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Modul 4

- 1. Langkah Langkah Kegiatan Praktikum
 - a) Membuat database perbankan

```
Command Prompt - mysgl -u root -p
                                                                                      X
Microsoft Windows [Version 10.0.17763.1098]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\hp>cd ..
C:\Users>cd ..
C:\>cd xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \gamma_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 perbankan;
Query OK, 1 row affected (0.007 sec)
```

b) Membuat tabel nasabah dan tabel cabank_bank

```
Command Prompt - mysql -u root -p
                                                                                            П
                                                                                                   X
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.007 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 (0.037 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 (0.031 sec)
```

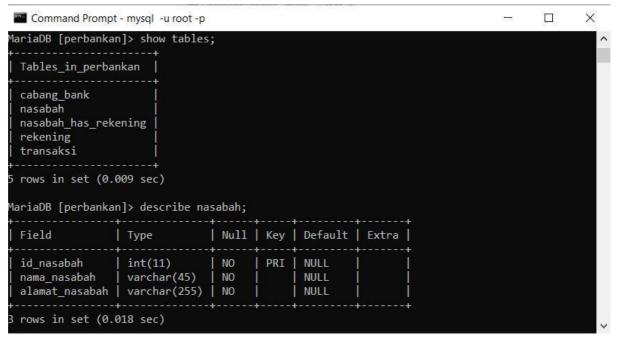
c) Membuat tabel rekening dan tabel transaksi

```
X
 Command Prompt - mysql -u root -p
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 (0.031 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 (0.035 sec)
```

d) Membuat tabel nasabah_has_rekening

```
X
 Command Prompt - mysql -u root -p
    -> 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 (0.035 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 (0.031 sec)
MariaDB [perbankan]> show tables;
 Tables_in_perbankan
  cabang_bank
```

e) Show tables dan describe nasabah



2. Tugas Praktikum

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

a) Membuat database kuliah

```
X
 Command Prompt - mysql -u root -p
MariaDB [(none)]> create database kuliah;
ERROR 1007 (HY000): Can't create database 'kuliah'; database exists
MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> create table mahasiswa (
    -> nim INTEGER PRIMARY KEY,
    -> nama VARCHAR(45) NOT NULL,
    -> alamat VARCHAR(255) NOT NULL
Query OK, 0 rows affected (0.029 sec)
MariaDB [kuliah]> drop database kuliah
Query OK, 1 row affected (0.074 sec)
MariaDB [(none)]> create database kuliah;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> use kuliah;
Database changed
```

b) Membuat table mahasiswa,dosen,mata_kuliah,ruang_kelas

```
Command Prompt - mysql -u root -p
                                                                                      X
Database changed
MariaDB [kuliah]> create table mahasiswa (
    -> nim_mhs INTEGER PRIMARY KEY,
   -> nama_mhs VARCHAR(45) NOT NULL,
   -> alamat_mhs VARCHAR(255) NOT NULL
   -> );
Query OK, 0 rows affected (0.033 sec)
MariaDB [kuliah]> create table dosen (
   -> nip_dosen INTEGER PRIMARY KEY,
   -> nama_dosen VARCHAR(45) NOT NULL,
   -> alamat_dosen VARCHAR(255) NOT NULL
Query OK, 0 rows affected (0.028 sec)
MariaDB [kuliah]> create table mata_kuliah (
   -> id_mk INTEGER PRIMARY KEY,
   -> nama_mk varchar(25) NOT NULL
Query OK, 0 rows affected (0.027 sec)
```

```
X
Command Prompt - mysql -u root -p
MariaDB [kuliah]> drop table mahasiswa_has_dosen;
Query OK, 0 rows affected (0.020 sec)
MariaDB [kuliah]> create table mahasiswa_has_dosen (
    -> nim mhsFK INTEGER REFERENCES mahasiswa(nim mhs)
   -> ON DELETE CASCADE ON UPDATE CASCADE,
   -> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen)
   -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(nim_mhsFK,nip_dosenFK)
    -> );
Query OK, 0 rows affected (0.028 sec)
MariaDB [kuliah]> create table dosen_has_mata_kuliah (
   -> nip dosenFK INTEGER REFERENCES dosen(nip dosen)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
   -> id_mkFK INTEGER REFERENCES mata_kuliah(id_mk)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(nip dosenFK,id mkFK)
Query OK, 0 rows affected (0.028 sec)
```

