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LAPORAN KEGIATAN PRAKTIKUM MODUL 4

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18363.720]
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C:\Users\Win 10>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 32
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)]> creta database perbankan;
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 'creta database perbankan' at line 1
MariaDB [(none)]> use perbankan;
ERROR 1049 (42000): Unknown database 'perbankan'
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.003 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 (0.442 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 (0.446 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 (0.242 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 (0.290 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 (0.320 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
+-----+
```

```
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Query OK, 0 rows affected (0.320 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening              |
| transaksi             |
+-----+
5 rows in set (0.002 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 (0.025 sec)

MariaDB [perbankan]>

Command Prompt - mysql -u root -p
+-----+
| 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 (0.025 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 (0.012 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 (0.054 sec)

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      | datetime  | NO   |     | current_timestamp() |       |
| jumlah        | int(11)   | NO   |     | NULL    |       |
+-----+
6 rows in set (0.055 sec)

MariaDB [perbankan]> describe nasabah_has_rekening;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| id_nasabahFK | int(11)   | NO   | PRI | NULL    |       |
| no_rekeningFK | int(11)   | NO   | PRI | NULL    |       |
+-----+
2 rows in set (0.015 sec)

MariaDB [perbankan]>
```

Tugas

Implementasikan hasil rancangan database yang menangani data kuliah pada tugas modul 2 ke dalam program mysql.

```
MariaDB [(none)]> create database mahasiswa;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use mahasiswa
Database changed
MariaDB [mahasiswa]> create table mahasiswa;
ERROR 1113 (42000): A table must have at least 1 column
MariaDB [mahasiswa]> create table mahasiswa(
-> nim varchar(15) primary key,
-> nama_mhs varchar(75) not null,
-> alamat_mhs varchar(200) not null,
-> tgllahir_mhs varchar(30) not null
-> );
Query OK, 0 rows affected (0.11 sec)

MariaDB [mahasiswa]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | varchar(15) | NO | PRI | NULL | |
| nama_mhs | varchar(75) | NO | | NULL | |
| alamat_mhs | varchar(200) | NO | | NULL | |
| tgllahir_mhs | varchar(30) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

MariaDB [mahasiswa]> create table dosen(
-> nip_dosen varchar(15) primary key,
-> nama_dosen varchar(75) not null,
-> alamat_dosen varchar(200) not null,
-> kontak_dosen varchar(12) not null
-> );
Query OK, 0 rows affected (0.12 sec)

MariaDB [mahasiswa]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nip_dosen | varchar(15) | NO | PRI | NULL | |
| nama_dosen | varchar(75) | NO | | NULL | |
| alamat_dosen | varchar(200) | NO | | NULL | |
| kontak_dosen | varchar(12) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
```