

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

Database
dbspr
information_schema
mysql
performance_schema
phpmyadmin
sports_event
tbSpr
test

8 rows in set (0.075 sec)

#02
MariaDB [(none)]> select database();

database()
NULL

1 row in set (0.000 sec)

#03
MariaDB [(none)]> create database if not exists dbSpr;
Query OK, 0 rows affected, 1 warning (0.001 sec)

#04
MariaDB [(none)]> show warnings;

Level	Code	Message
Error	1064	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 'warning' at line 1

1 row in set (0.000 sec)

#05
MariaDB [(none)]> show databases;

Database
dbspr
information_schema
mysql
performance_schema
phpmyadmin
sports_event
tbSpr
test

8 rows in set (0.002 sec)

#06
MariaDB [(none)]> use dbSpr;
Database changed

#07
MariaDB [dbSpr]> select database();

database()
dbSpr

```
+-----+
1 row in set (0.000 sec)
```

```
#08
MariaDB [dbspr]> show tables;
```

```
+-----+
| Tables_in_dbspr |
+-----+
| tbl1er          |
| tbl2er          |
| tbl2esa         |
| tblesa         |
| tblest         |
| tbltst1         |
| vw2er           |
| vw2esa          |
+-----+
```

```
8 rows in set (0.005 sec)
```

```
#09
MariaDB [dbspr]> drop tables tbler2,tbletr1;
ERROR 1051 (42S02): Unknown table 'dbspr.tbler2,dbspr.tbletr1'
```

```
#10
MariaDB [dbspr]> create table tbler1
-> (
-> rn1 int primary key not null,
-> sname varchar(5) not null
-> );
Query OK, 0 rows affected (0.009 sec)
```

```
#11
MariaDB [dbspr]> create table tbler2
-> (
-> rn2 int primary key not null,
-> m1 decimal(5,2) unsigned not null,
-> m2 decimal(5,2) unsigned not null,
-> total decimal(6,2) as (m1 + m2),
-> average decimal(5,2) as ((m1 + m2) /2),
-> result Enum ('Fail', 'Pass') as (if(m1 > 34.4 and m2 > 34.4, 'Pass', 'Fail')),
-> constraint cnt_rn2 foreign key(rn2) references tbler1(rn1)
-> );
Query OK, 0 rows affected (0.017 sec)
```

```
#12
MariaDB [dbspr]> show tables;
```

```
+-----+
| Tables_in_dbspr |
+-----+
| tbl1er          |
| tbl2er          |
| tbl2esa         |
| tbler1          |
| tbler2          |
| tblesa         |
| tblest         |
| tbltst1         |
| vw2er           |
| vw2esa          |
+-----+
```

```
10 rows in set (0.002 sec)
```

```
#13
MariaDB [dbspr]> select * from tbler1;
Empty set (0.004 sec)
```

```
#14
MariaDB [dbspr]> select * from tbler2;
Empty set (0.003 sec)
```

#15

MariaDB [dbspr]> desc tbler1;

Field	Type	Null	Key	Default	Extra
rn1	int(11)	NO	PRI	NULL	
sname	varchar(5)	NO		NULL	

2 rows in set (0.092 sec)

#16

MariaDB [dbspr]> show columns from tbler2;

Field	Type	Null	Key	Default	Extra
rn2	int(11)	NO	PRI	NULL	
m1	decimal(5,2) unsigned	NO		NULL	
m2	decimal(5,2) unsigned	NO		NULL	
total	decimal(6,2)	YES		NULL	VIRTUAL GENERATED
average	decimal(5,2)	YES		NULL	VIRTUAL GENERATED
result	enum('Fail','Pass')	YES		NULL	VIRTUAL GENERATED

6 rows in set (0.031 sec)

#17

MariaDB [dbspr]> insert into tbler1

```
-> values
-> (1001, 'x5'),
-> (1002, 'x3'),
-> (1003, 'x1'),
-> (1004, 'x2'),
-> (1005, 'x4');
```

Query OK, 5 rows affected (0.006 sec)

Records: 5 Duplicates: 0 Warnings: 0

#18

MariaDB [dbspr]> select * from tbler1;

rn1	sname
1001	x5
1002	x3
1003	x1
1004	x2
1005	x4

5 rows in set (0.001 sec)

#19

MariaDB [dbspr]> select * from tbler2;

Empty set (0.003 sec)

#20

MariaDB [dbspr]> insert into tbler2

```
-> (rn2 , m1 , m2)
-> values
-> (1001, 56.5,63),
-> (1003, 98,20),
-> (1005, 54.4,47.5);
```

Query OK, 3 rows affected (0.006 sec)

