

#01
MariaDB [(none)]> show databases;

Database
information_schema
mysql
performance_schema
phpmyadmin
sports_event
test

6 rows in set (0.068 sec)

#02
MariaDB [(none)]> create database if not exists dbspr;
Query OK, 1 row affected (0.005 sec)

#03
MariaDB [(none)]> show databases;

Database
dbspr
information_schema
mysql
performance_schema
phpmyadmin
sports_event
test

7 rows in set (0.002 sec)

#04
MariaDB [(none)]> use dbspr;
Database changed

#05
MariaDB [dbspr]> show tables;
Empty set (0.001 sec)

#06
MariaDB [dbspr]> create or replace table tblest
-> (
-> eid int primary key auto_increment,
-> ename text not null,
-> sal decimal(12,2) unsigned not null,
-> tax10 decimal(9,2) unsigned not null,
-> tax20 decimal(9,2) unsigned not null,
-> tax30 decimal(9,2) unsigned not null,
-> taxtot decimal(10,2) unsigned not null,
-> np decimal(12,2) unsigned not null
->)
-> auto_increment = 1001;
Query OK, 0 rows affected (0.009 sec)

#07
MariaDB [dbspr]> show tables;

Tables_in_dbspr
tblest

1 row in set (0.001 sec)

#08
MariaDB [dbspr]> desc tblest;

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

eid	int(11)	NO	PRI	NULL	auto_increment
ename	text	NO		NULL	
sal	decimal(12,2) unsigned	NO		NULL	
tax10	decimal(9,2) unsigned	NO		NULL	
tax20	decimal(9,2) unsigned	NO		NULL	
tax30	decimal(9,2) unsigned	NO		NULL	
taxtot	decimal(10,2) unsigned	NO		NULL	
np	decimal(12,2) unsigned	NO		NULL	

8 rows in set (0.045 sec)

#09

MariaDB [dbspr]> select * from tbtest;
Empty set (0.076 sec)

#10

MariaDB [dbspr]> select count(*) from tbtest;

count(*)
0

1 row in set (0.001 sec)

#11

MariaDB [dbspr]> insert into tbtest (ename,sal) values ('x5',160000);
Query OK, 1 row affected, 5 warnings (0.004 sec)

#12

MariaDB [dbspr]> show warnings;

Level	Code	Message
Warning	1364	Field 'tax10' doesn't have a default value
Warning	1364	Field 'tax20' doesn't have a default value
Warning	1364	Field 'tax30' doesn't have a default value
Warning	1364	Field 'taxtot' doesn't have a default value
Warning	1364	Field 'np' doesn't have a default value

5 rows in set (0.001 sec)

#13

MariaDB [dbspr]> select * from tbtest;

eid	ename	sal	tax10	tax20	tax30	taxtot	np
1001	x5	160000.00	0.00	0.00	0.00	0.00	0.00

1 row in set (0.002 sec)

#14

MariaDB [dbspr]> set @x=88;
Query OK, 0 rows affected (0.000 sec)

#15

MariaDB [dbspr]> select @x;

@x
88

1 row in set (0.001 sec)

#16

MariaDB [dbspr]> select
-> case
-> when @x < 0 then 'Negative'
-> when @x > 0 then 'positive'

```

-> else 'Neutral'
-> end 'test';

```

```

+-----+
| test   |
+-----+
| positive |
+-----+

```

1 row in set (0.001 sec)

#17

```

MariaDB [dbspr]> update tblest set tax10=
-> case
-> when sal > 500000 then 250000
-> when sal > 250000 then (sal - 250000)
-> else 0
-> end * 10 / 100;

```

Query OK, 0 rows affected (0.001 sec)

Rows matched: 1 Changed: 0 Warnings: 0

#18

```

MariaDB [dbspr]> update tblest set tax20 =
-> case
-> when sal >1000000 then 500000
-> when sal >500000 then (sal-500000)
-> end * 20 / 100;

```

Query OK, 0 rows affected, 1 warning (0.001 sec)

Rows matched: 1 Changed: 0 Warnings: 1

#19

```

MariaDB [dbspr]> update tblest set tax30 =
-> case
-> when sal > 1000000 then 1000000
-> else 0
-> end * 30 / 100;

```

Query OK, 0 rows affected (0.001 sec)

Rows matched: 1 Changed: 0 Warnings: 0

#20

```

MariaDB [dbspr]> update tblest set taxtot = tax10+tax20+tax30;

```

Query OK, 0 rows affected (0.001 sec)

Rows matched: 1 Changed: 0 Warnings: 0

#21

```

MariaDB [dbspr]> update tblest set np = sal-taxtot;

```

Query OK, 1 row affected (0.004 sec)

Rows matched: 1 Changed: 1 Warnings: 0

#22

```

MariaDB [dbspr]> select * from tblest;

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| eid   | ename | sal      | tax10   | tax20   | tax30   | taxtot   | np       |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | x5    | 1600000.00 | 25000.00 | 100000.00 | 300000.00 | 425000.00 | 1175000.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+

