

1. Membuat database Tugas 1

```
Microsoft Windows [Version 6.1.7601]
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C:\Users\L420>cd/

C:\>cd
C:\>

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 28
Server version: 10.4.6-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)]> create database tugas1;
Query OK, 1 row affected (0.016 sec)
```

2. Mengaktifkan database

```
MariaDB [RizkiMaulanaK1]> use Tugas1;
Database changed
MariaDB [Tugas1]>
```

3. Membuat table Tugas1

```
MariaDB [tugas1]> create table mahasiswa(
-> NPM varchar(20),
-> Nama varchar(15),
-> Alamat varchar(15));
Query OK, 0 rows affected (0.704 sec)

MariaDB [tugas1]> create table Matakuliah(
-> KD_MK varchar,
-> Nama_MK varchar:
-> ;
ERROR 1064 (42000): 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 '
Nama_MK varchar:' at line 2
MariaDB [tugas1]> create table Matakuliah(
-> KD_MK varchar(10),
-> Nama_MK varchar(15),
-> SKS varchar(5));
Query OK, 0 rows affected (0.318 sec)

MariaDB [tugas1]> create table Nilai(
-> NPM varchar(15),
-> KD_MK varchar(10),
-> UTS integer(5),
-> UAS integer(5));
Query OK, 0 rows affected (0.219 sec)
```

4. Menampilkan seluruh database

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
| tugas1 |
+-----+
5 rows in set (0.002 sec)

MariaDB [(none)]> use tugas1;
Database changed
MariaDB [tugas1]> create table mahasiswa;
ERROR 1113 (42000): A table must have at least 1 column
```

- Menampilkan seluruh tabel

```
MariaDB [Tugas1]> Select*from Mahasiswa;
```

NPM	Nama	Tgl_Lahir	Alamat
201143500439	Andi	NULL	Jakarta
201143500121	Desi	NULL	Bekasi
201143500234	Endah	NULL	Depok
201143500165	Firdaus	NULL	Jakarta
201143500228	Gandi	NULL	Depok
201143500228	Gandi	NULL	Depok

```
6 rows in set (0.001 sec)
```

```
MariaDB [Tugas1]> Select*from MT_kuliah;
```

KD_MK	NM_MK	SKS
KK021	Sistem basis data	2
KD132	interaksi manusia komputer	3
KU122	Ilmu Budaya dasar	3

```
3 rows in set (0.001 sec)
```

```
MariaDB [Tugas1]> Select*from Nilai;
```

NPM	KD_MK	UTS	UAS
201143500439	KK021	60	75
201143500121	KD123	70	90
201143500234	KD021	50	40
201143500165	KU122	90	80
201143500228	KU122	75	75
201143500326	KD123	80	0
201143500439	KD123	40	30

```
7 rows in set (0.001 sec)
```

- Menampilkan seluruh tabel mata kuliah

```
MariaDB [Tugas1]> Select*from MT_kuliah;
```

KD_MK	NM_MK	SKS
KK021	Sistem basis data	2
KD132	interaksi manusia komputer	3
KU122	Ilmu Budaya dasar	3

```
3 rows in set (0.001 sec)
```

- menghapus tabel Matakuliah

```
MariaDB [tugas1]> drop table Matakuliah;
```

```
Query OK, 0 rows affected (0.208 sec)
```

- membuat tabel Matakuliah

```
MariaDB [tugas1]> create table Matakuliah(
-> KD_MK varchar(10),
-> Nama_MK varchar(15),
-> SKS varchar(5));
```

```
Query OK, 0 rows affected (0.227 sec)
```

- mengganti tabel Matakuliah dengan MT_Kuliah

```
MariaDB [tugas1]> alter table Matakuliah change MT_Kuliah;
```

```
ERROR 1064 (42000): 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 ''t line 1
```

```
MariaDB [tugas1]> alter table Matakuliah rename MT_Kuliah;
```

```
Query OK, 0 rows affected (0.239 sec)
```

```
MariaDB [tugas1]> desc MT_Kuliah;
```

Field	Type	Null	Key	Default	Extra
KD_MK	varchar(10)	YES		NULL	
Nama_MK	varchar(15)	YES		NULL	
SKS	varchar(5)	YES		NULL	

```
3 rows in set (0.044 sec)
```

10. mengganti nama field Nama_MK dengan NM_MK dan panjang field 30

```
MariaDB [tugas1]> alter table MT_Kuliah change Nama_MK
-> NM_MK varchar(30);
Query OK, 0 rows affected (0.127 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> desc MT_Kuliah
-> ;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| KD_MK | varchar(10)   | YES  |     | NULL    |      |
| NM_MK | varchar(30)   | YES  |     | NULL    |      |
| SKS   | varchar(5)    | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
3 rows in set (0.041 sec)
```

11. menambahkan kolom Tgl_Lahir pada tabel Mahasiswa

```
MariaDB [tugas1]> alter table Mahasiswa add column Tgl_Lahir varchar(25);
Query OK, 0 rows affected (0.139 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> desc Mahasiswa;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| NPM    | varchar(20)   | YES  |     | NULL    |      |
| Nama   | varchar(15)   | YES  |     | NULL    |      |
| Alamat | varchar(15)   | YES  |     | NULL    |      |
| Tgl_Lahir | varchar(25) | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
4 rows in set (0.043 sec)
```

12. menghapus kolom Tgl_Lahir

```
MariaDB [tugas1]> alter table Mahasiswa drop Tgl_Lahir;
Query OK, 0 rows affected (0.127 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> desc Mahasiswa
-> ;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| NPM    | varchar(20)   | YES  |     | NULL    |      |
| Nama   | varchar(15)   | YES  |     | NULL    |      |
| Alamat | varchar(15)   | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
3 rows in set (0.039 sec)
```

13. menambahkan kolom Tgl_Lahir pada tabel Mahasiswa pada awal field

```
MariaDB [tugas1]> alter table Mahasiswa add column Tgl_Lahir varchar(30);
Query OK, 0 rows affected (0.167 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> desc Mahasiswa;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| NPM    | varchar(20)   | YES  |     | NULL    |      |
| Nama   | varchar(15)   | YES  |     | NULL    |      |
| Alamat | varchar(15)   | YES  |     | NULL    |      |
| Tgl_Lahir | varchar(30) | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
4 rows in set (0.046 sec)
```

14. menghapus kolom Tgl_Lahir

```
ERROR 1060 (42S21): Duplicate column name 'Tgl_Lahir'
MariaDB [tugas1]> alter table Mahasiswa drop Tgl_Lahir;
Query OK, 0 rows affected (0.145 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

15. menambahkan kolom Tgl_Lahir pada tabel Mahasiswa setelah kolom nama

```
MariaDB [tugas1]> alter table Mahasiswa add column Tgl_Lahir varchar(25) afte
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual th
corresponds to your MariaDB server version for the right syntax to use near '
t line 1
MariaDB [tugas1]> alter table Mahasiswa add column Tgl_Lahir varchar(25)
-> after nama;
Query OK, 0 rows affected (0.112 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> desc Mahasiswa;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| NPM    | varchar(20)   | YES  |     | NULL    |      |
| Nama   | varchar(15)   | YES  |     | NULL    |      |
| Tgl_Lahir | varchar(25) | YES  |     | NULL    |      |
| Alamat | varchar(15)   | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
4 rows in set (0.039 sec)
```