Records: 3 Duplicates: 0 Warnings: 0

#21

MariaDB [dbspr]> select * from tbler2;

rn2	m1	m2	total	average	result
1001	56.50	63.00	119.50	59.75	Pass

1003	98.00	20.00	118.00	59.00	Fail
1005	54.40	47.50	101.90	50.95	Pass

3 rows in set (0.001 sec)

```
#22
MariaDB [dbspr]> insert into tbler2
-> (rn2,m1,m2)
-> values
-> (2002,52,45);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails
(`dbspr`.`tbler2`, CONSTRAINT `cnt_rn2` FOREIGN KEY (`rn2`) REFERENCES `tbler1` (`rn1`))
```

```
#23
MariaDB [dbspr]> insert into tbler2
-> (rn2,m1,m2)
-> values
-> (1002,36.5,43);
Query OK, 1 row affected (0.005 sec)
```

```
#24
MariaDB [dbspr]> select * from tbler1;
+-----+-----+
| rn1 | sname |
+-----+-----+
| 1001 | x5    |
| 1002 | x3    |
| 1003 | x1    |
| 1004 | x2    |
| 1005 | x4    |
+-----+-----+
5 rows in set (0.010 sec)
```

```
#25
MariaDB [dbspr]> select * from tbler2;
+-----+-----+-----+-----+-----+-----+
| rn2 | m1   | m2   | total | average | result |
+-----+-----+-----+-----+-----+-----+
| 1001 | 56.50 | 63.00 | 119.50 | 59.75 | Pass   |
| 1002 | 36.50 | 43.00 | 79.50  | 39.75 | Pass   |
| 1003 | 98.00 | 20.00 | 118.00 | 59.00 | Fail   |
| 1005 | 54.40 | 47.50 | 101.90 | 50.95 | Pass   |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.003 sec)
```

```
#26
MariaDB [dbspr]> update tbler1 set rn1=2002 where rn1 =1002;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails
(`dbspr`.`tbler2`, CONSTRAINT `cnt_rn2` FOREIGN KEY (`rn2`) REFERENCES `tbler1` (`rn1`))
```

```
#27
MariaDB [dbspr]> update tbler2 set rn2=2002 where rn2 =1002;
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails
(`dbspr`.`tbler2`, CONSTRAINT `cnt_rn2` FOREIGN KEY (`rn2`) REFERENCES `tbler1` (`rn1`))
```

```
#28
MariaDB [dbspr]> update tbler1 set rn2=2004 where rn2 =1002;
ERROR 1054 (42S22): Unknown column 'rn2' in 'where clause'
```

```
#29
MariaDB [dbspr]> select * from tbler1;
+-----+-----+
| rn1 | sname |
+-----+-----+
| 1001 | x5    |
| 1002 | x3    |
| 1003 | x1    |
| 1004 | x2    |
| 1005 | x4    |
+-----+-----+
```

```
+-----+-----+
5 rows in set (0.001 sec)
```

#30

```
MariaDB [dbspr]> select * from tbler2;
```

```
+-----+-----+-----+-----+-----+-----+
| rn2 | m1 | m2 | total | average | result |
+-----+-----+-----+-----+-----+-----+
| 1001 | 56.50 | 63.00 | 119.50 | 59.75 | Pass |
| 1002 | 36.50 | 43.00 | 79.50 | 39.75 | Pass |
| 1003 | 98.00 | 20.00 | 118.00 | 59.00 | Fail |
| 1005 | 54.40 | 47.50 | 101.90 | 50.95 | Pass |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

#31

```
MariaDB [dbspr]> delete from tbler1 where rn1=1003;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails
(`dbspr`.`tbler2`, CONSTRAINT `cnt_rn2` FOREIGN KEY (`rn2`) REFERENCES `tbler1` (`rn1`))
```

#32

```
MariaDB [dbspr]> delete from tbler2 where rn2=1003;
Query OK, 1 row affected (0.004 sec)
```

#33

```
MariaDB [dbspr]> select * from tbler1;
```

```
+-----+-----+
| rn1 | sname |
+-----+-----+
| 1001 | x5 |
| 1002 | x3 |
| 1003 | x1 |
| 1004 | x2 |
| 1005 | x4 |
+-----+-----+
5 rows in set (0.001 sec)
```

#34

```
MariaDB [dbspr]> select * from tbler2;
```

```
+-----+-----+-----+-----+-----+-----+
| rn2 | m1 | m2 | total | average | result |
+-----+-----+-----+-----+-----+-----+
| 1001 | 56.50 | 63.00 | 119.50 | 59.75 | Pass |
| 1002 | 36.50 | 43.00 | 79.50 | 39.75 | Pass |
| 1005 | 54.40 | 47.50 | 101.90 | 50.95 | Pass |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

#35

```
MariaDB [dbspr]> delete from tbler1 where rn1 = 1002;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails
(`dbspr`.`tbler2`, CONSTRAINT `cnt_rn2` FOREIGN KEY (`rn2`) REFERENCES `tbler1` (`rn1`))
```

#36

```
MariaDB [dbspr]> select * from tbler1;
```

```
+-----+-----+
| rn1 | sname |
+-----+-----+
| 1001 | x5 |
| 1002 | x3 |
| 1003 | x1 |
| 1004 | x2 |
| 1005 | x4 |
+-----+-----+
5 rows in set (0.001 sec)
```

#37

```
MariaDB [dbspr]> select * from tbler2;
```

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

rn2	m1	m2	total	average	result
1001	56.50	63.00	119.50	59.75	Pass
1002	36.50	43.00	79.50	39.75	Pass
1005	54.40	47.50	101.90	50.95	Pass

3 rows in set (0.001 sec)