


```
MariaDB [db_polinema]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | int(8) | NO | PRI | NULL | |
| nama_mhs | varchar(50) | YES | | NULL | |
| jenis_kelamin | enum('L','P') | YES | | L | |
| alamat | varchar(50) | YES | | NULL | |
| agama | varchar(10) | YES | | NULL | |
| kota | varchar(20) | YES | | Malang | |
| asal_sma | varchar(30) | YES | | NULL | |
| no_hp | varchar(12) | YES | | NULL | |
| umur | int(11) | YES | | NULL | |
| kode_prodi | char(6) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.008 sec)

MariaDB [db_polinema]> ALTER TABLE mahasiswa DROP COLUMN asal_sma;
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 'asal_sma' at line 1
MariaDB [db_polinema]> ALTER TABLE mahasiswa DROP COLUMN asal_sma;
Query OK, 0 rows affected (0.019 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [db_polinema]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | int(8) | NO | PRI | NULL | |
| nama_mhs | varchar(50) | YES | | NULL | |
| jenis_kelamin | enum('L','P') | YES | | L | |
| alamat | varchar(50) | YES | | NULL | |
| agama | varchar(10) | YES | | NULL | |
| kota | varchar(20) | YES | | Malang | |
| no_hp | varchar(12) | YES | | NULL | |
| umur | int(11) | YES | | NULL | |
| kode_prodi | char(6) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.006 sec)

MariaDB [db_polinema]> SELECT * FROM mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+-----+
| nim | nama_mhs | jenis_kelamin | alamat | agama | kota | no_hp | umur | kode_prodi |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 2147483647 | Koestiyawati | P | Jatis | Islam | Mojokerto | 088217143157 | 20 | 1A-MI |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [db_polinema]>
```

localhost / 127.0.0.1 / db_polinema

localhost/phpmyadmin/index.php?route=/database/structure&db=db_polinema

Server: 127.0.0.1 » Database: db_polinema

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> dosen		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> mahasiswa		1	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> mata_kuliah		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> prodi		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> ruang		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
5 tables Sum		5	InnoDB	utf8mb4_general_ci	96.0 KiB	0 B

☐ Check all With selected:

Create new table

Table name: Number of columns:

