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Latihan

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Activities Terminal Mar 24 8:37 PM
kintosi@pop-os: /opt/lampp

kintosi@pop-os:/opt/lampp$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.19-0ubuntu0.19.10.3 (Ubuntu)

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

mysql> create database perbankan;
Query OK, 1 row affected (0.29 sec)

mysql> use perbankan
Database changed
mysql> 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 (0.95 sec)

mysql> create table cabang_bank (
  -> kode_bank VARCHAR(20) PRIMARY KEY,
  -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
  -> alamat_cabang VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (1.50 sec)
```

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Welcome to the MySQL monitor.  Commands end with ; or \g.
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create table rekening (
  -> no_rekening INTEGER PRIMARY KEY,
  -> kode_cabang FK 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
  -> );
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 'FK VARCHAR(20) REFERENCES cabang_bank(kode_cabang)
ON DELETE CASCADE ON UPDATE C' at line 3
mysql> 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 (0.57 sec)

mysql> create table transaksi (
  -> no_transaksi SERIAL PRIMARY KEY,
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)
  -> ON DELETE SET
Display all 756 possibilities? (y or n)
  -> 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 (0.93 sec)

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)
```

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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 (0.47 sec)

mysql> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank         |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.00 sec)

mysql> describe 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 (0.00 sec)

mysql>
```

Tugas

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Activities Terminal Mar 24 9:06 PM
kintosi@pop-os: /opt/lampp

kintosi@pop-os: /opt/lampp
kintosi@pop-os:/opt/lampp$ sudo mysql -u root -p
[sudo] password for kintosi:
Sorry, try again.
[sudo] password for kintosi:
Sorry, try again.
[sudo] password for kintosi:
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.19-0ubuntu0.19.10.3 (Ubuntu)

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

mysql> create database mata_kuliah;
Query OK, 1 row affected (0.70 sec)

mysql> use mata_kuliah;
Database changed
mysql> create table dosen (
-> no_dosen INTEGER PRIMARY KEY,
-> nama_dosen VARCHAR(255) NOT NULL,
-> alamat_dosen VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.73 sec)

mysql> create table ruang_kelas (
-> kode_rk INTEGER PRIMARY KEY
```

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mysql> create table ruang_kelas (
-> kode_rk INTEGER PRIMARY KEY,
-> kapasitas INTEGER NOT NULL
-> );
Query OK, 0 rows affected (0.58 sec)

mysql> create table mahasiswa (
-> nim_mhs INTEGER PRIMARY KEY,
-> dosen_nip dosenFK INTEGER REFERENCES dosen(nip_dosen)
-> ON DELETE SET NULL ON UPDATE CASCADE,
-> nama_mhs VARCHAR(255) NOT NULL,
-> alamat_mhs VARCHAR(255) NOT NULL,
-> gender_mhs VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.59 sec)

mysql> create table mata_kuliah (
-> kode_mk INTEGER PRIMARY KEY,
-> ruang_kelas kode_rkFK INTEGER REFERENCES ruang_kelas(kode_rk)
-> ON DELETE SET NULL ON UPDATE CASCADE,
-> nama_mk VARCHAR(25) NOT NULL,
-> jmlh_sks INTEGER
-> );
Query OK, 0 rows affected (0.61 sec)

mysql> create table mahasiswa_has_mata_kuliah (
-> mahasiswa_nim_mhsFK INTEGER REFERENCES mahasiswa(nim_mhs)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> mata_kuliah_kode_mkFK INTEGER REFERENCES mata_kuliah(kode_mk)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(nim_mhsFK, kode_mkFK)
-> );
```

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-> );
ERROR 1072 (42000): Key column 'nim_mhsFK' doesn't exist in table
mysql> create table mahasiswa_has_mata_kuliah ( mahasiswa_nim_mhsFK INTEGER REFERENCES mahasiswa(nim_mhs) ON DELETE CASCADE ON UPDATE CA
SCADE, mata_kuliah_kode_mkFK INTEGER REFERENCES mata_kuliah(kode_mk) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(nim_mhs, kode_mkF
K) );
ERROR 1072 (42000): Key column 'nim_mhs' doesn't exist in table
mysql> create table mahasiswa_has_mata_kuliah ( mahasiswa_nim_mhsFK INTEGER REFERENCES mahasiswa(nim_mhs) ON DELETE CASCADE ON UPDATE CA
SCADE, mata_kuliah_kode_mkFK INTEGER REFERENCES mata_kuliah(kode_mk) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(mahasiswa_nim_mhsF
K, mata_kuliah_kode_mkFK) );
Query OK, 0 rows affected (0.58 sec)

mysql> show tables;
+-----+
| Tables_in_mata_kuliah |
+-----+
| dosen                  |
| mahasiswa              |
| mahasiswa_has_mata_kuliah |
| mata_kuliah            |
| ruang_kelas            |
+-----+
5 rows in set (0.00 sec)

mysql> describe dosen;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| no_dosen   | int       | NO   | PRI | NULL    |       |
| nama_dosen | varchar(255) | NO   |     | NULL    |       |
| alamat_dosen | varchar(255) | NO   |     | NULL    |       |
+-----+
3 rows in set (0.12 sec)
```

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+-----+
| dosen |
| mahasiswa |
| mahasiswa_has_mata_kuliah |
| mata_kuliah |
| ruang_kelas |
+-----+
5 rows in set (0.00 sec)

mysql> describe dosen;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| no_dosen | int | NO | PRI | NULL | |
| nama_dosen | varchar(255) | NO | | NULL | |
| alamat_dosen | varchar(255) | NO | | NULL | |
+-----+
3 rows in set (0.12 sec)

mysql> describe mahasiswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nim_mhs | int | NO | PRI | NULL | |
| dosen_nip_dosenFK | int | YES | | NULL | |
| nama_mhs | varchar(255) | NO | | NULL | |
| alamat_mhs | varchar(255) | NO | | NULL | |
| gender_mhs | varchar(255) | NO | | NULL | |
+-----+
5 rows in set (0.01 sec)

mysql> 
```