Nama: Sindhiana Aulia F

NIM : L200180084

MODUL 4

Data Definition Language (DDL)

Latihan

1. Login sebagai root ke MySq

```
C:\Windows\System32\cmd.exe - mysql -u root -p

Microsoft Windows [Version 6.3.9600]
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C:\Windows\System32\cd c:\xampp\mysql\bin

c:\xampp\mysql\bin\mysql -u root -p

Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 1
Server version: 5.5.16 MySQL Community Server (GPL)

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

mysql>
```

2. Membuat table nasabah, cabang bank, rekening, transaksi dan nasabah has rekening

```
mysq1> create table nasabah(
-> id_nasabah INTEGER PRIMARY KEY,
-> nama_nasabah UARCHAR(100) NOT NULL,
-> alamat_nasabah UARCHAR(100) NOT NULL);

Query OK, Ø rows affected (Ø.22 sec)

mysq1> create table cabang_bank(
-> kode_cabang_UARCHAR(10) PRIMARY KEY,
-> nama_cabang_UARCHAR(40) UNIQUE_NOT_NULL,
-> alamat_cabang_UARCHAR(40) UNIQUE_NOT_NULL,
-> alamat_cabang_UARCHAR(40) UNIQUE_NOT_NULL,
-> alamat_cabang_UARCHAR(40) UNIQUE_NOT_NULL);

Query OK, Ø rows affected (Ø.16 sec)

mysq1> create table rekening(
-> no_rekening_INTEGER_PRIMARY_KEY,
-> kode_cabangFK_UARCHAR(20) REFERENCES cabang_bank(kode_cabang)
-> ON_DELETE_CASCADE_ON_UPDATE_CASCADE,
-> pin_UARCHAR(20) DEFAULT_1234' NOT_NULL,
-> saldo_INTEGER_DEFAULT_0 NOT_NULL);

Query OK, Ø rows affected (Ø.16 sec)

mysq1> 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_UARCHAR(20)_DEFAULT_1'debit_NOT_NULL,
-> tanggal_DATETIME_NOT_NULL_CHECK(jumlah)=200000)
-> >;

Query OK, Ø rows_affected (Ø.19 sec)

mysq1> create_table_nasabah_has_rekening(
-> id_nasabahFK_INTEGER_REFERENCES_nasabah(id_nasabah)
-> ON_DELETE_CASCADE_ON_UPDATE_CASCADE,
-> no_rekeningFK_INTEGER_REFERENCES_nasabah(id_nasabah)
-> ON_DELETE_CASCADE_ON_UPDATE_CASCADE,
-> no_rekeningFK_INTEGER_REFERENCES_rekening(no_rekening)
-> ON_DELETE_CASCADE_ON_UPDATE_CASCADE,
-> no_rekeningFK_NTEGER_REFERENCES_rekening(no_rekening)
-> ON_DELETE_CASCADE_ON_UPDATE_CASCADE,
-> PRIMARY_KEY(id_nasabahFK,no_rekeningFK)
-> >;
Query OK, Ø rows_affected (Ø.19 sec)
```

3. Melihat table yang selesai dibuat

4. Melihat struktur tiap table dengan perintah describe

```
nysql> describe nasabah;
 Field
                                  ! Null
                                           Key | Default | Extra
                  l Type
                                           PRI
                                                  NULL
 id_nasabah
                   int(11)
                   varchar(30)
 nama_nasabah
                                   N0
N0
                                                  NULL
                                                  NULL
 alamat_nasabah
                   varchar(100)
 rows in set (0.08 sec)
```

Tugas

1. Login sebagai root ke MySql, lalu membuat database data_kuliah dan menghubungkan database dengan perintah 'use nama_database'

```
Icrosoft Windows [Version 6.3.7600]

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::\Windows\System32\cd c:\xampp\mysql\bin
::\xampp\mysql\bin\mysql -u root -p
Inter password:
lelcome to the MySQL monitor. Commands end with; or \g.
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!erver version: 5.5.16 MySQL Community Server (GPL)

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iffiliates. Other names may be trademarks of their respective
whers.

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

Tysql\ create database data_kuliah;
Wery OK, 1 row affected (0.00 sec)
```

2. Membuat table mahasiswa, dosen, mata_kuliah dan ruang_kelas

3. Melihat table yang selesai dibuat dan melihat struktur tiap tabel

