

NAMA : DHIYA ULHAQ A

NIM : L200180009

BASIS DATA MODUL 4

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

C:\Users>cd..

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

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 16
Server version: 10.1.36-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)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mahasiswa |
| mahasiswa2 |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
8 rows in set (0.28 sec)

MariaDB [(none)]> drop database perbankan;
Query OK, 0 rows affected (0.59 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mahasiswa |
| mahasiswa2 |
| mysql |
| performance_schema |
+-----+
7 rows in set (0.00 sec)
```

```
Command Prompt - mysql -u root -p
8 rows in set (0.28 sec)

MariaDB [(none)]> drop database perbankan;
Query OK, 0 rows affected (0.59 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mahasiswa |
| mahasiswa2 |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.00 sec)

MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.14 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(225) NOT NULL);
Query OK, 0 rows affected (0.29 sec)

MariaDB [perbankan]> CREATE TABLE cabang_bank (kode_cabang VARCHAR(20) PRIMARY KEY, nama_cabang VARCHAR(45) UNIQUE NOT NULL, alamat_cabang VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.29 sec)

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 (0.05 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 DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP, jumlah INTEGER NOT NULL CHECK(jumlah>=20000));
Query OK, 0 rows affected (0.19 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 (0.29 sec)

MariaDB [perbankan]>
```

Command Prompt - mysql -u root -p

MariaDB [perbankan]> show tables;

```
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
```

5 rows in set (0.13 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(225)	NO		NULL	

3 rows in set (0.33 sec)

MariaDB [perbankan]> describe cabang_bank;

Field	Type	Null	Key	Default	Extra
kode_cabang	varchar(20)	NO	PRI	NULL	
nama_cabang	varchar(45)	NO	UNI	NULL	
alamat_cabang	varchar(255)	NO		NULL	

3 rows in set (0.07 sec)

MariaDB [perbankan]> describe rekening;

Field	Type	Null	Key	Default	Extra
no_rekening	int(11)	NO	PRI	NULL	
kode_cabangFK	varchar(20)	YES		NULL	
pin	varchar(20)	NO		1234	
saldo	int(11)	NO		0	

4 rows in set (0.15 sec)

MariaDB [perbankan]> _

TUGAS

Command Prompt - mysql -u root -p

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Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 47

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;

```
+-----+
| Database |
+-----+
| information_schema |
| mahasiswa         |
| mahasiswa2        |
| mysql             |
| perbankan         |
| performance_schema |
| phpmyadmin        |
| test              |
+-----+
```

8 rows in set (0.00 sec)

MariaDB [(none)]> create database perkuliahan;

Query OK, 1 row affected (0.10 sec)

```

MariaDB [perkuliahan]> create table dosen(
  -> nip INTEGER PRIMARY KEY,
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> alamat_dosen VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.27 sec)

MariaDB [perkuliahan]> create table mahasiswa(
  -> nim INTEGER PRIMARY KEY,
  -> nipFK INTEGER REFERENCES dosen(nip)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> alamat_mahasiswa VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.35 sec)

MariaDB [perkuliahan]> create table matkul(
  -> nama_matkul VARCHAR(45) NOT NULL,
  -> nipFK INTEGER REFERENCES dosen(nip)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> id_matkul INTEGER PRIMARY KEY,
  -> dosen_pengampu VARCHAR(45) NOT NULL
  -> );
Query OK, 0 rows affected (0.65 sec)

MariaDB [perkuliahan]> create table runang_kelas(
  -> kode_kelas INTEGER PRIMARY KEY,
  -> kapasitas INTEGER(20)
  -> );
Query OK, 0 rows affected (0.45 sec)

MariaDB [perkuliahan]> create table mahasiswa_has_matkul(
  -> nimFK INTEGER REFERENCES mahasiswa(nim)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> id_matkulFK INTEGER REFERENCES matkul(id_matkul)
  -> ON DELETE CASCADE ON UPDATE CASCADE,
  -> PRIMARY KEY(nimFK, id_matkulFK)
  -> );
Query OK, 0 rows affected (0.28 sec)

```

```

MariaDB [perkuliahan]> show tables;
+-----+
| Tables_in_perkuliahan |
+-----+
| dosen                  |
| mahasiswa              |
| mahasiswa_has_matkul   |
| matkul                 |
| runang_kelas           |
+-----+
5 rows in set (0.00 sec)

MariaDB [perkuliahan]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim        | int(11)   | NO   | PRI | NULL    |       |
| nipFK      | int(11)   | YES  |     | NULL    |       |
| nama_mahasiswa | varchar(45) | NO   |     | NULL    |       |
| alamat_mahasiswa | varchar(255) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

MariaDB [perkuliahan]>

```