

## 1. Cara membuat database

```
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 9
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)]> creat database RizkiMk;
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 'cre
at database RizkiMk' at line 1
MariaDB [(none)]> create database RizkiMaulanaK;
Query OK, 1 row affected (0.016 sec)
```

## 2. Cara mengaktifkan database

```
MariaDB [(none)]> use RizkiMaulanaK;
Database changed
```

## 3. Membuat table Anggota,Pinjam, Daftar buku

```
MariaDB [RizkiMaulanaK]> desc tables;
ERROR 1146 (42S02): Table 'rizkimaulanak.tables' doesn't exist
MariaDB [RizkiMaulanaK]> desc Anggota;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Anggota | varchar(15) | YES | | NULL | |
| Nama_Anggota | varchar(15) | YES | | NULL | |
| Alamat | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.048 sec)

MariaDB [RizkiMaulanaK]> desc Pinjam;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Anggota | varchar(15) | YES | | NULL | |
| Judul_Buku | varchar(15) | YES | | NULL | |
| Tgl_Pinjam | varchar(15) | YES | | NULL | |
| Tgl_Kembali | varchar(15) | YES | | NULL | |
| Denda | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.042 sec)

MariaDB [RizkiMaulanaK]> desc DaftarBuku;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Buku | varchar(15) | YES | | NULL | |
| Judul_Buku | varchar(15) | YES | | NULL | |
| Pengarang | varchar(15) | YES | | NULL | |
| Jumlah | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.042 sec)
```

## 4. Mengubah nama tabel dari DaftarBuku menjadi Buku

```
MariaDB [RizkiMaulanaK]> alter table DaftarBuku rename Buku;
Query OK, 0 rows affected (0.302 sec)

MariaDB [RizkiMaulanaK]> Desc Buku;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Buku | varchar(15) | YES | | NULL | |
| Judul_Buku | varchar(15) | YES | | NULL | |
| Pengarang | varchar(15) | YES | | NULL | |
| Jumlah | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.045 sec)
```

5. Mengubah Judul file dengan mengganti dari Judul\_Buku menjadi Judul

```
MariaDB [RizkiMaulanaK1] > alter table Pinjam,Buku change Judul_Buku
-> Judul varchar(10);
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 'Buk
u change Judul_Buku
Judul varchar(10)' at line 1
MariaDB [RizkiMaulanaK1] > alter table Pinjam change Judul_Buku
-> Judul varchar(15);
Query OK, 0 rows affected (0.219 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [RizkiMaulanaK1] > alter table Buku change Judul_Buku
-> Judul varchar(15);
Query OK, 0 rows affected (0.105 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [RizkiMaulanaK1] > Desc Pinjam
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Anggota | varchar(15) | YES | | NULL | |
| Judul | varchar(15) | YES | | NULL | |
| Tgl_Pinjam | varchar(15) | YES | | NULL | |
| Tgl_Kembali | varchar(15) | YES | | NULL | |
| Denda | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.090 sec)

MariaDB [RizkiMaulanaK1] > Desc Buku;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Buku | varchar(15) | YES | | NULL | |
| Judul | varchar(15) | YES | | NULL | |
| Pengarang | varchar(15) | YES | | NULL | |
| Jumlah | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.044 sec)
```

6. menambahkan field Kd\_Buku pada tabel Pinjam setelah field Kd\_Anggota

```
MariaDB [RizkiMaulanaK1] > alter table Pinjam,Buku change Judul_Buku
-> Judul varchar(10);
MariaDB [RizkiMaulanaK1] > desc Pinjam
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Anggota | varchar(15) | YES | | NULL | |
| Kd_Buku | varchar(10) | YES | | NULL | |
| Judul | varchar(15) | YES | | NULL | |
| Tgl_pinjam | date | YES | | NULL | |
| Tgl_Kembali | date | YES | | NULL | |
| Denda | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.103 sec)
```

7. menambahkan primary key pada tabel

```
ERROR 1060 (42S21): Duplicate column name 'Kd_Anggota'
MariaDB [RizkiMaulanaK1] > alter table Anggota add primary key(Kd_Anggota);
Query OK, 0 rows affected (0.534 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [RizkiMaulanaK1] > alter table Buku add primary key(Kd_Buku);
Query OK, 0 rows affected (0.592 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [RizkiMaulanaK1] > Desc Anggota;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Anggota | varchar(15) | NO | PRI | NULL | |
| Nama_Anggota | varchar(15) | YES | | NULL | |
| Alamat | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.040 sec)

MariaDB [RizkiMaulanaK1] > desc Buku;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Buku | varchar(15) | NO | PRI | NULL | |
| Judul | varchar(15) | YES | | NULL | |
| Pengarang | varchar(15) | YES | | NULL | |
| Jumlah | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.045 sec)
```

8. menambahkan size field Judul menjadi Judul size 40 pada tabel Buku

```
MariaDB [RizkiMaulanaK1] > alter table Buku change Judul
-> judul varchar(40);
Query OK, 0 rows affected (0.124 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [RizkiMaulanaK1] > desc Buku;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Buku | varchar(15) | NO | PRI | NULL | |
| judul | varchar(40) | YES | | NULL | |
| Pengarang | varchar(15) | YES | | NULL | |
| Jumlah | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.048 sec)
```

9. menambahkan field "Penerbit" pada tabel Buku setelah field "Pengarang"

```
ERROR 1054 (42S22): Unknown column 'Penerbit' in 'Buku'
MariaDB [RizkiMaulanaK1] > alter table Buku Add column Penerbit varchar(10)
-> after Pengarang;
Query OK, 0 rows affected (0.063 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [RizkiMaulanaK1] > desc Buku;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kd_Buku | varchar(15) | NO | PRI | NULL | |
| judul | varchar(40) | YES | | NULL | |
| Pengarang | varchar(15) | YES | | NULL | |
| Penerbit | varchar(10) | YES | | NULL | |
| Jumlah | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.044 sec)
```

10. menambahkan file di dalam tabel

```
MariaDB [RizkiMaulanaK1] > insert into Buku(Kd_Buku,Judul,Pengarang,Penerbit,Jumlah)values
-> ('BK001','Algoritma dan Pemrograman Menggunakan Java','Abdul Kadir','Andi Offset','23'),
-> ('BK002','Kriptografi Untuk Keamanan jaringan','Rifki Sadikin','Andi Offset','15'),
-> ('BK003','Seluk buluk Database Relasional<Edisi kedua>','Mark Whitehorn dan Bill Marklyn','Erlangga','12');
Query OK, 3 rows affected, 3 warnings (0.372 sec)
Records: 3 Duplicates: 0 Warnings: 3

MariaDB [RizkiMaulanaK1] > Select*from Buku;
+-----+-----+-----+-----+-----+
| Kd_Buku | judul | Pengarang | Penerbit | Jumlah |
+-----+-----+-----+-----+-----+
| BK001 | Algoritma dan Pemrograman Menggunakan Ja | Abdul Kadir | Andi Of | 23 |
| BK002 | Kriptografi Untuk Keamanan jaringan | Rifki Sadikin | Andi Of | 15 |
| BK003 | Seluk buluk Database Relasional<Edisi ke | Mark Whitehorn | Erlangg | 12 |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```