

SQL Dasar

Perintah- perintah dasar membuat DATABASE

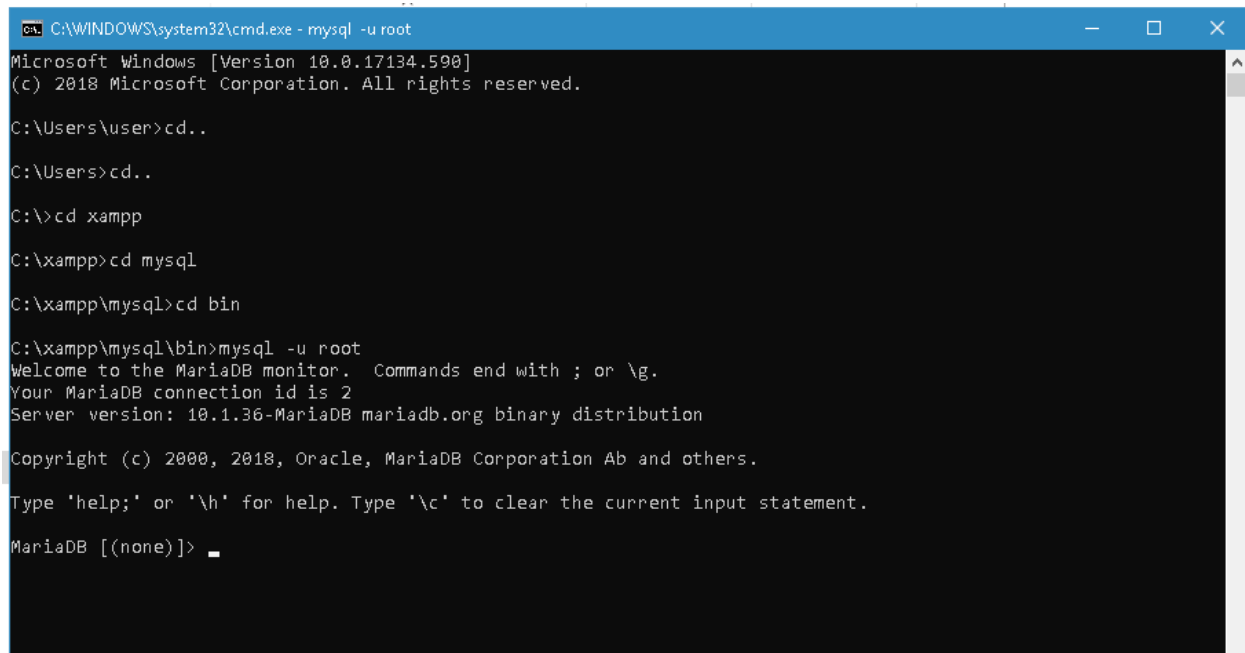
Perintah untuk masuk ke root MYSQL yang ada di XAMPP menggunakan CMD

cd xampp

cd mysql

cd bin

mysql -u root



```
C:\WINDOWS\system32\cmd.exe - mysql -u root
Microsoft Windows [Version 10.0.17134.590]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\user>cd..
C:\Users>cd..
C:\>cd xampp
C:\xampp>cd mysql
C:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.36-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> _
```

Kemudian perintah membuat database

CREATE DATABASE latihan;



```
C:\WINDOWS\system32\cmd.exe - mysql -u root

MariaDB [(none)]> CREATE DATABASE latihan;
Query OK, 1 row affected (0.01 sec)

MariaDB [(none)]>
```

Perintah menggunakan atau mengganti DATABASE

USE latihan;

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [(none)]> USE latihan;
Database changed
MariaDB [latihan]> _
```

Perintah menghapus DATABASE

DROP DATABASE latihan;

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [latihan]> DROP DATABASE latihan;
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> _
```

Perintah menampilkan database yaitu:

SHOW DATABASES;

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
Database changed
MariaDB [latihan]> SHOW DATABASES;
+-----+
| Database |
+-----+
| data     |
| information_schema |
| kuliah   |
| latihan   |
| latihan01 |
| latihan03 |
| latihan04 |
| latihan05 |
| mysql    |
| peliharaan |
| performance_schema |
| phpmyadmin |
| test     |
+-----+
13 rows in set (0.21 sec)

MariaDB [latihan]>
```

Perintah membuat tabel tapi pastikan database nya aktif

CREATE TABLE mahasiswa (nama VARCHAR(30), kelas INT(20));

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
+-----+
13 rows in set (0.21 sec)

MariaDB [latihan]> CREATE TABLE mahasiswa (nama VARCHAR(30), kelas VARCHAR(20));
Query OK, 0 rows affected (0.24 sec)

MariaDB [latihan]>
```

