Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 2

Server version: 10.1.21-MariaDB mariadb.org binary distribution

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

MariaDB [(none)]> show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| test |

+--------------------+

2 rows in set (0.00 sec)

MariaDB [(none)]> use test;

Database changed

MariaDB [test]> show tables;

Empty set (0.00 sec)

MariaDB [test]> Create table manu(Code integer(3) primary key,Name varchar(50) not null);

Query OK, 0 rows affected (0.01 sec)

MariaDB [test]> INSERT INTO manu(Code,Name) VALUES(1,'Sony');INSERT INTO manu(Code,Name) VALUES(2,'Creative Labs');INSERT INTO manu(Code,Name) VALUES(3,'Hewlett-Packard');INSERT INTO manu(Code,Name) VALUES(4,'Iomega');INSERT INTO manu(Code,Name) VALUES(5,'Fujitsu');INSERT INTO manu(Code,Name) VALUES(6,'Winchester');INSERT INTO manu VALUES(7,'moxDroid Labs Inc');insert into manu values(8,"Dell");insert into manu values(20,"BEll Labs");

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

MariaDB [test]> CREATE TABLE Products ( Code INTEGER(3), Name VARCHAR(255) NOT NULL , Price DECIMAL NOT NULL , Manufacturer INTEGER(3), PRIMARY KEY (Code), FOREIGN KEY (Manufacturer) REFERENCES manu(Code) );

Query OK, 0 rows affected (0.03 sec)

MariaDB [test]> INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(1,'Hard drive',240,5);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(2,'Memory',120,6);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(3,'ZIP drive',150,4);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(4,'Floppy disk',5,6);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(5,'Monitor',240,1);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(6,'DVD drive',180,2);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(7,'CD drive',90,2);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(8,'Printer',270,3);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(9,'Toner cartridge',66,3);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(10,'DVD burner',180,2);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(11,'Printer',40.00,7);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(12,'Toner cartridge',54.00,7);INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(13,'DVD burner',78.00,7);

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

MariaDB [test]> create view d10\_v1 as select \* from products;

Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> select \* from d10\_v1;

+------+-----------------+-------+--------------+

| Code | Name | Price | Manufacturer |

+------+-----------------+-------+--------------+

| 1 | Hard drive | 240 | 5 |

| 2 | Memory | 120 | 6 |

| 3 | ZIP drive | 150 | 4 |

| 4 | Floppy disk | 5 | 6 |

| 5 | Monitor | 240 | 1 |

| 6 | DVD drive | 180 | 2 |

| 7 | CD drive | 90 | 2 |

| 8 | Printer | 270 | 3 |

| 9 | Toner cartridge | 66 | 3 |

| 10 | DVD burner | 180 | 2 |

| 11 | Printer | 40 | 7 |

| 12 | Toner cartridge | 54 | 7 |

| 13 | DVD burner | 78 | 7 |

+------+-----------------+-------+--------------+

13 rows in set (0.00 sec)

MariaDB [test]> create view d10\_v2 as select name, price from products;

Query OK, 0 rows affected (0.01 sec)

MariaDB [test]> select \* from d10\_v2;

+-----------------+-------+

| name | price |

+-----------------+-------+

| Hard drive | 240 |

| Memory | 120 |

| ZIP drive | 150 |

| Floppy disk | 5 |

| Monitor | 240 |

| DVD drive | 180 |

| CD drive | 90 |

| Printer | 270 |

| Toner cartridge | 66 |

| DVD burner | 180 |

| Printer | 40 |

| Toner cartridge | 54 |

| DVD burner | 78 |

+-----------------+-------+

13 rows in set (0.00 sec)

MariaDB [test]> select \* from products where name like "drive";

Empty set (0.00 sec)

MariaDB [test]> create view d10\_v3 as select \* from products where name like "hard drive";

Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> select \* from d10\_v3;

+------+------------+-------+--------------+

| Code | Name | Price | Manufacturer |

+------+------------+-------+--------------+

| 1 | Hard drive | 240 | 5 |

+------+------------+-------+--------------+

1 row in set (0.00 sec)

MariaDB [test]> create view d10\_v4 as select \* from products where name like"dvd burner";

Query OK, 0 rows affected (0.02 sec)

MariaDB [test]> select \* from d10\_v4;

