goth","twisted love"),
  -> ("raylin","goth","twisted hate"),
  -> ("james","warren","hating games"),
  -> ("george","wilson","loving you"),
  -> ("george","wilson","loosing you");
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0

mysql> select * from bookinfo;
+-----+-----+-----+
| auth_firstname | auth_lastname | bookname |
+-----+-----+-----+
| bangtan       | poetry       | the painting |
| raylin        | goth         | twisted love |
| raylin        | goth         | twisted hate |
| james         | warren       | hating games |
| george        | wilson       | loving you   |
| george        | wilson       | loosing you  |
+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select distinct auth_firstname, auth_lastname from bookinfo;
+-----+-----+
| auth_firstname | auth_lastname |
+-----+-----+
| bangtan       | poetry       |
| raylin        | goth         |
+-----+-----+
2 rows in set (0.00 sec)

mysql> select distinct auth_firstname, auth_lastname from bookinfo;
+-----+-----+
| auth_firstname | auth_lastname |
+-----+-----+
| bangtan       | poetry       |
| raylin        | goth         |
| james         | warren       |
| george        | wilson       |
+-----+-----+
4 rows in set (0.00 sec)

mysql> select count(distinct(bookname)) from bookinfo;
+-----+
| count(distinct(bookname)) |
+-----+
| 6 |
+-----+
1 row in set (0.01 sec)

mysql> create table sales(
  -> salesid int primary key,
  -> name varchar(20),
  -> age int,
  -> sales_amt int);
ERROR 1050 (42S01): Table 'sales' already exists
mysql> create table sales1(
  -> salesid int primary key,
  -> name varchar(20),
  -> age int,
  -> sales_amt int);
Query OK, 0 rows affected (0.03 sec)

mysql> insert into sales1 values(1,"v",27,45000),(2,"v",27,70000), (3,"jk",25,50000),(4,"xm",32,60000),(5,"jk",25,14000),
  -> (6,"suga",34,55000);
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

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MySQL 8.0 Command Line Cli x + v

mysql> insert into sales1 values(1,"v",27,45000),(2,"v",27,70000),(3,"jk",25,50000),(4,"rm",32,60000),(5,"jk",25,14000),
(6,"suga",34,55000);
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0

mysql> select * from sales1;
+-----+-----+-----+-----+
| salesid | name | age | sales_amt |
+-----+-----+-----+-----+
| 1 | v | 27 | 45000 |
| 2 | v | 27 | 70000 |
| 3 | jk | 25 | 50000 |
| 4 | rm | 32 | 60000 |
| 5 | jk | 25 | 14000 |
| 6 | suga | 34 | 55000 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select name,sum(sales_amt) from sales1 groupby name;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right
t syntax to use near 'name' at line 1
mysql> select name,sum(sales_amt) from sales1 group by name;
+-----+-----+
| name | sum(sales_amt) |
+-----+-----+
| v | 115000 |
| jk | 64000 |
| rm | 60000 |
| suga | 55000 |
+-----+-----+
4 rows in set (0.00 sec)

mysql> create table student_score(
-> studentid int,
-> name varchar(20),
-> percentage int,
-> grade varchar(1)
-> );
Query OK, 0 rows affected (0.03 sec)

mysql> insert into student_score values(101,"anuj",78,"A"),
-> (102,"baman",67,"B"),
-> (103,"raj",89,"A"),
-> (104,"vij",55,"C"),
-> (105,"viru",78,"A"),
-> (106,"faruq",54,"C"),
-> (107,"rani",87,"A"),
-> (108,"andi",68,"B");
Query OK, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0

mysql> select * from student_score;
+-----+-----+-----+-----+
| studentid | name | percentage | grade |
+-----+-----+-----+-----+
| 101 | anuj | 78 | A |
| 102 | baman | 67 | B |
| 103 | raj | 89 | A |
| 104 | vij | 55 | C |
| 105 | viru | 78 | A |
| 106 | faruq | 54 | C |
| 107 | rani | 87 | A |
| 108 | andi | 68 | B |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select grade,count(studentid) as no_of_students
-> from student_score
-> group by grade;
+-----+-----+
| grade | no_of_students |
+-----+-----+

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mysql> insert into student_score values(101,"anuj",78, "A"),
-> (102,"baman",67,"B"),
-> (103,"raj",89,"A"),
-> (104,"vij",55,"C"),
-> (105,"viru",78,"A"),
-> (106,"faruq",54,"C"),
-> (107,"rani",87,"A"),
-> (108,"andi",68,"B");
Query OK, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0

mysql> select * from student_score;
+-----+-----+-----+-----+
| studentid | name | percentage | grade |
+-----+-----+-----+-----+
| 101 | anuj | 78 | A |
| 102 | baman | 67 | B |
| 103 | raj | 89 | A |
| 104 | vij | 55 | C |
| 105 | viru | 78 | A |
| 106 | faruq | 54 | C |
| 107 | rani | 87 | A |
| 108 | andi | 68 | B |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select grade,count(studentid) as no_of_students
-> from student_score
-> group by grade;
+-----+-----+
| grade | no_of_students |
+-----+-----+
| A | 4 |
| B | 2 |
| C | 2 |
+-----+-----+
3 rows in set (0.00 sec)
```