```

1 row in set (0.001 sec)

#23

```

MariaDB [dbspr]> select trigger_name from information_schema.triggers where trigger_schema =
database();

```

Empty set (0.039 sec)

#24

```

MariaDB [dbspr]> drop trigger if exists trginsest;

```

Query OK, 0 rows affected, 1 warning (0.001 sec)

#25

```

MariaDB [dbspr]> show warnings;

```

```

+-----+-----+-----+
| Level | Code | Message                |
+-----+-----+-----+
| Note  | 1360 | Trigger does not exist |
+-----+-----+-----+
1 row in set (0.001 sec)

```

#26

MariaDB [dbspr]> delimiter //

#27

```

MariaDB [dbspr]> Create or replace trigger trginsest
-> before insert on tblest
-> for each row
-> begin
->
-> set new.tax10 =
-> case
-> when new.sal > 500000 then 250000
-> when new.sal >250000 then (sal - 250000)
->
-> else 0
-> end * 10/100;
->
-> set new.tax20 =
-> case
-> when new.sal > 1000000 then 500000
-> when new.sal >500000 then (sal -500000)
->
-> else 0
-> end * 20/100;
->
-> set new.tax30 =
-> case
-> when new.sal > 1000000 then (sal -1000000)
-> else 0
-> end * 30/100;
->
-> set new.taxtot=new.tax10+new.tax20+new.tax30;
-> set new.np = new.sal - new.taxtot;
->
-> end
-> //

```

Query OK, 0 rows affected (0.011 sec)

#28

MariaDB [dbspr]> delimiter ;

#29

```

MariaDB [dbspr]> select trigger_name from information_schema.triggers where trigger_schema =
database();

```

```

+-----+
| trigger_name |
+-----+
| trginsest    |
+-----+
1 row in set (0.043 sec)

```

#30

MariaDB [dbspr]> select * from tblest;

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| eid   | ename | sal      | tax10   | tax20   | tax30   | taxtot   | np       |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001  | x5    | 1600000.00 | 25000.00 | 100000.00 | 300000.00 | 425000.00 | 1175000.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.003 sec)

```

#31

```

MariaDB [dbspr]> insert into tblest
-> (ename,sal)
-> values

```

```

-> ('x3', 1200000),
-> ('x1', 800000),
-> ('x2', 400000),
-> ('x4', 200000);
Query OK, 4 rows affected (0.005 sec)
Records: 4 Duplicates: 0 Warnings: 0

```

#32

```
MariaDB [dbspr]> select * from tblest;
```

eid	ename	sal	tax10	tax20	tax30	taxtot	np
1001	x5	1600000.00	25000.00	100000.00	300000.00	425000.00	1175000.00
1002	x3	1200000.00	25000.00	100000.00	60000.00	185000.00	1015000.00
1003	x1	800000.00	25000.00	60000.00	0.00	85000.00	715000.00
1004	x2	400000.00	15000.00	0.00	0.00	15000.00	385000.00
1005	x4	200000.00	0.00	0.00	0.00	0.00	200000.00

5 rows in set (0.001 sec)

#33

```
MariaDB [dbspr]> update tblest set sal = 1600000 where eid = 1005;
```

Query OK, 1 row affected (0.013 sec)

Rows matched: 1 Changed: 1 Warnings: 0

#34

```
MariaDB [dbspr]> select * from tblest;
```

eid	ename	sal	tax10	tax20	tax30	taxtot	np
1001	x5	1600000.00	25000.00	100000.00	300000.00	425000.00	1175000.00
1002	x3	1200000.00	25000.00	100000.00	60000.00	185000.00	1015000.00
1003	x1	800000.00	25000.00	60000.00	0.00	85000.00	715000.00
1004	x2	400000.00	15000.00	0.00	0.00	15000.00	385000.00
1005	x4	1600000.00	0.00	0.00	0.00	0.00	200000.00

5 rows in set (0.001 sec)

#35

```
MariaDB [dbspr]> drop trigger if exists trgupdest;
```

Query OK, 0 rows affected, 1 warning (0.001 sec)

#36

```
MariaDB [dbspr]> show warnings;
```

Level	Code	Message
Note	1360	Trigger does not exist

1 row in set (0.003 sec)

#37

```
MariaDB [dbspr]> delimiter //
```

#38

```
MariaDB [dbspr]> create or replace trigger trgupdest
```

```
-> before update on tblest
```

```
-> for each row
```

```
-> begin
```

```
->
```

```
-> end
```

```
-> //
```

Query OK, 0 rows affected (0.013 sec)

#39

```
MariaDB [dbspr]> delimiter ;
```

#40

```
MariaDB [dbspr]> select trigger_name from information_schema.triggers where trigger_schema = database();
```

```
+-----+
| trigger_name |
+-----+
| trginsest    |
| trgupdest    |
+-----+
```

2 rows in set (0.053 sec)

#41

