



MySQL

▼ Start

```
sudo service mysql start
sudo mysql -u root
//not case inestetiy (not data base)
```

▼ introduction

```
select version();
select current_date();
MariaDB [(none)]> select version(), now(), current_date(), user();
\c //cancel
```

▼ show and create data

```
// show and use database
MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+-----+
4 rows in set (0.181 sec)

MariaDB [(none)]> use information_schema
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [information_schema]>use mysql; show tables;
Database changed
+-----+
| Tables_in_mysql    |
```

```

+-----+
| column_stats      |
| columns_priv      |
| db                |
| event             |
| func              |
| general_log        |
| global_priv        |
| gtid_slave_pos     |
| help_category      |
| help_keyword       |
| help_relation      |
| help_topic         |
| index_stats        |
| innodb_index_stats |
| innodb_table_stats |
| plugin             |
| proc               |
| procs_priv         |
| proxies_priv       |
| roles_mapping      |
| servers            |
| slow_log           |
| table_stats        |
| tables_priv        |
| time_zone          |
| time_zone_leap_second |
| time_zone_name     |
| time_zone_transition |
| time_zone_transition_type |
| transaction_registry |
| user               |
+-----+

```

31 rows in set (0.001 sec)

// create database

MariaDB [mysql]> create database m8szt8;

Query OK, 1 row affected (0.116 sec)

MariaDB [mysql]> show databases;

```

+-----+
| Database          |
+-----+
| information_schema |
| m8szt8             |
| mysql              |
| performance_schema |
| sys                |
+-----+

```

5 rows in set (0.001 sec)

MariaDB [mysql]> use m8szt8

Database changed

MariaDB [m8szt8]> show tables;

```

Empty set (0.000 sec)
-----

//create tables and data
MariaDB [m8szt8]> create table targets (name varchar(20));
Query OK, 0 rows affected (0.189 sec)

MariaDB [m8szt8]> show tables;
+-----+
| Tables_in_m8szt8 |
+-----+
| targets          |
+-----+
1 row in set (0.001 sec)

MariaDB [m8szt8]> describe targets
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.004 sec)

MariaDB [m8szt8]> insert into targets values ('mszt') ;
Query OK, 1 row affected (0.140 sec)

MariaDB [m8szt8]> describe targets
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.002 sec)

MariaDB [m8szt8]> select * from m8szt8
-> ;
ERROR 1146 (42S02): Table 'm8szt8.m8szt8' doesn't exist
MariaDB [m8szt8]> select * from targets
-> ;
+-----+
| name |
+-----+
| mszt |
+-----+
1 row in set (0.000 sec)
-----

---
// load file
MariaDB [m8szt8]> load data infile '(link or path ton text )' into table (table name)
-----

```

▼ Edit and delete data

```
// edit data in database

MariaDB [m8szt8]> update targets set name = 'test' where name = 'mszt' ;

Query OK, 1 row affected (0.112 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [m8szt8]> select * from targets
  -> ;
+-----+
| name |
+-----+
| test |
+-----+
1 row in set (0.000 sec)

// delete data

MariaDB [m8szt8]> delete from targets

// show the wanted data only
//show one row
  select * from users where name = 'mszt' ;
// show one columb
  select uname from users ;
//show one columb and one row
  select uname from users where name = 'mszt' ;
// order
  select * from users order by age ;
// disorder
  select * from users order by age DESC;
```

▼ Pattern Matching -Regular Expressions

```
// pattern matching
select * from users where fname like'd%' // start with 'd'
select * from users where fname like'%d' // end with 'd'
select distinct fname from users where fname like '%m%' ordered by fname ; // start or
end with 'm' in fname columb
select distinct fname from users where fname like'-' ordered by fname ; // length of l
etters one letter

//regular expressions
select distinct fname from users where fname regexp'^m'; // stard with m
select distinct fname from users where fname regexp'm$'; //end with m
select distinct fname from users where fname regexp'm'; // have m letter
select distinct fname from users where fname regexp'^..$' ordered by fname ; // 2 lett
```

```
ers
select distinct fname from users where fname regexp'^.{3}$' ordered by fname ; // 3 letters
```

▼ Boolean Value -Logical Operators

```
// boolean data type == true , false
// logic operators (and , or , not )
select * from users where fname = 'mszt' or true // one happened is ok
select * from users where fname = 'mszt' and true // must tow happen to be ok
select * from users where not fname = 'mszt' // must be not like
-- to comment
union --another command with the first
```