

Petunjuk Penggunaan MariaDB

Menjalankan MariaDB

Windows

1. Buka command prompt/powershell
2. Jalankan MariaDB

```
mariadb -u {username} -p
```

username: root

password: sesuaikan dengan yang ditulis saat instalasi

Linux

1. Buka terminal
2. Jalankan server jika server belum aktif

```
sudo systemctl start mariadb
```

3. Jalankan MariaDB

```
mysql -u {username} -p
```

username: root

password: sesuaikan dengan yang ditulis saat instalasi.

Jika password tidak diubah, biasanya password kosong sehingga MariaDB dapat dijalankan dengan perintah `mysql -u root`

MacOS

1. Buka terminal
2. Jalankan server jika server belum aktif

```
mysql.server start
```

3. Jalankan MariaDB

```
mysql -u {username} -p
```

username: root

password: sesuaikan dengan yang ditulis saat mengamankan instalasi

Jika password tidak diubah, biasanya password kosong sehingga MariaDB dapat dijalankan dengan perintah `mysql -u root`

Query untuk Administrasi Database

Membuat database baru

```
create database {database_name};
```

Menampilkan daftar database yang ada dalam server

```
show databases;
```

Mengganti database yang digunakan

```
use {database_name};
```

Menampilkan daftar tabel pada sebuah database

```
show tables;
```

Menampilkan deskripsi field pada tabel

```
describe {table_name};
```

Menghapus sebuah database

```
drop database {database_name};
```

Men-dump sebuah database ke file eksternal

Keluar dulu dari MariaDB (ctrl + C) kemudian tuliskan pada terminal:

```
mysqldump -c -u {username} -p --databases {database_name} > {external_file_name}.sql
```

Contoh : (Database yang akan di export adalah database "nation")

```
> mysqldump -c -u root -p --databases nation > export_latihan.sql
```

File export_latihan.sql akan dibuat pada directory terminal saat itu.

Me-restore sebuah database dari file eksternal

Keluar dulu dari MariaDB (ctrl + C) kemudian tuliskan pada terminal:

```
mysql -u {username} -p {database_name} < {external_file_name}.sql
```

Contoh : (Terminal berada pada directory yang sama dengan file "latihan.sql", dengan nama database adalah "nation")

```
> mysql -u root -p nation < latihan.sql
```

Query untuk Administrasi User

Membuat user baru

```
# mysql -u root -p /* masuk sebagai root */
mysql> use mysql; /* gunakan tabel mysql */
mysql> INSERT INTO user (Host,User,Password) VALUES('%','username',
PASSWORD('password')); /* buat user baru */
mysql> flush privileges; /* update privilege */
```

Mengganti password user dari terminal

```
# mysqladmin -u username -h hostname.blah.org -p password 'new-password'
```

Mengganti password user dari prompt MariaDB

```
# mysql -u root -p /* masuk sebagai root */
mysql> SET PASSWORD FOR 'user'@'hostname' = PASSWORD('passwordhere');
/* ganti password */
mysql> flush privileges; /* update privilege */
```

Membuat password root (jika belum ada password root)

```
# mysqladmin -u root password {newpassword}
```

Mengganti password root

```
# mysqladmin -u root -p {oldpassword} {newpassword}
```

Contoh Query

CREATE TABLE EXAMPLE 1.

```
mysql> CREATE TABLE [table name] (firstname VARCHAR(20), middleinitial  
VARCHAR(3), lastname VARCHAR(35), suffix VARCHAR(3), officeid VARCHAR(10),  
userid VARCHAR(15), username VARCHAR(8), email VARCHAR(35), phone VARCHAR(25),  
groups VARCHAR(15), datestamp DATE, timestamp time, pgpemail VARCHAR(255));
```

CREATE TABLE EXAMPLE 2.

```
mysql> create table [table name] (personid int(50) not null auto_increment  
primary key,firstname varchar(35), middlename varchar(50), lastnamevarchar(50)  
default 'bato');
```

