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## LAPORAN TUGAS PRAKTIKUM SISTEM BASIS DATA MODUL 4

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 Pron	mpt - mysql -u root	-р				
+	asiswa   kul   _matkul   _   0.001 sec)	sen;				
Field	Type	Null	Key	Default	Extra	
nip_dosen   nama_dosen   alamat_dosen	int(11)   varchar(50)   varchar(255)	NO   NO   NO	PRI   	NULL NULL NULL		
3 rows in set (	1.707 sec)	-+	+	+	+	
MariaDB [kuliah	]> describe dos	sen_has_	mahasi	swa;		
Field	Type	Null	Key	Default   I	Extra	
nip_dosenFK     nim_mhsFK	int(11)   varchar(20)	YES   YES		NULL   NULL		
++ 2 rows in set (	0.005 sec)	+-	+-		+	
MariaDB [kuliah	]> describe do:	sen_has_	matkul	;		
+   Field	Type   Null	l   Key	Defa	ult   Extra	a	
+   nip_dosenFK     kode_mkFK	int(11)   YES int(11)   YES		NULL NULL			
2 rows in set (	0.004 sec)	+	+		+	
MariaDB [kuliah	]> describe mah	nasiswa;				
Field	Type	Null	Key	+   Default	Extra	
+   nim_mhs   nama_mhs   alamat_mhs   kode_ruangFK	varchar(20)   varchar(45)   varchar(255)   int(11)	NO   NO   NO   NO   YES	PRI	+   NULL   NULL   NULL	   	

Command Prompt - mysql -u root -p									
MariaDB [kuliah]> describe mahasiswa_has_matkul;									
Field	Туре	Null	Key	Default	Extra				
nim_mhsFK     kode_mkFK	varchar(20) int(11)	YES YES		NULL NULL					
Trows in set (0.004 sec)  MariaDB [kuliah]> describe mata_kuliah;									
Field	Туре	Null	Key	Default	Extra				
ı: — :	int(11) varchar(50) int(11)	NO NO NO	PRI	NULL NULL 0					
rows in set (0.021 sec)									