+------+------------+-------+--------------+

| Code | Name | Price | Manufacturer |

+------+------------+-------+--------------+

| 10 | DVD burner | 180 | 2 |

| 13 | DVD burner | 78 | 7 |

+------+------------+-------+--------------+

2 rows in set (0.00 sec)

MariaDB [test]> select name,count(\*) as "total quantity" from products group by name;

+-----------------+----------------+

| name | total quantity |

+-----------------+----------------+

| CD drive | 1 |

| DVD burner | 2 |

| DVD drive | 1 |

| Floppy disk | 1 |

| Hard drive | 1 |

| Memory | 1 |

| Monitor | 1 |

| Printer | 2 |

| Toner cartridge | 2 |

| ZIP drive | 1 |

+-----------------+----------------+

10 rows in set (0.00 sec)

MariaDB [test]> create view d10\_v6 as select name, count(\*) as "total quantity" from products group by name order by name desc;

Query OK, 0 rows affected (0.02 sec)

MariaDB [test]> SELECT \* FROM D10\_V6;

+-----------------+----------------+

| name | total quantity |

+-----------------+----------------+

| ZIP drive | 1 |

| Toner cartridge | 2 |

| Printer | 2 |

| Monitor | 1 |

| Memory | 1 |

| Hard drive | 1 |

| Floppy disk | 1 |

| DVD drive | 1 |

| DVD burner | 2 |

| CD drive | 1 |

+-----------------+----------------+

10 rows in set (0.00 sec)

MariaDB [test]> select\* from c10\_v2;

ERROR 1146 (42S02): Table 'test.c10\_v2' doesn't exist

MariaDB [test]> select\* from d10\_v2

-> ;

+-----------------+-------+

| name | price |

+-----------------+-------+

| Hard drive | 240 |

| Memory | 120 |

| ZIP drive | 150 |

| Floppy disk | 5 |

| Monitor | 240 |

| DVD drive | 180 |

| CD drive | 90 |

| Printer | 270 |

| Toner cartridge | 66 |

| DVD burner | 180 |

| Printer | 40 |

| Toner cartridge | 54 |

| DVD burner | 78 |

+-----------------+-------+

13 rows in set (0.00 sec)

MariaDB [test]> select\* from d10\_v2 where price between 100 and 200;

+------------+-------+

| name | price |

+------------+-------+

| Memory | 120 |

| ZIP drive | 150 |

| DVD drive | 180 |

| DVD burner | 180 |

+------------+-------+

4 rows in set (0.00 sec)

MariaDB [test]> select\* from d10\_v2 where name like"\_o%";

+-----------------+-------+

| name | price |

+-----------------+-------+

| Monitor | 240 |

| Toner cartridge | 66 |

| Toner cartridge | 54 |

+-----------------+-------+

3 rows in set (0.00 sec)

MariaDB [test]> select \* from d10\_v2 where price in( 120,150,100);

+-----------+-------+

| name | price |

+-----------+-------+

| Memory | 120 |

| ZIP drive | 150 |

+-----------+-------+

2 rows in set (0.00 sec)

MariaDB [test]> select\* from d10\_v2 where price=( select max(price)from d10\_v2);

+---------+-------+

| name | price |

+---------+-------+

| Printer | 270 |

+---------+-------+

1 row in set (0.00 sec)

MariaDB [test]> desc manu;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| Code | int(3) | NO | PRI | NULL | |

| Name | varchar(50) | NO | | NULL | |

+-------+-------------+------+-----+---------+-------+

2 rows in set (0.02 sec)

MariaDB [test]> SELECT PRODUCTS.CODE, PRODUCTS.NAME, MANU.NAME

-> FROM MANU

-> INNER JOIN PRODUCTS

-> ON PRODUCTS.CODE = MANU.CODE;

+------+-------------+-------------------+

| CODE | NAME | NAME |

+------+-------------+-------------------+

| 1 | Hard drive | Sony |

| 2 | Memory | Creative Labs |

| 3 | ZIP drive | Hewlett-Packard |

| 4 | Floppy disk | Iomega |

| 5 | Monitor | Fujitsu |

| 6 | DVD drive | Winchester |

| 7 | CD drive | moxDroid Labs Inc |

| 8 | Printer | Dell |

+------+-------------+-------------------+

8 rows in set (0.00 sec)

MariaDB [test]> create view d10\_v19 as select PRODUCTS.CODE, PRODUCTS.NAME "products", MANU.NAME "manufecturer"

