

Langkah-langkah membuat tabel pada XAMPP shell.

1.

```
MariaDB [(none)]> create database latihan2;
```

membuat database baru

2.

```
MariaDB [(none)]> use latihan2;
```

Database changed

command untuk menggunakan database yang baru dibuat yaitu "latihan2"

3.

```
MariaDB [latihan2]> create table biodata (nama varchar(100), alamat text);
```

Query OK, 0 rows affected (0.084 sec)

membuat tabel baru bernama "biodata" yang ber isi nama dengan tipe data varchar dan alamat bertipe data text.

4.

```
MariaDB [latihan2]> alter table biodata add column keterangan varchar(15);
```

Query OK, 0 rows affected (0.006 sec)

menambahkan kolom baru yaitu keterangan dengan tipe data varchar

5.

```
MariaDB [latihan2]> desc biodata;
```

Field	Type	Null	Key	Default	Extra
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
keterangan	varchar(15)	YES		NULL	

3 rows in set (0.006 sec)

tampilan tabel setelah ditambahkan kolom keterangan. menggunakan command desc "nama tabel" untuk menampilkan tabel (edited)

6.

```
MariaDB [latihan2]> alter table biodata add column id int(11) first;
```

Query OK, 0 rows affected (0.005 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [latihan2]> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
keterangan	varchar(15)	YES		NULL	

4 rows in set (0.005 sec)

menambahkan kolom id di urutan pertama dengan menambahkan command FIRST (edited)

7.

```
MariaDB [latihan2]> alter table biodata add column phone varchar(15) after alamat;
Query OK, 0 rows affected (0.005 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [latihan2]> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
phone	varchar(15)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.005 sec)

menambahkan kolom phone setelah kolom alamat dengan command AFTER

8.

```
MariaDB [latihan2]> alter table biodata modify column id char(11);
Query OK, 0 rows affected (0.018 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [latihan2]> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
phone	varchar(15)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.006 sec)

merubah tipe data kolom id menjadi char(11).

9.

```
MariaDB [latihan2]> alter table biodata change phone hp varchar(20);
Query OK, 0 rows affected (0.004 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [latihan2]> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
hp	varchar(20)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.006 sec)

merubah nama kolom phone menjadi hp

10.

```
MariaDB [latihan2]> alter table biodata add column email varchar(40) after hp;
Query OK, 0 rows affected (0.005 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan2]> desc biodata;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | char(11)      | YES  |     | NULL    |       |
| nama  | varchar(100)  | YES  |     | NULL    |       |
| alamat | text          | YES  |     | NULL    |       |
| hp    | varchar(20)   | YES  |     | NULL    |       |
| email | varchar(40)   | YES  |     | NULL    |       |
| keterangan | varchar(15) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.007 sec)
```

menambahkan kolom email setelah kolom hp.

11.

```
MariaDB [latihan2]> alter table biodata drop column keterangan;
Query OK, 0 rows affected (0.005 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan2]> desc biodata;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | char(11)      | YES  |     | NULL    |       |
| nama  | varchar(100)  | YES  |     | NULL    |       |
| alamat | text          | YES  |     | NULL    |       |
| hp    | varchar(20)   | YES  |     | NULL    |       |
| email | varchar(40)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.005 sec)
```

menghapus kolom keterangan.

12.

```
MariaDB [latihan2]> rename table biodata to data_mahasiswa;
Query OK, 0 rows affected (0.004 sec)

MariaDB [latihan2]> desc biodata;
ERROR 1146 (42S02): Table 'latihan2.biodata' doesn't exist
MariaDB [latihan2]> desc data_mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | char(11)      | YES  |     | NULL    |       |
| nama  | varchar(100)  | YES  |     | NULL    |       |
| alamat | text          | YES  |     | NULL    |       |
| hp    | varchar(20)   | YES  |     | NULL    |       |
| email | varchar(40)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.005 sec)
```

mengganti nama tabel menjadi data\_mahasiswa.

13.

```
MariaDB [latihan2]> alter table data_mahasiswa change id nim varchar(255);
Query OK, 0 rows affected (0.012 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan2]> desc data_mahasiswa;
```

Field	Type	Null	Key	Default	Extra
nim	varchar(255)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
hp	varchar(20)	YES		NULL	
email	varchar(40)	YES		NULL	

5 rows in set (0.006 sec)

merubah field ID menjadi NIM

14.

```
MariaDB [latihan2]> alter table data_mahasiswa add primary key(nim);
Query OK, 0 rows affected (0.011 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan2]> desc data_mahasiswa;
```

Field	Type	Null	Key	Default	Extra
nim	varchar(255)	NO	PRI	NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
hp	varchar(20)	YES		NULL	
email	varchar(40)	YES		NULL	

5 rows in set (0.005 sec)

menambahkan primary key pada kolom nim

15.

```
MariaDB [latihan2]> alter table data_mahasiswa add constraint unique_email unique (email);
Query OK, 0 rows affected (0.005 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [latihan2]> desc data_mahasiswa;
```

Field	Type	Null	Key	Default	Extra
nim	varchar(255)	NO	PRI	NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
hp	varchar(20)	YES		NULL	
email	varchar(40)	YES	UNI	NULL	

5 rows in set (0.007 sec)

menjadikan kolom email sebagai unique key