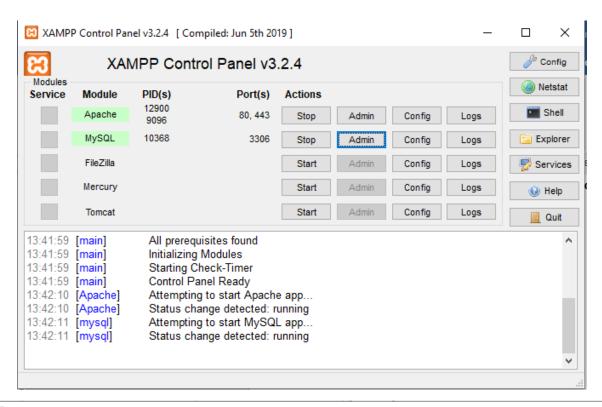
Nama: Kurniawan Andika W.

NIM: L200180115

Kelas: E

### Praktikum Basis Data Modul 4



```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                                                                 \times
 ::\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 perbankan;
Query OK, 1 row affected (0.003 sec)
MariaDB [(none)]> use perbankan;
Database changed
 Jariadas Cinigeu
HariaDB [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 (0.479 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 (0.429 sec)
```

```
■ CAWINDOWS\system32\cmd.exe - 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
-> );

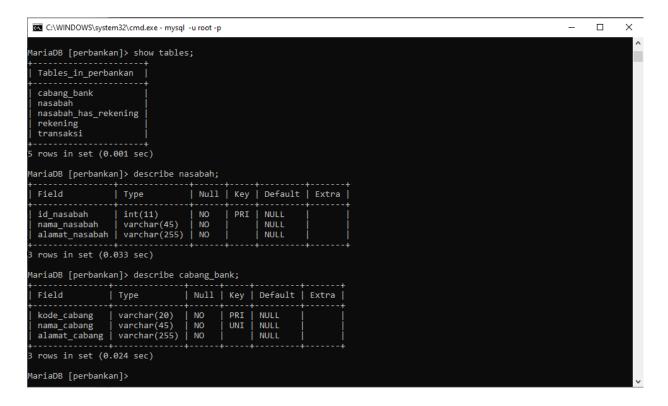
Query OK, 0 rows affected (0.252 sec)

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 'debit'. NOT NULL,
-> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)
-> );

Query OK, 0 rows affected (0.289 sec)

MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(
-> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> perkeningFK INTEGER REFERENCES rekening(no_rekening)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> perkangFK INTEGER REFERENCES rekening(no_rekening)
-> PRIMARY KEY(id_nasabahFK, no_rekeningFK)
-> );

Query OK, 0 rows affected (0.259 sec)
```



### **TUGAS**

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\pasha>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 22
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 dbkuliah;
Query OK, 1 row affected (0.004 sec)
MariaDB [(none)]> use dbkuliah;
Database changed
MariaDB [dbkuliah]> CREATE TABLE mahasiswa(
    -> nim mhs INTEGER PRIMARY KEY,
    -> nama mhs VARCHAR(255) NOT NULL,
    -> alamat mhs VARCHAR(255) NOT NULL,
    -> gender_mhs VARCHAR(25) NOT NULL
    -> );
Query OK, 0 rows affected (0.335 sec)
MariaDB [dbkuliah]> CREATE TABLE dosen(
    -> nip dosen INTEGER PRIMARY KEY,
    -> nama_dosen VARCHAR(255) NOT NULL,
    -> alamat_dosen VARCHAR(255) NOT NULL
    -> );
Query OK, 0 rows affected (0.389 sec)
MariaDB [dbkuliah]> ALTER TABLE mahasiswa ADD nip dosen INTEGER REFERENCES dosen(nip dosen)
   -> ON DELETE SET NULL ON UPDATE CASCADE;
Query OK, 0 rows affected (0.179 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [dbkuliah]> CREATE TABLE ruang_kelas(
   -> kode rk INTEGER PRIMARY KEY,
   -> kapasitas INTEGER NOT NULL
   -> );
Query OK, 0 rows affected (0.334 sec)
MariaDB [dbkuliah]> describe ruang_kelas;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----
| kapasitas | int(11) | NO | | NULL |
+----+
2 rows in set (0.100 sec)
MariaDB [dbkuliah]> CREATE TABLE mata_kuliah(
   -> kode_mk INTEGER PRIMARY KEY,
   -> kode_rk INTEGER REFERENCES ruang_kelas(kode_rk)
   -> ON DELETE SET NULL ON UPDATE CASCADE,
   -> nama mk VARCHAR(25) NOT NULL,
   -> jumlah_sks INTEGER NOT NULL
   -> );
Query OK, 0 rows affected (0.271 sec)
MariaDB [dbkuliah]> CREATE TABLE mahasiswa has mata kuliah(
   -> nim mhs INTEGER REFERENCES mahasiswa(nim mhs)
   -> ON DELETE CASCADE ON UPDATE CASCADE,
   -> kode_mk INTEGER REFERENCES mata_kuliah(kode_mk)
   -> ON DELETE CASCADE ON UPDATE CASCADE,
   -> PRIMARY KEY(nim_mhs,kode_mk)
   -> );
Query OK, 0 rows affected (0.288 sec)
```

### MariaDB [dbkuliah]> show tables;

```
Tables_in_dbkuliah |

tosen |
mahasiswa |
mahasiswa_has_mata_kuliah |
mata_kuliah |
ruang_kelas |
```

5 rows in set (0.001 sec)

# MariaDB [dbkuliah]> describe dosen;

Field	Type	Null	Key	Default	Extra
nip_dosen   nama_dosen   alamat_dosen	int(11)   varchar(255)   varchar(255)		PRI	NULL NULL NULL	

3 rows in set (0.026 sec)

# MariaDB [dbkuliah]> describe mahasiswa;

Field	Туре	Null	Key	Default	Extra
nim_mhs   nama_mhs   alamat_mhs   gender_mhs   nip_dosen	int(11) varchar(255) varchar(255) varchar(25) int(11)	NO NO NO NO YES	PRI   	NULL NULL NULL NULL NULL	

5 rows in set (0.024 sec)

MariaDB [dbkuliah]> describe mata\_kuliah;

<b>_</b>						_
Field	Туре	Null	Key	Default	Extra	
kode_mk kode_rk nama_mk jumlah_sks	int(11)   int(11)   varchar(25)   int(11)	NO YES NO NO	PRI	NULL NULL NULL NULL		

4 rows in set (0.094 sec)

MariaDB [dbkuliah]> describe ruang\_kelas;

-	Type	Null	Key	Extra	ĺ
kode_rk   kapasitas	int(11)	NO	PRI	   	

2 rows in set (0.024 sec)

MariaDB [dbkuliah]> describe mahasiswa\_has\_mata\_kuliah;

Field		Null	Key	Default	Extra
nim_mhs	int(11)     int(11)	NO		NULL	

2 rows in set (0.026 sec)

MariaDB [dbkuliah]>