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NIM   : L200180005
Kelas   : A


```
Command Prompt - mysql  -u root -p                                    —    □    X

Microsoft Windows [Version 10.0.18362.778]
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C:\Users\Auzan>cd ../..

C:\>cd xampp/mysql/bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.11-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.003 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| jo                 |
| mysql              |
| perbankan          |
| performance_schema |
| perpustakaan       |
```

```
Command Prompt - mysql  -u root -p                                    —    □    >

+--------------------+
8 rows in set (0.001 sec)

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> create table nasabah(
    -> id_nasabah INTEGER PRIMARY KEY,
    -> nama_nasabah VARCHAR(45) NOT NULL, alamat_nasabah VARCHAR(225) NOT NULL);
Query OK, 0 rows affected (0.590 sec)

MariaDB [perbankan]> create table cabang_bank(
    -> kode_cabang VARCHAR(20) PRIMART KEY,
    -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
    -> alamat_cabang VARCHAR(255) NOT NULL);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server vers
on for the right syntax to use near 'KEY,
nama_cabang VARCHAR(45) UNIQUE NOT NULL,
alamat_cabang VARCHAR(255) NOT NUL' at line 2
MariaDB [perbankan]> create table cabang_bank(
    -> kode_cabang VARCHAR(20) PRIMARY KEY,
    -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
    -> alamat_cabang VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.430 sec)

MariaDB [perbankan]> 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 (0.375 sec)
```

```
Command Prompt - mysql  -u root -p                                    —    □    ✕

MariaDB [perbankan]> create table transaksi(
    -> no_transaksi SERIAL PRIMARY KEY,
    -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE SET NULL ON UPDATE CASECADE,
    -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE SET NULL ON UPDATE CASECADE,
    -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
    -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP, jumlah INTEGER NOT NULL CHECK(jumlah>=20000));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near 'CASECADE,
no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE SET N' at line 3
MariaDB [perbankan]> 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 (0.623 sec)

MariaDB [perbankan]> create table nasabah_has_rekening(
    -> id_nasabah SERIAL PRIMARY KEY,
    -> id_nasabah INTEGER REFERENCES nasabah(id_nasabah) ON DELETE SET NULL ON UPDATE CASCADE,
    -> no_re);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near ')' at line 4
MariaDB [perbankan]> create table nasabah_has_rekening(
    -> id_nasabah INTEGER REFERENCES nasabah(id_nasabah) ON DELETE SET NULL ON UPDATE CASCADE,
    -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(id_nasabahFK, no_rekeningFK));
ERROR 1072 (42000): Key column 'id_nasabahFK' doesn't exist in table
MariaDB [perbankan]> create table nasabah_has_rekening(
    -> id_nasabah INTEGER REFERENCES nasabah(id_nasabah) ON DELETE SET NULL ON UPDATE CASCADE,
```
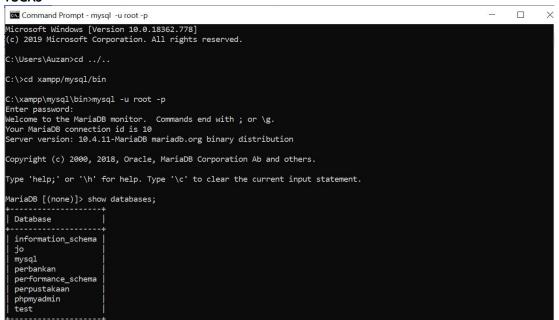
```
+---------------+-------------+------+-----+---------+-------+
3 rows in set (0.233 sec)

MariaDB [perbankan]> describe cabang_bank;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| kode_cabang   | varchar(20) | NO   | PRI | NULL    |       |
| nama_cabang   | varchar(45) | NO   | UNI | NULL    |       |
| alamat_cabang | varchar(255)| NO   |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
3 rows in set (0.040 sec)

MariaDB [perbankan]> describe rekening;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| no_rekening   | int(11)     | NO   | PRI | NULL    |       |
| kode_cabangFK | varchar(20) | YES  |     | NULL    |       |
| pin           | varchar(20) | NO   |     | 1234    |       |
| saldo         | int(11)     | NO   |     | 0       |       |
+---------------+-------------+------+-----+---------+-------+
4 rows in set (0.048 sec)

MariaDB [perbankan]>
```

TUGAS

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C:\Users\Auzan>cd ../..

C:\>cd xampp/mysql/bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 10
Server version: 10.4.11-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| jo                 |
| mysql              |
| perbankan          |
| performance_schema |
| perpustakaan       |
| phpmyadmin         |
| test               |
+--------------------+
```

```
8 rows in set (1.253 sec)

MariaDB [(none)]> create database perkuliahan;
Query OK, 1 row affected (0.388 sec)

MariaDB [(none)]> use perkuliahan;
Database changed
MariaDB [perkuliahan]> create table dosen(
    -> nip INTEGER PRIMARY KEY,
    -> nama_dosen VARCHAR (25) NOT NULL,
    -> alamat_dosen VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.779 sec)

MariaDB [perkuliahan]> create table mahasiswa(
    -> nim INTEGER PRIMARY KEY,
    -> nipFK INTEGER REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
    -> nama-mahasiswa VARCHAR(45) NOT NULL,
    -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near '-mahasiswa VARCHAR(45) NOT NULL,
)' at line 4
MariaDB [perkuliahan]> create table mahasiswa(
    -> nim INTEGER PRIMARY KEY,
    -> nipFK INTEGER REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
    -> nama_mahasiswa VARCHAR(45) NOT NULL,
    -> alamat_mahasiswa VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.502 sec)

MariaDB [perkuliahan]> create table ruang_kelas(
    -> kode_kelas INTEGER PRIMARY KEY,
    -> kapasitas INTEGER);
Query OK, 0 rows affected (0.512 sec)

MariaDB [perkuliahan]> create table matkul(
    -> nama_matkul VARCHAR(45) NOT NULL,
    -> nipFK INTEGER REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_matkul INTEGER PRIMARY KEY,
    -> dosen_pengampu VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.553 sec)

MariaDB [perkuliahan]> create table mahasiswa_has_matkul(
    -> nimFK INTEGER REFERENCES mahasiswa(nim) ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_matkulFK INTEGER REFERENCES matkul(id_matkul) ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(nimFK, id_matkulFK));
Query OK, 0 rows affected (0.511 sec)

MariaDB [perkuliahan]> show tables;
+----------------------+
| Tables_in_perkuliahan |
+----------------------+
| dosen                |
| mahasiswa            |
| mahasiswa_has_matkul |
| matkul               |
| ruang_kelas          |
+----------------------+
5 rows in set (0.057 sec)

MariaDB [perkuliahan]> describe mahasiswa;
+------------------+--------------+------+-----+---------+-------+
| Field            | Type         | Null | Key | Default | Extra |
+------------------+--------------+------+-----+---------+-------+
| nim              | int(11)      | NO   | PRI | NULL    |       |
| nipFK            | int(11)      | YES  |     | NULL    |       |
| nama_mahasiswa   | varchar(45)  | NO   |     | NULL    |       |
| alamat_mahasiswa | varchar(255) | NO   |     | NULL    |       |
+------------------+--------------+------+-----+---------+-------+
4 rows in set (0.292 sec)
```