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PRAKTIKUM SISTEM BASIS DATA

MODUL 4

DATA DEFINITION LANGUAGE (DDL)

Langkah – langkah praktikum:

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -t
C:\xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root -t
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.6-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '?' for help. Type 'c' to clear the current input statement.

MariaDB [(none)]>
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.009 sec)

MariaDB [(none)]> use database perbankan;
ERROR 1049 (42000): Unknown database 'database'
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(45) not null, alamat_nasabah varchar(255) not null);
ERROR 1060 (42221): Duplicate column name 'alamat_nasabah'
MariaDB [perbankan]> 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 (0.029 sec)

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 (0.040 sec)

MariaDB [perbankan]> create table rekening(no_rekening integer primary key, kode_cabangFK varchar(20) reference 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 MariaDB server version for the right syntax to use near 'cabang_bank(kode_cabang) on delete cascade on update c
ascade, pin varchar(20) de' at line 1
MariaDB [perbankan]> create table rekening(no_rekening integer primary key, kode_cabang FK varchar(20) reference 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 MariaDB server version for the right syntax to use near 'FK varchar(20) reference cabang_bank(kode_cabang) on d
elete cascade on update ca' at line 1
MariaDB [perbankan]> create table rekening(no_rekening integer primary key, kode_cabangFK varchar(20) reference 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 MariaDB server version for the right syntax to use near 'cabang_bank(kode_cabang) on delete cascade on update c
ascade, pin varchar(20) de' at line 1
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 (0.042 sec)

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 (0.038 sec)

MariaDB [perbankan]> 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));
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -t

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi             |
+-----+
5 rows in set (0.010 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 (0.025 sec)

MariaDB [perbankan]> describe nasabah;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| id_nasabah | int(11)   | NO   | PRI | NULL    |       |
| nama_nasabah | varchar(45) | NO   |     | NULL    |       |
| alamat_nasabah | varchar(255) | NO   |     | NULL    |       |
+-----+
3 rows in set (0.022 sec)

MariaDB [perbankan]> describe nasabah_has_rekening;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| id_nasabahFK | int(11) | NO   | PRI | NULL    |       |
| no_rekeningFK | int(11) | NO   | PRI | NULL    |       |
+-----+
2 rows in set (0.020 sec)

MariaDB [perbankan]> describe rekening;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| no_rekening | int(11)   | NO   | PRI | NULL    |       |
| kode_cabangFK | varchar(20) | YES  | PRI | NULL    |       |
| pin         | varchar(20) | NO   |     | 1234    |       |
+-----+
3 rows in set (0.020 sec)
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -t

MariaDB [perbankan]> describe rekening;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| no_rekening | int(11)   | NO   | PRI | NULL    |       |
| kode_cabangFK | varchar(20) | YES  | PRI | NULL    |       |
| pin         | varchar(20) | NO   |     | 1234    |       |
| saldo       | int(11)   | NO   |     | 0        |       |
+-----+
4 rows in set (0.031 sec)

MariaDB [perbankan]> describe transaksi;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| no_transaksi | bigint(20) unsigned | NO   | PRI | NULL    | auto_increment |
| id_nasabahFK | int(11)   | YES  |     | NULL    |       |
| no_rekeningFK | int(11)   | YES  |     | NULL    |       |
| jenis_transaksi | varchar(20) | NO   |     | debit   |       |
| tanggal     | datetime  | NO   |     | current_timestamp() |       |
| jumlah      | int(11)   | NO   |     | NULL    |       |
+-----+
6 rows in set (0.024 sec)

MariaDB [perbankan]>
```