

### Mahasiswa

NPM	Nama	Alamat
201143500439	Andi	Jakarta
201143500121	Desi	Bekasi
201143500234	Endah	Depok
201143500165	Firdaus	Jakarta
201143500228	Gandi	Depok
201143500326	Hilda	Bogor

### Matakuliah

KD_MK	Nama_MK	SKS
KK021	Sistem Basis Data	2
KD132	Interaksi Manusia Komputer	3
KU122	Ilmu Budaya Dasar	2

### Nilai

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

1. Buatlah Database Tugas1

```
MariaDB [(none)]> CREATE DATABASE tugas1;  
Query OK, 1 row affected (0.003 sec)  
  
MariaDB [(none)]> _
```

2. Aktifkan database

```
MariaDB [(none)]> USE tugas1;  
Database changed  
MariaDB [tugas1]> _
```

3. Buatlah 3 buah tabel diatas

```
MariaDB [tugas1]> CREATE TABLE mahasiswa(  
-> NPM varchar(20),  
-> NAMA varchar(100),  
-> ALAMAT varchar(100));  
Query OK, 0 rows affected (0.925 sec)  
  
MariaDB [tugas1]> CREATE TABLE matakuliah(  
-> kd_mk varchar(25),  
-> nama_mk varchar(100),  
-> sks int(10));  
Query OK, 0 rows affected (0.771 sec)  
  
MariaDB [tugas1]> CREATE TABLE nilai(  
-> npm varchar(25),  
-> kd_mk varchar(25),  
-> uts int(25),  
-> uas int(25));  
Query OK, 0 rows affected (0.769 sec)  
  
MariaDB [tugas1]>
```

4. Tampilkan seluruh database

```
MariaDB [tugas1]> SHOW DATABASES;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| nama_database |  
| performance_schema |  
| phpmyadmin |  
| si |  
| test |  
| tugas1 |  
+-----+  
8 rows in set (0.022 sec)  
  
MariaDB [tugas1]> _
```



5. Tampilkan seluruh tabel

```
MariaDB [tugas1]> SHOW TABLES;
+-----+
| Tables_in_tugas1 |
+-----+
| mahasiswa        |
| matakuliah        |
| nilai            |
+-----+
3 rows in set (0.001 sec)

MariaDB [tugas1]>
```

6. Tampilkan struktur tabel Matakuliah

```
MariaDB [tugas1]> DESC matakuliah;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kd_mk | varchar(25)   | YES  |     | NULL    |       |
| nama_mk | varchar(100) | YES  |     | NULL    |       |
| sks   | int(10)       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.009 sec)

MariaDB [tugas1]>
```

7. Hapus tabel Matakuliah

```
MariaDB [tugas1]> DROP TABLE matakuliah;
Query OK, 0 rows affected (0.443 sec)

MariaDB [tugas1]>
```

8. Buat tabel Matakuliah

```
MariaDB [tugas1]> CREATE TABLE matakuliah(
-> kd_mk varchar(25),
-> nama_mk varchar(100),
-> sks int(10));
Query OK, 0 rows affected (0.446 sec)

MariaDB [tugas1]>
```

9. Ganti tabel Matakuliah dengan MT\_Kuliah

```
MariaDB [tugas1]> ALTER TABLE matakuliah rename MT_kuliah;
Query OK, 0 rows affected (0.520 sec)

MariaDB [tugas1]>
```



10. Ganti 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 (2.662 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [tugas1]> _
```

11. Tambahkan kolom Tgl\_lahir pada tabel Mahasiswa

```
MariaDB [tugas1]> ALTER TABLE mahasiswa ADD column tgl_lahir date;  
Query OK, 0 rows affected (0.163 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [tugas1]> DESC mahasiswa;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| NPM | varchar(20) | YES | | NULL | |  
| NAMA | varchar(100) | YES | | NULL | |  
| ALAMAT | varchar(100) | YES | | NULL | |  
| tgl_lahir | date | YES | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.011 sec)  
  
MariaDB [tugas1]> _
```

12. Hapus kolom Tgl\_lahir

```
MariaDB [tugas1]> ALTER TABLE mahasiswa DROP tgl_lahir;  
Query OK, 0 rows affected (0.196 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [tugas1]> DESC mahasiswa;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| NPM | varchar(20) | YES | | NULL | |  
| NAMA | varchar(100) | YES | | NULL | |  
| ALAMAT | varchar(100) | YES | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.004 sec)  
  
MariaDB [tugas1]> _
```



13. Tambahkan kolom Tgl\_Lahir pada tabel Mahasiswa pada awal field

```
3 rows in set (0.004 sec)

MariaDB [tugas1]> ALTER TABLE mahasiswa ADD column tgl_lahir date first;
Query OK, 0 rows affected (0.528 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| tgl_lahir  | date          | YES  |     | NULL    |       |
| NPM        | varchar(20)   | YES  |     | NULL    |       |
| NAMA       | varchar(100)  | YES  |     | NULL    |       |
| ALAMAT     | varchar(100)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.024 sec)

MariaDB [tugas1]> _
```

14. Hapus kolom Tgl\_Lahir

```
MariaDB [tugas1]> ALTER TABLE mahasiswa DROP tgl_lahir;
Query OK, 0 rows affected (0.188 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NPM        | varchar(20)   | YES  |     | NULL    |       |
| NAMA       | varchar(100)  | YES  |     | NULL    |       |
| ALAMAT     | varchar(100)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.004 sec)

MariaDB [tugas1]>
```

15. Tambahkan kolom Tgl\_Lahir pada tabel Mahasiswa setelah kolom nama

```
MariaDB [tugas1]> ALTER TABLE mahasiswa ADD column tgl_lahir date after nama;
Query OK, 0 rows affected (0.312 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugas1]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NPM        | varchar(20)   | YES  |     | NULL    |       |
| NAMA       | varchar(100)  | YES  |     | NULL    |       |
| tgl_lahir  | date          | YES  |     | NULL    |       |
| ALAMAT     | varchar(100)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.022 sec)

MariaDB [tugas1]> _
```