-> FROM PRODUCTS left join manu

-> ON PRODUCTS.CODE = MANU.CODE union select products.code,products.name"products", manu.name "manufacturer" from products right join manu on products.code = manu.code;

Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> select\* from d10\_d19;

ERROR 1146 (42S02): Table 'test.d10\_d19' doesn't exist

MariaDB [test]> select\* from d10\_v19;

+------+-----------------+-------------------+

| CODE | products | manufecturer |

+------+-----------------+-------------------+

| 1 | Hard drive | Sony |

| 2 | Memory | Creative Labs |

| 3 | ZIP drive | Hewlett-Packard |

| 4 | Floppy disk | Iomega |

| 5 | Monitor | Fujitsu |

| 6 | DVD drive | Winchester |

| 7 | CD drive | moxDroid Labs Inc |

| 8 | Printer | Dell |

| 9 | Toner cartridge | NULL |

| 10 | DVD burner | NULL |

| 11 | Printer | NULL |

| 12 | Toner cartridge | NULL |

| 13 | DVD burner | NULL |

| NULL | NULL | BEll Labs |

+------+-----------------+-------------------+

14 rows in set (0.00 sec)

MariaDB [test]> select p1.code,p1.name,p2.name from products p1,products p2 where p1.code<> p2.code;

+------+-----------------+-----------------+

| code | name | name |

+------+-----------------+-----------------+

| 2 | Memory | Hard drive |

| 3 | ZIP drive | Hard drive |

| 4 | Floppy disk | Hard drive |

| 5 | Monitor | Hard drive |

| 6 | DVD drive | Hard drive |

| 7 | CD drive | Hard drive |

| 8 | Printer | Hard drive |

| 9 | Toner cartridge | Hard drive |

| 10 | DVD burner | Hard drive |

| 11 | Printer | Hard drive |

| 12 | Toner cartridge | Hard drive |

| 13 | DVD burner | Hard drive |

| 1 | Hard drive | Memory |

| 3 | ZIP drive | Memory |

| 4 | Floppy disk | Memory |

| 5 | Monitor | Memory |

| 6 | DVD drive | Memory |

| 7 | CD drive | Memory |

| 8 | Printer | Memory |

| 9 | Toner cartridge | Memory |

| 10 | DVD burner | Memory |

| 11 | Printer | Memory |

| 12 | Toner cartridge | Memory |

| 13 | DVD burner | Memory |

| 1 | Hard drive | ZIP drive |

| 2 | Memory | ZIP drive |

| 4 | Floppy disk | ZIP drive |

| 5 | Monitor | ZIP drive |

| 6 | DVD drive | ZIP drive |

| 7 | CD drive | ZIP drive |

| 8 | Printer | ZIP drive |

| 9 | Toner cartridge | ZIP drive |

| 10 | DVD burner | ZIP drive |

| 11 | Printer | ZIP drive |

| 12 | Toner cartridge | ZIP drive |

| 13 | DVD burner | ZIP drive |

| 1 | Hard drive | Floppy disk |

| 2 | Memory | Floppy disk |

| 3 | ZIP drive | Floppy disk |

| 5 | Monitor | Floppy disk |

| 6 | DVD drive | Floppy disk |

| 7 | CD drive | Floppy disk |

| 8 | Printer | Floppy disk |

| 9 | Toner cartridge | Floppy disk |

| 10 | DVD burner | Floppy disk |

| 11 | Printer | Floppy disk |

| 12 | Toner cartridge | Floppy disk |

| 13 | DVD burner | Floppy disk |

| 1 | Hard drive | Monitor |

| 2 | Memory | Monitor |

| 3 | ZIP drive | Monitor |

| 4 | Floppy disk | Monitor |

| 6 | DVD drive | Monitor |

| 7 | CD drive | Monitor |

| 8 | Printer | Monitor |

| 9 | Toner cartridge | Monitor |

| 10 | DVD burner | Monitor |

| 11 | Printer | Monitor |

| 12 | Toner cartridge | Monitor |

| 13 | DVD burner | Monitor |

| 1 | Hard drive | DVD drive |

| 2 | Memory | DVD drive |

| 3 | ZIP drive | DVD drive |

| 4 | Floppy disk | DVD drive |

| 5 | Monitor | DVD drive |