Tugas 1

```
Command Prompt - mysql -u root -p

MariaDB [(none)]> CREATE DATABASES akademik;
ERROR 1106 (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 'DATABASES akademik' at line 1
MariaDB [(none)]> CREATE DATABASE akademik;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> USE akademik;
Database changed
MariaDB [akademik]> SELECT * FROM mahasiswa;
ERROR 1146 (42502): Table 'akademik.mahasiswa' doesn't exist
MariaDB [akademik]> CREATE TABLE mahasiswa (No_mhs int(7) primary key, Nama_mhs varchar(50) NOT NULL);
Query OK, 0 rows affected (0.023 sec)

MariaDB [akademik]> CREATE TABLE mata_kuliah (Kd_mk varchar(5) primary key, Nama_mk varchar(50) NOT NULL);
Query OK, 0 rows affected (0.018 sec)

MariaDB [akademik]> CREATE TABLE nilai (No_mhs int(7), Kode_mk varchar(5));
Query OK, 0 rows affected (0.016 sec)

MariaDB [akademik]> ALTER TABLE mahasiswa ADD COLUMN Jurusan enum('MI', 'TI') default 'MI' AFTER Nama_mhs;
Query OK, 0 rows affected (0.010 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> CREATE TABLE dosen (Kd_dosen varchar(4) primary key, Nama_dosen varchar(50) NOT NULL);
Query OK, 0 rows affected (0.020 sec)

MariaDB [akademik]> ALTER TABLE mata_kuliah ADD COLUMN Kode_dosen varchar(4) AFTER Nama_mk;
Query OK, 0 rows affected (0.017 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> ALTER TABLE mata_kuliah ADD CONSTRAINT fk_kd_dosen FOREIGN KEY (Kode_dosen) REFERENCES Dosen(Kd_dosen);
Query OK, 0 rows affected (0.054 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> ALTER TABLE nilai ADD CONSTRAINT fk_kode_mk FOREIGN KEY (Kode_mk) REFERENCES mata_kuliah(Kd_mk);
Query OK, 0 rows affected (0.053 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> ALTER TABLE nilai ADD COLUMN nilai FLOAT(5,2) AFTER Kode_mk;
Query OK, 0 rows affected (0.010 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> SHOW TABLES;
+-----+
| Tables_in_akademik |
+-----+
| dosen               |
| mahasiswa           |
| mata_kuliah         |
| nilai               |
+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [akademik]> SELECT * FROM mahasiswa;
+-----+-----+-----+
| No_Mhs | Nama_mhs | Jurusan |
+-----+-----+-----+
| 1921001 | Aminah   | MI       |
| 1921002 | Budiman  | MI       |
| 1921003 | Carina   | MI       |
| 1921004 | Della    | TI       |
| 1921005 | Firda    | TI       |
+-----+-----+-----+
5 rows in set (0.020 sec)

MariaDB [akademik]> SELECT * FROM dosen;
+-----+-----+
| Kd_Dosen | Nm_Dosen |
+-----+-----+
| B104     | Ati      |
| B105     | Dita     |
| C102     | Leo      |
+-----+-----+
3 rows in set (0.001 sec)

MariaDB [akademik]> SELECT * FROM mata_kuliah;
+-----+-----+-----+
| Kd_MK | Nama_MK | Kd_Dosen |
+-----+-----+-----+
| MI350 | Basis Data | B104     |
| MI465 | Pemrograman | B105     |
| TI201 | Mobile    | C102     |
+-----+-----+-----+
3 rows in set (0.043 sec)

MariaDB [akademik]> SELECT * FROM nilai;
+-----+-----+-----+
| No_Mhs | Kd_MK | nilai |
+-----+-----+-----+
| 1921001 | MI350 | 85    |
| 1921002 | MI465 | 87    |
| 1921003 | MI465 | 85    |
| 1921004 | TI201 | 78    |
| 1921005 | TI201 | 80    |
+-----+-----+-----+
5 rows in set (0.072 sec)
```

Tugas 2

```
MariaDB [pegawai]> SELECT * FROM Pegawai;
```

Nopegawai	NamaPegawai	Golongan
Peg01	Anton	A
Peg02	Paula	B
Peg03	Daniar	C
Peg04	Lubis	C
Peg05	Anton	A
Peg06	Koko	C
Peg07	Kenji	B
Peg08	Sofi	B
Peg09	Yuni	C
Peg12	Sita	B
Peg14	Yusni	B
Peg15	Udin	D
Peg16	Didit	D
Peg17	Dani	D

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

```
MariaDB [pegawai]> SELECT * FROM Golongan;
```

Golongan	BesarGaji
A	1000000
B	900000
C	750000
D	500000

```
4 rows in set (0.000 sec)
```

```
MariaDB [pegawai]> SELECT * FROM Proyek;
```

Noprojek	NamaProyek
NP001	BRR
NP002	PEMDA
NP003	CBR
NP004	ASK
NP005	OB

```
5 rows in set (0.000 sec)
```

```
MariaDB [pegawai]> SELECT * FROM Proyekpegawai;
```

Noprojek	Nopegawai
NP001	Peg01
NP001	Peg02
NP001	Peg06
NP002	Peg01
NP002	Peg12
NP002	Peg14
NP003	Peg02
NP003	Peg03
NP003	Peg04
NP004	Peg07
NP004	Peg08
NP004	Peg06
NP005	Peg15
NP005	Peg16
NP005	Peg17

```
15 rows in set (0.000 sec)
```

```
MariaDB [pegawai]> _
```