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MODUL 4 Data Definition Language (DDL)

Latihan

1. Login sebagai root ke MySql

```
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(30) 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);

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,
-> jenis_transaksi UARCHAR(20) DEFAULT 'debit' NOT NULL,
-> tanggal_DATETIME NOT NULL,
-> tanggal_DATETIME NOT NULL,
-> jumlah INTEGER NOT NULL CHECK(jumlah)=20000)
-> ;

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,
-> jenis_transaksi UARCHAR(20) DEFAULT 'debit' NOT NULL,
-> tanggal_DATETIME NOT NULL,
-> tanggal_DATETIME NOT NULL CHECK(jumlah)=20000)
-> ;

Query OK, Ø rows affected (Ø.19 sec)

mysq1> create table nasabah_has_rekening(
-> on_rekeningFK INTEGER REFERENCES nasabah(id_nasabah)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> perkeningFK INTEGER REFERENCES pekening(no_rekening)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMBRY KEY(id_nasabahFK, no_rekeningFK)
-> ;

Query OK, Ø rows affected (Ø.19 sec)
```

Melihat table yang selesai dibuat

```
mysql> show tables;

| Tables_in_perbankan |
| cabang_bank |
| nasabah |
| nasabah_has_rekening |
| rekening |
| transaksi |
| tows in set (0.00 sec)
```

4. Melihat struktur tiap table dengan perintah describe

```
nysql> describe nasabah;
 Field
                                              Key
                   ! Type
                                      Nu11 |
                                                     Default
                                                                 Extra
                                              PRI
                                                     NULL
 id_nasabah
                     int(11)
                    varchar(30)
varchar(100)
                                      NO
NO
                                                     NULL
 nama_nasabah
                                                     NULL
 alamat_nasabah
 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 IVersion b.3.7600]

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C:\Windows\System32\cd c:\xampp\mysql\bin

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

Inter password:

Ielcome to the MySQL monitor. Commands end with; or \g.

Cour MySQL connection id is 1

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

Tysql\create database data_kuliah;

Ruery 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