| 7 | CD drive | DVD drive |

| 8 | Printer | DVD drive |

| 9 | Toner cartridge | DVD drive |

| 10 | DVD burner | DVD drive |

| 11 | Printer | DVD drive |

| 12 | Toner cartridge | DVD drive |

| 13 | DVD burner | DVD drive |

| 1 | Hard drive | CD drive |

| 2 | Memory | CD drive |

| 3 | ZIP drive | CD drive |

| 4 | Floppy disk | CD drive |

| 5 | Monitor | CD drive |

| 6 | DVD drive | CD drive |

| 8 | Printer | CD drive |

| 9 | Toner cartridge | CD drive |

| 10 | DVD burner | CD drive |

| 11 | Printer | CD drive |

| 12 | Toner cartridge | CD drive |

| 13 | DVD burner | CD drive |

| 1 | Hard drive | Printer |

| 2 | Memory | Printer |

| 3 | ZIP drive | Printer |

| 4 | Floppy disk | Printer |

| 5 | Monitor | Printer |

| 6 | DVD drive | Printer |

| 7 | CD drive | Printer |

| 9 | Toner cartridge | Printer |

| 10 | DVD burner | Printer |

| 11 | Printer | Printer |

| 12 | Toner cartridge | Printer |

| 13 | DVD burner | Printer |

| 1 | Hard drive | Toner cartridge |

| 2 | Memory | Toner cartridge |

| 3 | ZIP drive | Toner cartridge |

| 4 | Floppy disk | Toner cartridge |

| 5 | Monitor | Toner cartridge |

| 6 | DVD drive | Toner cartridge |

| 7 | CD drive | Toner cartridge |

| 8 | Printer | Toner cartridge |

| 10 | DVD burner | Toner cartridge |

| 11 | Printer | Toner cartridge |

| 12 | Toner cartridge | Toner cartridge |

| 13 | DVD burner | Toner cartridge |

| 1 | Hard drive | DVD burner |

| 2 | Memory | DVD burner |

| 3 | ZIP drive | DVD burner |

| 4 | Floppy disk | DVD burner |

| 5 | Monitor | DVD burner |

| 6 | DVD drive | DVD burner |

| 7 | CD drive | DVD burner |

| 8 | Printer | DVD burner |

| 9 | Toner cartridge | DVD burner |

| 11 | Printer | DVD burner |

| 12 | Toner cartridge | DVD burner |

| 13 | DVD burner | DVD burner |

| 1 | Hard drive | Printer |

| 2 | Memory | Printer |

| 3 | ZIP drive | Printer |

| 4 | Floppy disk | Printer |

| 5 | Monitor | Printer |

| 6 | DVD drive | Printer |

| 7 | CD drive | Printer |

| 8 | Printer | Printer |

| 9 | Toner cartridge | Printer |

| 10 | DVD burner | Printer |

| 12 | Toner cartridge | Printer |

| 13 | DVD burner | Printer |

| 1 | Hard drive | Toner cartridge |

| 2 | Memory | Toner cartridge |

| 3 | ZIP drive | Toner cartridge |

| 4 | Floppy disk | Toner cartridge |

| 5 | Monitor | Toner cartridge |

| 6 | DVD drive | Toner cartridge |

| 7 | CD drive | Toner cartridge |

| 8 | Printer | Toner cartridge |

| 9 | Toner cartridge | Toner cartridge |

| 10 | DVD burner | Toner cartridge |

| 11 | Printer | Toner cartridge |

| 13 | DVD burner | Toner cartridge |

| 1 | Hard drive | DVD burner |

| 2 | Memory | DVD burner |

| 3 | ZIP drive | DVD burner |

| 4 | Floppy disk | DVD burner |

| 5 | Monitor | DVD burner |

| 6 | DVD drive | DVD burner |

| 7 | CD drive | DVD burner |

| 8 | Printer | DVD burner |

| 9 | Toner cartridge | DVD burner |

| 10 | DVD burner | DVD burner |

| 11 | Printer | DVD burner |

| 12 | Toner cartridge | DVD burner |

+------+-----------------+-----------------+

156 rows in set (0.00 sec)

MariaDB [test]> create view d10\_v20 as select p1.code, p1.name,p2.name from products p1, products p2 where p1.code <> p2.code;

ERROR 1060 (42S21): Duplicate column name 'name'

MariaDB [test]>