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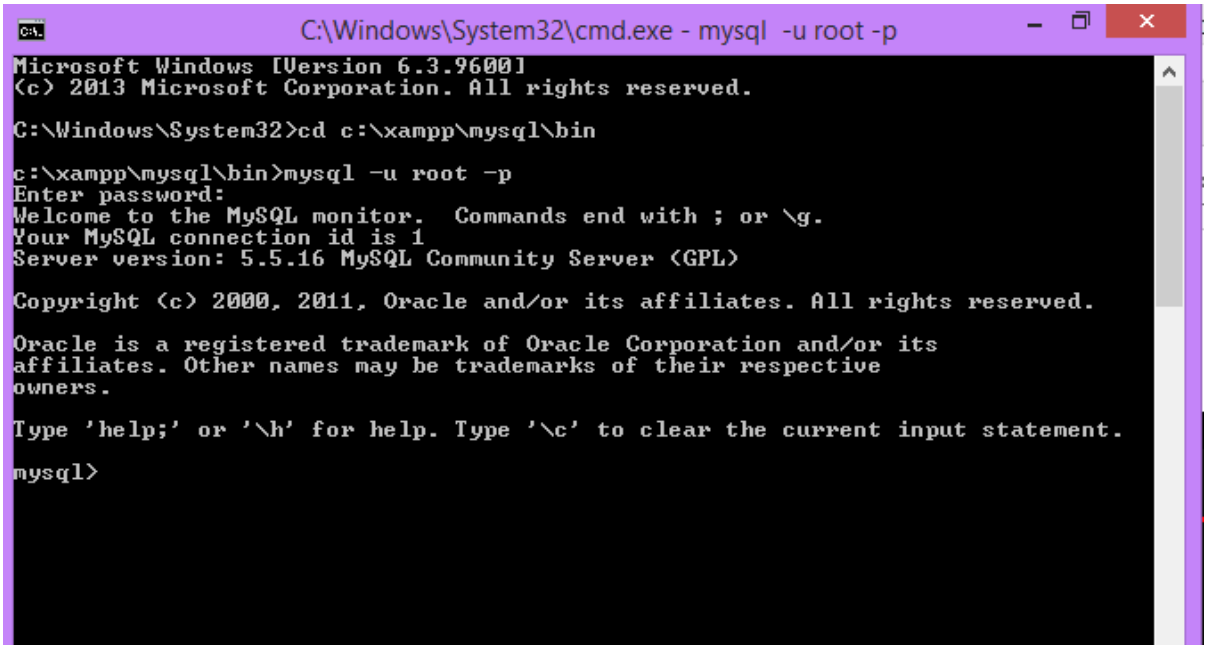
MODUL 4
Data Definition Language (DDL)

Latihan

1. Login sebagai root ke MySq



2. Membuat table nasabah, cabang_bank, rekening, transaksi dan nasabah_has_rekening

```
mysql> create table nasabah(
    -> id_nasabah INTEGER PRIMARY KEY,
    -> nama_nasabah VARCHAR(30) NOT NULL,
    -> alamat_nasabah VARCHAR(100) NOT NULL);
Query OK, 0 rows affected (0.22 sec)

mysql> create table cabang_bank(
    -> kode_cabang VARCHAR(10) PRIMARY KEY,
    -> nama_cabang VARCHAR(40) UNIQUE NOT NULL,
    -> alamat_cabang VARCHAR(225) NOT NULL);
Query OK, 0 rows affected (0.16 sec)

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 (0.16 sec)
```

```
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,
    -> jumlah INTEGER NOT NULL CHECK(jumlah>=20000)
    -> );
Query OK, 0 rows affected (0.19 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)
    -> );
Query OK, 0 rows affected (0.19 sec)
```

