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## TUGAS PRAKTIKUM SISTEM BASIS DATA MODUL 4

### TUGAS 1

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\ASUS>cd..
C:\Users>cd..
C:\>cd C:\xampp\xampp\mysql\bin
C:\xampp\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 24
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(45) NOT NULL,
  -> alamat_dosen VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.203 sec)
```

```
Command Prompt - mysql -u root -p
  -> alamat_dosen VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.203 sec)

MariaDB [kuliah]> CREATE TABLE matkul(
  -> kode_matkul INTEGER PRIMARY KEY,
  -> nama_matkul VARCHAR(45) NOT NULL,
  -> jumlah_matkul INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.293 sec)

MariaDB [kuliah]> CREATE TABLE mahasiswa(
  -> NIM_mahasiswa VARCHAR(20) PRIMARY KEY,
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> alamat_mahasiswa VARCHAR(45) NOT NULL,
  -> kode_ruangFK INTEGER REFERENCES ruang(kode_ruang) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.444 sec)

MariaDB [kuliah]> CREATE TABLE ruang(
  -> kode_ruang INTEGER PRIMARY KEY,
  -> nama_ruang VARCHAR(45) NOT NULL,
  -> kapasitas_ruang INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.252 sec)

MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
  -> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
  -> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) 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 MariaDB server version for the right syntax to use near 'NUL ON UPDATE CASCADE)' at line 3
MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
  -> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
  -> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE);
```

Command Prompt - mysql -u root -p

```
MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(  
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,  
-> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE);  
Query OK, 0 rows affected (0.441 sec)
```

```
MariaDB [kuliah]> CREATE TABLE mahasiswa_has_matkul(  
-> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE,  
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);  
Query OK, 0 rows affected (0.400 sec)
```

```
MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(  
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) 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 MariaDB server version for the right syntax to use near '' at line 2
```

```
MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(  
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) 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 MariaDB server version for the right syntax to use near '):' at line 3
```

```
MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(  
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,  
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE);  
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 '):' at line 3
```

```
MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(  
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,  
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);  
Query OK, 0 rows affected (0.293 sec)
```

Command Prompt - mysql -u root -p

```
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);  
Query OK, 0 rows affected (0.293 sec)
```

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

```
+-----+  
| Tables_in_kuliah |  
+-----+  
| dosen             |  
| dosen_has_mahasiswa |  
| dosen_has_matkul  |  
| mahasiswa         |  
| mahasiswa_has_matkul |  
| matkul            |  
| ruang             |  
+-----+
```

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

```
MariaDB [kuliah]> describe mahasiswa;
```

```
+-----+-----+-----+-----+-----+-----+  
| Field      | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| NIM_mahasiswa | varchar(20) | NO   | PRI | NULL    |       |  
| nama_mahasiswa | varchar(45) | NO   |     | NULL    |       |  
| alamat_mahasiswa | varchar(45) | NO   |     | NULL    |       |  
| kode_ruangFK   | int(11)    | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+
```

