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## 1. Membuat database kuliah dan table dosen

```
Command Prompt - mysql -u root -p
D:\>cd D:\app\XAMPP\mysql\bin
D:\app\XAMPP\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.11-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)]> create database kuliah;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> create table dosen(
    -> nip_dosen integer primary key,-> nama_dosen varchar(50) not null,
    -> alamat_dosen varchar(255) not null);
Query OK, 0 rows affected (1.734 sec)
MariaDB [kuliah]>
```

2. Membuat table mata\_kuliah , mahasiswa, ruang, dosen\_has\_mahasiswa, mahasiswa has matkul, table dosen has matkul

```
Command Prompt - mysql -u root -p
MariaDB [kuliah]> create table mata_kuliah(
    -> kode_mk integer primary key,
-> nama_mk varchar(50) not null,
-> jumlah_mk integer default 0 not null);
Query OK, 0 rows affected (1.734 sec)
MariaDB [kuliah]> create table mahasiswa(
     -> nim_mhs varchar(20) primary key,
     -> nama_mhs varchar(45) not null,
     -> alamat_mhs varchar(255) not null,
     -> kode_ruangFK integer references ruang(kode_ruang) on delete set null on update cascade);
Query OK, 0 rows affected (0.405 sec)
MariaDB [kuliah]> create table ruang(
-> kode_ruang integer primary key,
-> nama_ruang varchar(50) not null,
-> kapasitas_ruang integer default 0 not null);
Query OK, 0 rows affected (0.052 sec)
MariaDB [kuliah]> create table dosen has mahasiswa(
    -> nip_dosenFK integer references dosen(nip_dosen)
-> on delete set null on update cascade,
-> nim_mhsFK varchar(20) references mahasiswa(nim_mhs)
     -> on delete set null on update cascade);
Query OK, 0 rows affected (1.738 sec)
MariaDB [kuliah]> create table mahasiswa_has_matkul(
     -> nim_mhsFK varchar(20) references mahasiswa(nim_mhs)
     -> on delete set null on update cascade,
    -> kode_mkFK integer references matkul(kode_mk)
-> on delete set null on update cascade,
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your Mari
aDB server version for the right syntax to use near ')' at line 6
MariaDB [kuliah]> create table mahasiswa_has_matkul(
     -> nim_mhsFK varchar(20) references mahasiswa(nim_mhs)
     -> on delete set null on update cascade,
-> kode_mkFK integer references matkul(kode_mk)
     -> on delete set null on update cascade);
Query OK, 0 rows affected (0.033 sec)
MariaDB [kuliah]> create table dosen_has_matkul(
     -> nip_dosenFK integer references dosen(nip_dosen)
     -> on delete set null on update cascade,
     -> kode_mkFK integer references matkul(kode_mk)
-> on delete set null on update cascade);
Query OK, 0 rows affected (0.052 sec)
MariaDB [kuliah]>
```

3. Show table dan describe per table

Command Prom	npt - mysql -	u root -	р					
+   Tables_in_kul:	+ iah							
+	kul							
7 rows in set (		e dos	en:					
+	+		+	+	t	C1+	+	+
Field +	Type +		+	Key +	De1	rault 	Extra	 +
	int(11)   varchar(50)   varchar(255) +		NO   NO   NO	PRI   	NUL   NUL   NUL	.L		
3 rows in set (	1.707 sec)						•	
MariaDB [kuliah	]> describ	e dos	en_has_r	nahasi	.swa;			
Field	Туре		Null	Key	Defau	ılt	Extra	
nip_dosenFK     nim_mhsFK	int(11)   varchar(20)		YES   YES	NULL NULL		İ		
2 rows in set (	0.005 sec)	+-	+-				+	
MariaDB [kuliah	]> describ	e dos	en_has_r	matku]	;			
Field	Туре	Null	Key	Defa	ult	Extr	+ a	
nip_dosenFK     kode_mkFK	int(11)   int(11)	YES YES	İ	NULL NULL				
2 rows in set (	0.004 sec)							
MariaDB [kuliah	]> describ	e mah	asiswa;					
Field	+   Type		Null	Key	Def	fault	Extra	Ĭ
nim_mhs   nama_mhs   alamat_mhs   kode_ruangFK +	varchar(   varchar(   varchar(   int(11)	45)	NO   NO   NO   NO   YES	PRI       	NUL NUL NUL NUL	T T	     	

Type	t		+	H
	Null	Key	Default	Extra
varchar(20) int(11)	YES YES		NULL   NULL	
	+		t   Default	 Fytra
				LACIU
		PRI		
varchar(50)	NO		NULL	
	int(11)  (0.004 sec) ah]> describe	int(11)   YES 	int(11)   YES   	int(11)   YES     NULL 