3. Melihat table yang selesai dibuat

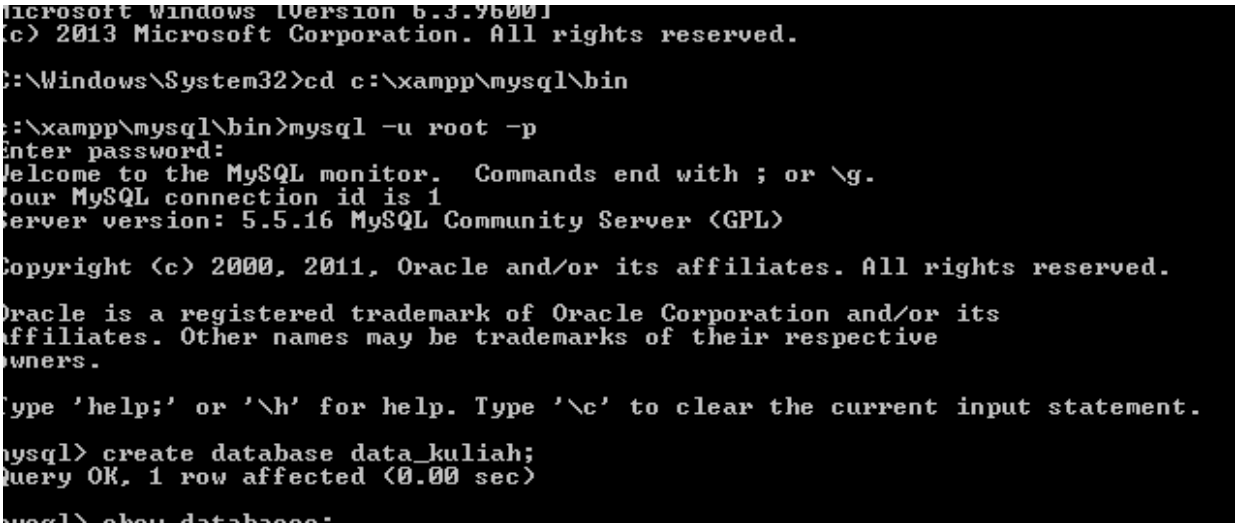
```
mysql> show tables;
+----------------------+
| Tables_in_perbankan  |
+----------------------+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+----------------------+
5 rows in set (0.00 sec)
```

