L200160067

Alfarez Syahputra Kuri

B

Modul 4

Praktikum

Membuat Database perbankan dan mengunakannya


```
mysql> create database perbankan;
Query OK, 1 row affected (0.44 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| belajar            |
| information_schema |
| mysql              |
| perbankan          |
| performance_schema |
| sakila             |
| sys                |
| world              |
+--------------------+
8 rows in set (0.01 sec)

mysql> use perbankan;
Database changed
```

Kemudian membuat table nasabah , table cabang_bank, rekening, transaksi dan nasabah_has_rekening


```
mysql> use perbankan;
Database changed
mysql> create table nasabah(id_nasabah integer(11) primary key,nama_nasabah varchar(45) not null,alamat_nasabah varchar(
255)not null);
Query OK, 0 rows affected, 1 warning (0.81 sec)

mysql> create table cabang_bank(kode_cabang varchar(20) primary key,nama_cabang varchar(45) unique not null,alamat_caban
g varchar(255)not null);
Query OK, 0 rows affected (0.78 sec)

mysql>
```



```
 for the right syntax to use near 'O NOT NULL)' at line 1
mysql> CREATE TABLE rekening (no_rekening INTEGER PRIMARY KEY, kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cab
ang) ON DELETE CASCADE ON UPDATE CASCADE, pin VARCHAR(20) DEFAULT '1234' NOT NULL, saldo INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.58 sec)

mysql>
```

```
mysql> 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 (1.05 sec)

mysql>
```

```
mysql> 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 (0.51 sec)

mysql>
```

Mengecek hasil pembuatan tabel

```
mysql> show tables;
+----------------------+
| Tables_in_perbankan  |
+----------------------+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+----------------------+
5 rows in set (0.06 sec)

mysql> desc nasabah;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| id_nasabah     | int          | NO   | PRI | NULL    |       |
| nama_nasabah   | varchar(45)  | NO   |     | NULL    |       |
| alamat_nasabah | varchar(255) | NO   |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
3 rows in set (0.01 sec)

mysql>
```

Tugas

Membuat database datakuliah

```
mysql> create database datakuliah;
Query OK, 1 row affected (0.14 sec)

mysql> usedatakuliah;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
 for the right syntax to use near 'usedatakuliah' at line 1
mysql> use datakuliah;
Database changed
mysql>
```

Kemudian membuat tabel mahasiswa,dosen,matakuliah dan kelas

```
mysql> Create table mahasiswa (
    -> nim varchar(15) Primary Key,
    -> nama_mhs varchar(75),
    -> alamat_mhs varchar(255),
    -> tgllahir_mhs date);
Query OK, 0 rows affected (0.70 sec)

mysql> Create table dosen (
    -> nip_dosen  varchar(15) Primary Key,
    -> nama_dosen varchar(75),
    -> alamat_dosen varchar(255),
    -> kontak_dosen integer(12));
Query OK, 0 rows affected, 1 warning (0.47 sec)

mysql> Create table matakuliah (
    -> kode_mk   varchar(10) Primary Key,
    -> nama_mk varchar(50),
    -> jml_sks integer,
    -> semester integer);
Query OK, 0 rows affected (0.51 sec)

mysql>
mysql> Create table kelas (
    -> kode_ruang  varchar(10) Primary Key,
    -> kapasitas integer);
Query OK, 0 rows affected (0.53 sec)
```

Menampilkan hasil pembuatan tabel

```
mysql> Show tables;
+---------------------+
| Tables_in_datakuliah |
+---------------------+
| dosen               |
| kelas               |
| mahasiswa           |
| matakuliah          |
+---------------------+
4 rows in set (0.01 sec)

mysql>
```