Perintah untuk mengecek tabel yang sudah di buat

DESCRIBE mahasiswa;

Atau

DESC mahasiswa;

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [latihan]> CREATE TABLE mahasiswa (nama VARCHAR(30), kelas VARCHAR(20));
Query OK, 0 rows affected (0.24 sec)

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+
| nama  | varchar(30)   | YES  |     | NULL    |       |
| kelas | varchar(20)   | YES  |     | NULL    |       |
+-----+
2 rows in set (0.10 sec)

MariaDB [latihan]>
```

Perintah ALTER yaitu perintah perubahan pada tabel diantaranya:

Menambah *field*

Mengubah nama *field*

Mengubah tipe data

Menghapus *field*

Menambahkan *index* atau *key*

Menghapus *index* atau *key*

Menambah *constraint*

Menghapus *constraint*

Perintah ALTER Menambahkan field

ALTER TABLE mahasiswa ADD COLUMN id INT (15) FIRST;

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.10 sec)

MariaDB [latihan]> ALTER TABLE mahasiswa ADD COLUMN id int(15)FIRST;
Query OK, 0 rows affected (0.32 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int(15)       | YES  |     | NULL    |       |
| nama  | varchar(30)   | YES  |     | NULL    |       |
| kelas | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)

MariaDB [latihan]>
```

Perintah Mengubah nama *field*

ALTER TABLE mahasiswa CHANGE nama nama_siswa VARCHAR(35);

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
3 rows in set (0.02 sec)

MariaDB [latihan]> ALTER TABLE mahasiswa CHANGE nama nama_siswa VARCHAR(35);
Query OK, 0 rows affected (0.46 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int(15)       | YES  |     | NULL    |       |
| nama_siswa | varchar(35)   | YES  |     | NULL    |       |
| kelas      | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.12 sec)

MariaDB [latihan]> _
```

Perintah ALTER Mengubah tipe data

ALTER TABLE mahasiswa MODIFY kelas VARCHAR(20);

```
C:\WINDOWS\system32\cmd.exe - mysql -u root

MariaDB [latihan]> ALTER TABLE mahasiswa MODIFY kelas VARCHAR(20);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int(15)       | YES  |     | NULL    |       |
| nama_siswa | varchar(35)   | YES  |     | NULL    |       |
| kelas      | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)

MariaDB [latihan]> _
```

Perintah ALTER Menghapus *field*

ALTER TABLE mahasiswa DROP kelas;

```
C:\WINDOWS\system32\cmd.exe - mysql -u root

+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)

MariaDB [latihan]> ALTER TABLE mahasiswa DROP kelas;
Query OK, 0 rows affected (0.36 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int(15)       | YES  |     | NULL    |       |
| nama_siswa | varchar(35)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.03 sec)

MariaDB [latihan]>
```

Perintah ALTER Menambahkan *index* atau *key*

ALTER TABLE mahasiswa ADD PRIMARY KEY (id);

```
C:\WINDOWS\system32\cmd.exe - mysql -u root

MariaDB [latihan]> ALTER TABLE mahasiswa ADD PRIMARY KEY(id);
Query OK, 0 rows affected (0.38 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int(15)   | NO   | PRI | NULL    |       |
| nama_siswa | varchar(35)| YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.06 sec)

MariaDB [latihan]>
```

Perintah ALTER Menghapus *index* atau *key*

ALTER TABLE mahasiswa DROP PRIMARY KEY;

```
C:\WINDOWS\system32\cmd.exe - mysql -u root

2 rows in set (0.06 sec)

MariaDB [latihan]> ALTER TABLE mahasiswa DROP PRIMARY KEY;
Query OK, 0 rows affected (0.37 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int(15)   | NO   |     | NULL    |       |
| nama_siswa | varchar(35)| YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.04 sec)

MariaDB [latihan]>
```

Perintah ALTER Menambah *constraint*

ALTER TABLE mahasiswa ADD CONSTRAINT UNIQUE KEY (nama_siswa);

```
C:\WINDOWS\system32\cmd.exe - mysql -u root
MariaDB [latihan]> ALTER TABLE mahasiswa ADD CONSTRAINT UNIQUE KEY(nama_siswa);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan]> DESCRIBE mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int(15)       | NO   |     | NULL    |       |
| nama_siswa | varchar(35)   | YES  | UNI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.03 sec)

MariaDB [latihan]> _
```