4. Melihat struktur tiap table dengan perintah describe

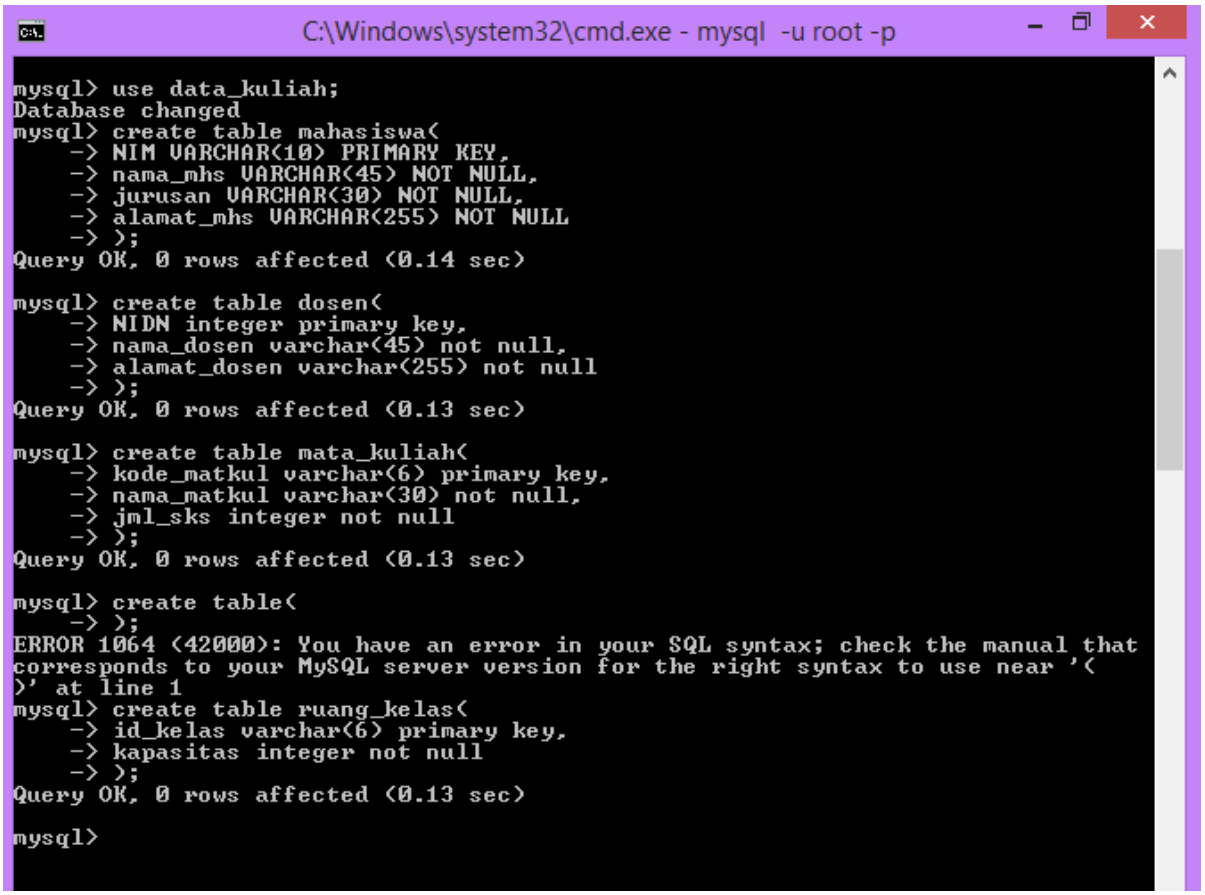
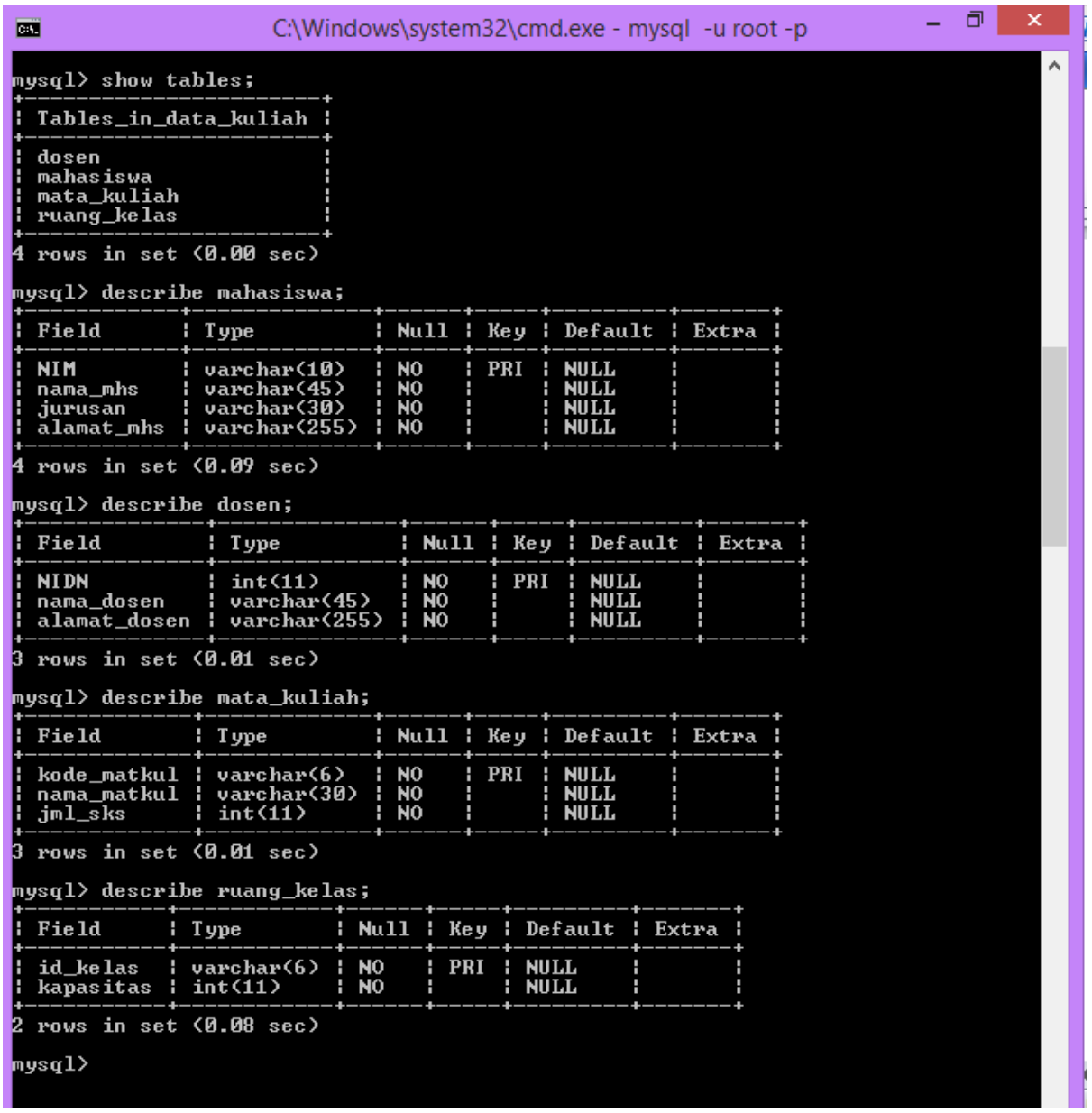
```
mysql> describe nasabah;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| id_nasabah     | int(11)      | NO   | PRI | NULL    |       |
| nama_nasabah   | varchar(30)  | NO   |     | NULL    |       |
| alamat_nasabah | varchar(100) | NO   |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
3 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’



2. Membuat table mahasiswa, dosen, mata_kuliah dan ruang_kelas



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