CREATE TABLE EXAMPLE 3.

```
mysql> CREATE TABLE IF NOT EXISTS `privileges`` (  
    `Host` char(60) COLLATE utf8_bin NOT NULL DEFAULT '',  
    `Db` char(64) COLLATE utf8_bin NOT NULL DEFAULT '',  
    `User` char(16) COLLATE utf8_bin NOT NULL DEFAULT '',  
    `Timestamp` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE  
CURRENT_TIMESTAMP,  
    PRIMARY KEY (`Host`,`Db`,`User`)  
) ENGINE=MyISAM DEFAULT CHARSET=utf8 COLLATE=utf8_bin COMMENT='Column  
privileges';
```

INSERT NEW ROW

```
mysql> INSERT INTO [table name] (col1,col2) VALUES (val1_col1, val1_col2),  
(val2_col1, val2_col2);
```

SHOW ALL DATA IN A TABLE.

```
mysql> SELECT * FROM [table name];
```

RETURNS THE COLUMNS AND COLUMN INFORMATION PERTAINING TO THE DESIGNATED TABLE.

```
mysql> show columns from [table name];
```

SHOW CERTAIN SELECTED ROWS WITH THE VALUE "WHATEVER".

```
mysql> SELECT * FROM [table name] WHERE [field name] = "whatever";
```

SHOW ALL RECORDS CONTAINING THE NAME "BOB" AND THE PHONE NUMBER '3444444'.

```
mysql> SELECT * FROM [table name] WHERE name = "Bob" AND phone_number =  
'3444444';
```

SHOW ALL RECORDS NOT CONTAINING THE NAME "BOB" AND THE PHONE NUMBER '3444444' ORDER BY THE PHONE_NUMBER FIELD.

```
mysql> SELECT * FROM [table name] WHERE name != "Bob" AND phone_number =  
'3444444' order by phone_number;
```

SHOW ALL RECORDS STARTING WITH THE LETTERS 'BOB' AND THE PHONE NUMBER '3444444'.

```
mysql> SELECT * FROM [table name] WHERE name like "Bob%" AND phone_number = '3444444';
```

SHOW ALL RECORDS STARTING WITH THE LETTERS 'BOB' AND THE PHONE NUMBER '3444444' LIMIT TO RECORDS 1 THROUGH 5.

```
mysql> SELECT * FROM [table name] WHERE name like "Bob%" AND phone_number = '3444444' limit 1,5;
```

USE A REGULAR EXPRESSION TO FIND RECORDS. USE "REGEXP BINARY" TO FORCE CASE-SENSITIVITY. THIS FINDS ANY RECORD BEGINNING WITH A.

```
mysql> SELECT * FROM [table name] WHERE rec RLIKE "^a";
```

SHOW UNIQUE RECORDS.

```
mysql> SELECT DISTINCT [column name] FROM [table name];
```

SHOW SELECTED RECORDS SORTED IN AN ASCENDING (ASC) OR DESCENDING (DESC).

```
mysql> SELECT [col1],[col2] FROM [table name] ORDER BY [col2] DESC;
```

RETURN NUMBER OF ROWS.

```
mysql> SELECT COUNT(*) FROM [table name];
```

SUM COLUMN.

```
mysql> SELECT SUM([col]) FROM [table name];
```

JOIN TABLES ON COMMON COLUMNS.

```
mysql> select lookup.illustrationid, lookup.personid, person.birthday from lookup left join person on lookup.personid=person.personid=statement to join birthday in person table with primary illustration id;
```

TO UPDATE INFO ALREADY IN A TABLE.

```
mysql> UPDATE [table name] SET [col1] = '[value1]',[col2] = '[value2]',[coln] = '[valuen]' where [field name] = [value];
```

DELETE A ROW(S) FROM A TABLE.

```
mysql> DELETE from [table name] where [field name] = 'whatever';
```

DELETE A COLUMN.

```
mysql> alter table [table name] drop column [column name];
```

ADD A NEW COLUMN TO DB.

```
mysql> alter table [table name] add column [new column name] varchar (20);
```

CHANGE COLUMN NAME.

```
mysql> alter table [table name] change [old column name] [new column name] varchar (50);
```

MAKE A UNIQUE COLUMN SO YOU GET NO DUPES.

```
mysql> alter table [table name] add unique ([column name]);
```

MAKE A COLUMN BIGGER.

```
mysql> alter table [table name] modify [column name] VARCHAR(3);
```

DELETE UNIQUE FROM TABLE.

```
mysql> alter table [table name] drop index [column name];
```