```
MariaDB [dbspr]> update tblest set sal = 200000 where eid = 1005;
```

Query OK, 1 row affected (0.012 sec)

Rows matched: 1 Changed: 1 Warnings: 0

#42

```
MariaDB [dbspr]> select * from tblest;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| eid | ename | sal      | tax10 | tax20 | tax30 | taxtot | np      |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | x5    | 1600000.00 | 25000.00 | 100000.00 | 180000.00 | 305000.00 | 1295000.00 |
| 1002 | x3    | 1200000.00 | 25000.00 | 100000.00 | 60000.00  | 185000.00 | 1015000.00 |
| 1003 | x1    | 800000.00  | 25000.00 | 60000.00  | 0.00      | 85000.00  | 715000.00  |
| 1004 | x2    | 400000.00  | 15000.00 | 0.00      | 0.00      | 15000.00  | 385000.00  |
| 1005 | x4    | 200000.00  | 0.00     | 0.00      | 0.00      | 0.00      | 200000.00  |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.001 sec)

#43

```
MariaDB [dbspr]> update tblest set sal = 200000 where eid = 1005;
```

Query OK, 0 rows affected (0.002 sec)

Rows matched: 1 Changed: 0 Warnings: 0

#44

```
MariaDB [dbspr]> select * from tblest;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| eid | ename | sal      | tax10 | tax20 | tax30 | taxtot | np      |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | x5    | 1600000.00 | 25000.00 | 100000.00 | 180000.00 | 305000.00 | 1295000.00 |
| 1002 | x3    | 1200000.00 | 25000.00 | 100000.00 | 60000.00  | 185000.00 | 1015000.00 |
| 1003 | x1    | 800000.00  | 25000.00 | 60000.00  | 0.00      | 85000.00  | 715000.00  |
| 1004 | x2    | 400000.00  | 15000.00 | 0.00      | 0.00      | 15000.00  | 385000.00  |
| 1005 | x4    | 200000.00  | 0.00     | 0.00      | 0.00      | 0.00      | 200000.00  |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.001 sec)

#45

```
MariaDB [dbspr]> delete from tblest where eid = 1003;
```

Query OK, 1 row affected (0.005 sec)

#46

```
MariaDB [dbspr]> select * from tblest;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| eid | ename | sal      | tax10 | tax20 | tax30 | taxtot | np      |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | x5    | 1600000.00 | 25000.00 | 100000.00 | 180000.00 | 305000.00 | 1295000.00 |
| 1002 | x3    | 1200000.00 | 25000.00 | 100000.00 | 60000.00  | 185000.00 | 1015000.00 |
| 1004 | x2    | 400000.00  | 15000.00 | 0.00      | 0.00      | 15000.00  | 385000.00  |
| 1005 | x4    | 200000.00  | 0.00     | 0.00      | 0.00      | 0.00      | 200000.00  |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.001 sec)

#47

```
MariaDB [dbspr]> drop trigger if exists trgdelest;
```

Query OK, 0 rows affected, 1 warning (0.001 sec)

#48

```
MariaDB [dbspr]> show warnings;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
| Level | Code | Message |
+-----+-----+-----+
| Note | 1360 | Trigger does not exist |
+-----+-----+-----+
1 row in set (0.001 sec)
```

```
#49
MariaDB [dbspr]> delimiter //
```

```
#50
MariaDB [dbspr]> create or replace trigger trgdelest
-> before delete
-> on tblest
-> for each row
-> begin
->
-> signal sqlstate '12345'
-> set message_text = 'Denied delete a row task';
->
-> end
-> //
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
your MariaDB server version for the right syntax to use near 'sqlstate '12345'
set message_text = 'Denied delete a row task';
```

```
end' at line 7
```

```
#51
MariaDB [dbspr]> delimiter ;
```

```
#52
MariaDB [dbspr]> select * from tblest ;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| eid | ename | sal          | tax10 | tax20 | tax30 | taxtot | np          |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | x5    | 1600000.00 | 25000.00 | 100000.00 | 180000.00 | 305000.00 | 1295000.00 |
| 1002 | x3    | 1200000.00 | 25000.00 | 100000.00 | 60000.00 | 185000.00 | 1015000.00 |
| 1004 | x2    | 400000.00 | 15000.00 | 0.00 | 0.00 | 15000.00 | 385000.00 |
| 1005 | x4    | 200000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 200000.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
#53
MariaDB [dbspr]> delete from tblest where eid = 1005;
Query OK, 1 row affected (0.006 sec)
```

```
#54
MariaDB [dbspr]> select * from tblest;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| eid | ename | sal          | tax10 | tax20 | tax30 | taxtot | np          |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | x5    | 1600000.00 | 25000.00 | 100000.00 | 180000.00 | 305000.00 | 1295000.00 |
```

```
#55
MariaDB [dbspr]> select trigger_name from information_schema.triggers where trigger_schema =
database();
```

```
+-----+
| trigger_name |
+-----+
| trginsest    |
| trgupdest    |
+-----+
2 rows in set (0.065 sec)
```