```
#01

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| dbspr              |
| information_schema |
| mysql              |
| performance_schema |
| phpmyadmin         |
| sports_event       |
| test               |
+--------------------+
7 rows in set (0.064 sec)

#02
MariaDB [(none)]> select database();
+------------+
| database() |
+------------+
| NULL       |
+------------+
1 row in set (0.001 sec)

#03
MariaDB [(none)]> create database if not exists tbspr;
Query OK, 1 row affected (0.005 sec)

#04
MariaDB [dbspr]> show warnings;
Empty set (0.004 sec)

#05
MariaDB [dbspr]> use dbspr;
Database changed

#06
MariaDB [dbspr]> select database();
+------------+
| database() |
+------------+
| dbspr      |
+------------+
1 row in set (0.001 sec)

#07
MariaDB [dbspr]> show tables;
+------------------+
| Tables_in_dbspr  |
+------------------+
| tblest           |
+------------------+
1 row in set (0.004 sec)

#08
MariaDB [dbspr]> drop table if exists tbl1er;
Query OK, 0 rows affected, 1 warning (0.159 sec)

#09
MariaDB [dbspr]> show warnings;
+-------+------+------------------------------+
| Level | Code | Message                      |
+-------+------+------------------------------+
| Note  | 1051 | Unknown table 'dbspr.tbl1er' |
+-------+------+------------------------------+
1 row in set (0.001 sec)

#10
```

```
MariaDB [dbspr]> create table if not exists tbl1er
    -> (
    -> rno int primary key auto_increment,
    -> sname text not null,
    -> m1 decimal (5,2) unsigned not null,
    -> m2 decimal (5,2) unsigned not null,
    -> total decimal (6,2) unsigned not null default 0,
    -> average decimal (5,2) unsigned not null default 0,
    -> result enum('Fail', 'Pass') not null default 'Fail' check(result = 'Fail' or result =
'pass')
    -> ) auto_increment = 1001;
Query OK, 0 rows affected (0.116 sec)

#11
MariaDB [dbspr]> show tables;
+-----------------+
| Tables_in_dbspr |
+-----------------+
| tbl1er          |
| tblest          |
+-----------------+
2 rows in set (0.002 sec)

#12
MariaDB [dbspr]> select * from tbl1er;
Empty set (0.007 sec)

#13
MariaDB [dbspr]> select count(*) from tbl1er;
+----------+
| count(*) |
+----------+
|        0 |
+----------+
1 row in set (0.005 sec)

#14
MariaDB [dbspr]> drop trigger if exists trginster;
Query OK, 0 rows affected, 1 warning (0.003 sec)

#15
MariaDB [dbspr]> show warnings;
+-------+------+------------------------+
| Level | Code | Message                |
+-------+------+------------------------+
| Note  | 1360 | Trigger does not exist |
+-------+------+------------------------+
1 row in set (0.000 sec)

#16
MariaDB [dbspr]> drop trigger if exists trgupd1er;
Query OK, 0 rows affected, 1 warning (0.001 sec)

#17
MariaDB [dbspr]> show warnings;
+-------+------+------------------------+
| Level | Code | Message                |
+-------+------+------------------------+
| Note  | 1360 | Trigger does not exist |
+-------+------+------------------------+
1 row in set (0.001 sec)

#18
MariaDB [dbspr]> drop trigger if exists trgdel1er;
Query OK, 0 rows affected, 1 warning (0.001 sec)

#19
MariaDB [dbspr]> show warnings;
+-------+------+------------------------+
```

```
| Level | Code | Message                |
+-------+------+------------------------+
| Note  | 1360 | Trigger does not exist |
+-------+------+------------------------+
1 row in set (0.000 sec)

#20
MariaDB [dbspr]> delimiter //

#21
MariaDB [dbspr]> create or replace trigger trgins1er
    -> before insert on tbl1er
    -> for each row
    -> begin
    ->
    -> set new.total = new.m1 + new.m2;
    -> set new.average = new.total/2;
    -> set new.result = if (new.m1 > 34.4 and new.m2 > 34.4, 'Pass', 'Fail');
    ->
    -> end
    -> //
Query OK, 0 rows affected (0.011 sec)

#22
MariaDB [dbspr]> delimiter ;

#23
MariaDB [dbspr]> delimiter //

#24
MariaDB [dbspr]> create or replace trigger trgupd1er
    -> before update on tbl1er
    -> for each row
    -> begin
    ->
    -> set new.total = new.m1 + new.m2;
    -> set new.average = new.total/2;
    -> set new.result = if(new.m1 > 34.4 and new.m2 > 34.4, 'Pass' , 'Fail');
    ->
    -> end
    -> //
Query OK, 0 rows affected (0.019 sec)

#25
MariaDB [dbspr]> delimiter ;

#26
MariaDB [dbspr]> delimiter //

#27
MariaDB [dbspr]> create or replace trigger trgdel1er
    -> before update on tbl1er
    -> for each row
    -> begin
    ->
    -> signal sqlstate '12345'
    -> set message_text = 'Denied delete a row permission';
    ->
    -> end
    -> //
Query OK, 0 rows affected (0.013 sec)

#28
MariaDB [dbspr]> delimiter ;
MariaDB [dbspr]>

#29
MariaDB [dbspr]> select trigger_name, event_manipulation from information_schema.triggers where
trigger_schema=database();
```

```
+---------------+---------------------+
| trigger_name  | event_manipulation  |
+---------------+---------------------+
| trgins1er     | INSERT              |
| trgupd1er     | UPDATE              |
| trgdel1er     | UPDATE              |
| trginsest     | INSERT              |
| trgupdest     | UPDATE              |
+---------------+---------------------+
5 rows in set (0.123 sec)
#30
MariaDB [dbspr]> insert into tbl1er
    -> (sname,m1,m2)
    -> value
    -> ('x5',56.5,63),
    -> ('x3' , 45.5, 52),
    -> ('x1' , 47.5 ,54),
    -> ('x2' ,98 ,20),
    -> ('x4', 61 , 63.5);
Query OK, 5 rows affected (0.011 sec)
Records: 5  Duplicates: 0  Warnings: 0

#31
MariaDB [dbspr]> select * from tbl1er;
+------+-------+-------+-------+--------+---------+--------+
| rno  | sname | m1    | m2    | total  | average | result |
+------+-------+-------+-------+--------+---------+--------+
| 1001 | x5    | 56.50 | 63.00 | 119.50 |   59.75 | Pass   |
| 1002 | x3    | 45.50 | 52.00 |  97.50 |   48.75 | Pass   |
| 1003 | x1    | 47.50 | 54.00 | 101.50 |   50.75 | Pass   |
| 1004 | x2    | 98.00 | 20.00 | 118.00 |   59.00 | Fail   |
| 1005 | x4    | 61.00 | 63.50 | 124.50 |   62.25 | Pass   |
+------+-------+-------+-------+--------+---------+--------+
5 rows in set (0.001 sec)
```