```
4 rows in set (0.004 sec)
```

```
MariaDB [kuliah]>
```

Command Prompt - mysql -u root -p

MariaDB [kuliah]> describe mahasiswa;

Field	Type	Null	Key	Default	Extra
NIM_mahasiswa	varchar(20)	NO	PRI	NULL	
nama_mahasiswa	varchar(45)	NO		NULL	
alamat_mahasiswa	varchar(45)	NO		NULL	
kode_ruangFK	int(11)	YES		NULL	

4 rows in set (0.004 sec)

MariaDB [kuliah]> describe dosen;

Field	Type	Null	Key	Default	Extra
nip_dosen	int(11)	NO	PRI	NULL	
nama_dosen	varchar(45)	NO		NULL	
alamat_dosen	varchar(45)	NO		NULL	

3 rows in set (0.003 sec)

MariaDB [kuliah]> describe ruang;

Field	Type	Null	Key	Default	Extra
kode_ruang	int(11)	NO	PRI	NULL	
nama_ruang	varchar(45)	NO		NULL	
kapasitas_ruang	int(11)	NO		0	

3 rows in set (0.018 sec)

Command Prompt - mysql -u root -p

3 rows in set (0.003 sec)

MariaDB [kuliah]> describe ruang;

Field	Type	Null	Key	Default	Extra
kode_ruang	int(11)	NO	PRI	NULL	
nama_ruang	varchar(45)	NO		NULL	
kapasitas_ruang	int(11)	NO		0	

3 rows in set (0.018 sec)

MariaDB [kuliah]> describe matkul;

Field	Type	Null	Key	Default	Extra
kode_matkul	int(11)	NO	PRI	NULL	
nama_matkul	varchar(45)	NO		NULL	
jumlah_matkul	int(11)	NO		0	

3 rows in set (0.018 sec)

MariaDB [kuliah]>

## TUGAS 2

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\ASUS>cd..

C:\Users>cd.

C:\Users>cd C:\xampp\xampp\mysql\bin

C:\xampp\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 27
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 apotek;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use apotek;
Database changed
MariaDB [apotek]> CREATE TABLE pegawai(
  -> id_pegawai INTEGER PRIMARY KEY,
  -> nama_pegawai VARCHAR(45) NOT NULL,
  -> alamat_pegawai VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.319 sec)

MariaDB [apotek]> CREATE TABLE pelanggan(
  -> id_pelanggan INTEGER PRIMARY KEY,
  -> nama_pelanggan VARCHAR(45) NOT NULL,
  -> alamat_pelanggan VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.368 sec)

MariaDB [apotek]> CREATE TABLE obat(
  -> kode_obat INTEGER PRIMARY KEY,
  -> nama_obat VARCHAR(45) NOT NULL,
  -> harga_obat INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.407 sec)

MariaDB [apotek]> CREATE TABLE pegawai_has_pelanggan(
```

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

MariaDB [apotek]> CREATE TABLE pegawai_has_pelanggan(
  -> id_pegawaiFK INTEGER REFERENCES pegawai(id_pegawai) ON DELETE CASCADE ON UPDATE CASCADE,
  -> id_pelangganFK INTEGER REFERENCES pelanggan(id_pelanggan) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.276 sec)

MariaDB [apotek]> CREATE TABLE pelanggan_has_obat(
  -> id_pelangganFK INTEGER REFERENCES pelanggan(id_pelanggan) ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_obatFK INTEGER REFERENCES obat(kode_obat) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.307 sec)

MariaDB [apotek]> show tables;
+-----+
| Tables_in_apotek |
+-----+
| obat             |
| pegawai           |
| pegawai_has_pelanggan |
| pelanggan         |
| pelanggan_has_obat |
+-----+
5 rows in set (0.001 sec)

MariaDB [apotek]> describe pegawai;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_pegawai | int(11)   | NO   | PRI | NULL    |       |
| nama_pegawai | varchar(45) | NO   |     | NULL    |       |
| alamat_pegawai | varchar(45) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.004 sec)

MariaDB [apotek]> describe pelanggan;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_pelanggan | int(11)   | NO   | PRI | NULL    |       |
| nama_pelanggan | varchar(45) | NO   |     | NULL    |       |
| alamat_pelanggan | varchar(45) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.004 sec)
```

Command Prompt - mysql -u root -p

```
| pelanggan_has_obat |
+-----+
5 rows in set (0.001 sec)
```

MariaDB [apotek]> describe pegawai;

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_pegawai | int(11)   | NO   | PRI | NULL    |       |
| nama_pegawai | varchar(45) | NO   |     | NULL    |       |
| alamat_pegawai | varchar(45) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.004 sec)

MariaDB [apotek]> describe pelanggan;

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_pelanggan | int(11)   | NO   | PRI | NULL    |       |
| nama_pelanggan | varchar(45) | NO   |     | NULL    |       |
| alamat_pelanggan | varchar(45) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.004 sec)

MariaDB [apotek]> describe obat;

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_obat | int(11)   | NO   | PRI | NULL    |       |
| nama_obat | varchar(45) | NO   |     | NULL    |       |
| harga_obat | int(11)   | NO   |     | 0       |       |
+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.004 sec)

MariaDB [apotek]>