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Latihan :

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.16299.1087]
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C:\Users\acer>cd\

C:\>cd C:\XAMPP-2\mysql\bin

C:\XAMPP-2\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 36
Server version: 10.3.15-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 perbankan;
ERROR 1007 (HY000): Can't create database 'perbankan'; database exists
MariaDB [(none)]> drop database perbankan;
Query OK, 0 rows affected (0.083 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> CREATE TABLE nasabah (
  -> id_nasabah INTEGER PRIMARY KEY,
  -> nama_nasabah VARCHAR(45) NOT NULL,
  -> alamat_nasabah VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.002 sec)
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
kode_cabangFK VARCHAR(20) REFERENCES (
MariaDB [perbankan]> CREATE TABLE rekening (
  -> no_rekening INTEGER PRIMARY KEY,
  -> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> pin VARCHAR(20) DEFAULT '1234' NOT NULL,
  -> saldo INTEGER DEFAULT 0 NOT NULL
  -> );
Query OK, 0 rows affected (0.162 sec)

MariaDB [perbankan]> CREATE TABLE transaksi (
  -> no_transaksi SERIAL PRIMARY KEY,
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)
  -> ON DELETE SET NULL ON UPDATE CASCADE,
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)
  -> ON DELETE SET NULL ON UPDATE CASCADE,
  -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
  -> tanggal_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
  -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
  -> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)
  -> );
Query OK, 0 rows affected (0.190 sec)

MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening (
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(id_nasabahFK, no_rekeningFK)
  -> );
Query OK, 0 rows affected (0.178 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank |
| nasabah |
| nasabah_has_rekening |
| rekening |
| transaksi |
+-----+
5 rows in set (0.001 sec)
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
5 rows in set (0.001 sec)

MariaDB [perbankan]> describe nasabah;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_nasabah | int(11) | NO | PRI | NULL | |
| nama_nasabah | varchar(45) | NO | | NULL | |
| alamat_nasabah | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.043 sec)

MariaDB [perbankan]> describe transaksi
-> );
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 [perbankan]> describe transaksi;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_transaksi | bigint(20) unsigned | NO | PRI | NULL | auto_increment |
| id_nasabahFK | int(11) | YES | | NULL | |
| no_rekeningFK | int(11) | YES | | NULL | |
| jenis_transaksi | varchar(20) | NO | | debit | |
| tanggal_transaksi | varchar(20) | NO | | debit | |
| tanggal | datetime | NO | | current_timestamp() | |
| jumlah | int(11) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.005 sec)

MariaDB [perbankan]>
```

Tugas :

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> create database data_kuliah;
Query OK, 1 row affected (0.384 sec)

MariaDB [perbankan]> show database
-> );
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 'database ')' at line 1
MariaDB [perbankan]> show databases;
+-----+
| Database |
+-----+
| data_kuliah |
| information_schema |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.400 sec)

MariaDB [perbankan]> use kuliah;
ERROR 1049 (42000): Unknown database 'kuliah'
MariaDB [perbankan]> use data_kuliah;
Database changed
MariaDB [data_kuliah]> CREATE TABLE mahasiswa (
-> nim VARCHAR(20) PRIMARY KEY,
-> nama_mahasiswa VARCHAR(45) NOT NULL,
-> alamat_mahasiswa VARCHAR(255) NOT NULL
-> );
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 'VARCHAR(255) NOT NULL)' at line 4
MariaDB [data_kuliah]> CREATE TABLE mahasiswa (
-> nim VARCHAR(20) PRIMARY KEY,
-> nama_mahasiswa VARCHAR(45) NOT NULL,
-> alamat_mahasiswa VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.496 sec)

MariaDB [data_kuliah]> CREATE TABLE dosen (
-> id_dosen VARCHAR(20) PRIMARY KEY
-> nama_dosen VARCHAR(45) NOT NULL,
-> alamat_dosen VARCHAR(255) NOT NULL
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
mysql> use data_kuliah;
MariaDB [data_kuliah]> CREATE TABLE dosen (
  -> id_dosen VARCHAR(20) PRIMARY KEY,
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> alamat_dosen VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.132 sec)

MariaDB [data_kuliah]> CREATE TABLE mata_kuliah (
  -> id_makul VARCHAR(20) PRIMARY KEY,
  -> nama_makul VARCHAR(20) NOT NULL,
  -> jadwal_makul VARCHAR(20) NOT NULL
  -> );
Query OK, 0 rows affected (0.123 sec)

MariaDB [data_kuliah]> CREATE TABLE ruang_kuliah (
  -> kode_ruang VARCHAR(20) PRIMARY KEY,
  -> lokasi_ruang VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.094 sec)

MariaDB [data_kuliah]> CREATE TABLE mahasiswa_has_dosen (
  -> nimFK VARCHAR(20) REFERENCES mahasiswa(nim)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> id_dosenFK VARCHAR(20) REFERENCES dosen(id_dosen)
  -> ON DELETE CASCADE ON UPDATE CASCADE
  -> );
Query OK, 0 rows affected (0.193 sec)

MariaDB [data_kuliah]> CREATE TABLE dosen_has_makul (
  -> id_dosenFK VARCHAR(20) REFERENCES dosen(id_dosen)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> id_makulFK VARCHAR(20) REFERENCES mata_kuliah(id_makul)
  -> ON DELETE CASCADE ON UPDATE CASCADE
  -> );
Query OK, 0 rows affected (0.148 sec)

MariaDB [data_kuliah]> CREATE TABLE mata_kuliah_has_ruang_kuliah (
  -> id_makulFK VARCHAR(20) REFERENCES mata_kuliah(id_makul)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> kode_ruangFK VARCHAR(20) REFERENCES ruang_kuliah(kode_ruang)
  -> ON DELETE CASCADE ON UPDATE CASCADE
  -> );
Query OK, 0 rows affected (0.136 sec)
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [data_kuliah]> show tables;
+-----+
| Tables_in_data_kuliah |
+-----+
| dosen                  |
| dosen_has_makul        |
| mahasiswa              |
| mahasiswa_has_dosen    |
| mata_kuliah            |
| mata_kuliah_has_ruang_kuliah |
| ruang_kuliah           |
+-----+
7 rows in set (0.020 sec)

MariaDB [data_kuliah]> describe ruang_kuliah;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| kode_ruang | varchar(20) | NO   | PRI | NULL    |       |
| lokasi_ruang | varchar(255) | NO   |     | NULL    |       |
+-----+
2 rows in set (0.128 sec)

MariaDB [data_kuliah]> describe mahasiswa_has_dosen;
- - - - -
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 [data_kuliah]> describe mahasiswa_has_dosen;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| nimFK      | varchar(20) | YES  |     | NULL    |       |
| id_dosenFK | varchar(20) | YES  |     | NULL    |       |
+-----+
2 rows in set (0.005 sec)

MariaDB [data_kuliah]> describe dosen;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| id_dosen   | varchar(20) | NO   | PRI | NULL    |       |
| nama_dosen | varchar(45) | NO   |     | NULL    |       |
| alamat_dosen | varchar(255) | NO   |     | NULL    |       |
+-----+
```