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Modul 4

Praktikum Sistem Basis Data

Tugas

Implementasikan hasil rancangan database mengenai data kuliah pada tugas modul 2 ke dalam program mysql.

```
MariaDB [universitas]> CREATE TABLE MAHASISWA(  
  -> nim VARCHAR(20) PRIMARY KEY,  
  -> nama VARCHAR(45) NOT NULL,  
  -> alamat VARCHAR(255) NOT NULL,  
  -> no_telp INTEGER NOT NULL  
  -> );  
Query OK, 0 rows affected (0.368 sec)  
  
MariaDB [universitas]> CREATE TABLE DOSEN(  
  -> id_dosen VARCHAR(20) PRIMARY KEY,  
  -> nama VARCHAR(45) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.293 sec)  
  
MariaDB [universitas]> CREATE TABLE RUANG_KELAS(  
  -> kode_ruang VARCHAR(20) PRIMARY KEY,  
  -> fasilitas VARCHAR(45) NOT NULL,  
  -> kapasitas INTEGER NOT NULL  
  -> );  
Query OK, 0 rows affected (0.316 sec)  
  
MariaDB [universitas]> CREATE TABLE MATA_KULIAH(  
  -> kode VARCHAR(20) PRIMARY KEY,  
  -> nama VARCHAR(45) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.227 sec)
```

```
MariaDB [universitas]> CREATE TABLE DOSEN_HAS_MAHASISWA(  
  -> id_dosen VARCHAR(20) NOT NULL,  
  -> nim VARCHAR(20) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.322 sec)  
  
MariaDB [universitas]> CREATE TABLE DOSEN_HAS_MATA_KULIAH(  
  -> id_dosen VARCHAR(20) NOT NULL,  
  -> kode VARCHAR(20) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.329 sec)  
  
MariaDB [universitas]> CREATE TABLE MAHASISWA_HAS_MATA_KULIAH(  
  -> nim VARCHAR(20) NOT NULL,  
  -> kode VARCHAR(20) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.311 sec)
```

```
MariaDB [universitas]> show tables;
```

Tables_in_universitas
dosen
dosen_has_mahasiswa
dosen_has_mata_kuliah
mahasiswa
mahasiswa_has_mata_kuliah
mata_kuliah
ruang_kelas

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

```
MariaDB [universitas]> describe DOSEN;
```

Field	Type	Null	Key	Default	Extra
id_dosen	varchar(20)	NO	PRI	NULL	
nama	varchar(45)	NO		NULL	

```
2 rows in set (0.040 sec)
```

```
MariaDB [universitas]> describe MAHASISWA;
```

Field	Type	Null	Key	Default	Extra
nim	varchar(20)	NO	PRI	NULL	
nama	varchar(45)	NO		NULL	
alamat	varchar(255)	NO		NULL	
no_telp	int(11)	NO		NULL	

```
4 rows in set (0.039 sec)
```

```
MariaDB [universitas]> describe MATA_KULIAH;
```

Field	Type	Null	Key	Default	Extra
kode	varchar(20)	NO	PRI	NULL	
nama	varchar(45)	NO		NULL	

```
2 rows in set (0.032 sec)
```

```
MariaDB [universitas]> describe RUANG_KELAS;
```

Field	Type	Null	Key	Default	Extra
kode_ruang	varchar(20)	NO	PRI	NULL	
fasilitas	varchar(45)	NO		NULL	
kapasitas	int(11)	NO		NULL	

3 rows in set (0.690 sec)

```
MariaDB [universitas]> describe DOSEN_HAS_MAHASISWA;
```

Field	Type	Null	Key	Default	Extra
id_dosen	varchar(20)	NO		NULL	
nim	varchar(20)	NO		NULL	

2 rows in set (0.035 sec)

```
MariaDB [universitas]> describe DOSEN_HAS_MATA_KULIAH;
```

Field	Type	Null	Key	Default	Extra
id_dosen	varchar(20)	NO		NULL	
kode	varchar(20)	NO		NULL	

2 rows in set (0.033 sec)

```
MariaDB [universitas]> describe MAHASISWA_HAS_MATA_KULIAH;
```

Field	Type	Null	Key	Default	Extra
nim	varchar(20)	NO		NULL	
kode	varchar(20)	NO		NULL	

2 rows in set (0.034 sec)