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Kelas : A

MODUL 4. DATA DEFINITION LANGUAGE(DDL)

Latihan

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Command Prompt - mysql -u root -p
C:\Users\NUR FITRIA MELANI>cd\

C:\>cd C:\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 8
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 (0.006 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(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 (0.024 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 (0.018 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, 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 version for the right syntax to use near 'TIMESTAMP, jumlah INTEGER NOT NULL CHECK(jumlah>=20000))' at line 1
MariaDB [perbankan]> CREATE TABLE transaksi(no_transaksi SERIAL PRIMARY KEY, id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) 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 (0.130 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));
Query OK, 0 rows affected (0.019 sec)
```

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi             |
+-----+
5 rows in set (0.017 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 (0.017 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 (0.014 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        |       |
+-----+
```

TUGAS

```
Command Prompt - mysql -u root -p
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C:\Users\NUR FITRIA MELANI>cd\

C:\>cd C:\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 29
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 |
| mahasiswa |
| mahasiswa2 |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
8 rows in set (0.001 sec)

MariaDB [(none)]> create database datakuliah
-> ;
Query OK, 1 row affected (0.004 sec)

MariaDB [(none)]> use datakuliah;
Database changed
MariaDB [datakuliah]> CREATE TABLE mahasiswa(nim INTEGER PRIMARY KEY,
-> nama_mahasiswa VARCHAR(45) NOT NULL,
-> alamat_mahasiswa VARCHAR(255) NOT NULL
-> );
```

```
Command Prompt - mysql -u root -p
Query OK, 0 rows affected (0.027 sec)

MariaDB [datakuliah]> CREATE TABLE dosen(nidn INTEGER PRIMARY KEY,nama_dosen VARCHAR(45) NOT NULL
-> , alamat_dosen VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.018 sec)

MariaDB [datakuliah]> CREATE TABLE mata_kuliah(kode_mk INTEGER PRIMARY KEY, nama_mk VARCHAR(45) NOT NULL, sks_mk INTEGER NOT NULL, semester_mk INTEGER NOT NULL);
Query OK, 0 rows affected (0.017 sec)

MariaDB [datakuliah]> CREATE TABLE ruang_kelas(kode_ruang INTEGER PRIMARY KEY, kapasitas_ruang INTEGER NOT NULL);
Query OK, 0 rows affected (0.019 sec)

MariaDB [datakuliah]> CREATE TABLE mahasiswa_has_matakuliah(nimFK INTEGER REFERENCES mahasiswa(nim) ON DELETE CASCADE ON UPDATE CASCADE, kode_mkFK INTEGER REFERENCES matakuliah(kode_mk) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(nimFK, kode_mkFK));
Query OK, 0 rows affected (0.020 sec)
```

```
Command Prompt - mysql -u root -p

MariaDB [datakuliah]> show tables;
+-----+
| Tables_in_datakuliah |
+-----+
| dosen |
| mahasiswa |
| mahasiswa_has_matakuliah |
| mata_kuliah |
| ruang_kelas |
+-----+
5 rows in set (0.001 sec)

MariaDB [datakuliah]> describe mahasiswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nim | int(11) | NO | PRI | NULL | |
| nama_mahasiswa | varchar(45) | NO | | NULL | |
| alamat_mahasiswa | varchar(255) | NO | | NULL | |
+-----+
3 rows in set (0.008 sec)

MariaDB [datakuliah]> describe dosen;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nidn | int(11) | NO | PRI | NULL | |
| nama_dosen | varchar(45) | NO | | NULL | |
| alamat_dosen | varchar(255) | NO | | NULL | |
+-----+
3 rows in set (0.009 sec)
```

```
MariaDB [datakuliah]> describe matakuliah;  
ERROR 1146 (42S02): Table 'datakuliah.matakuliah' doesn't exist  
MariaDB [datakuliah]> describe mata_kuliah;
```

Field	Type	Null	Key	Default	Extra
kode_mk	int(11)	NO	PRI	NULL	
nama_mk	varchar(45)	NO		NULL	
sks_mk	int(11)	NO		NULL	
semester_mk	int(11)	NO		NULL	

```
4 rows in set (0.009 sec)
```

```
MariaDB [datakuliah]> describe mahasiswa_has_matakuliah;
```

Field	Type	Null	Key	Default	Extra
nimFK	int(11)	NO	PRI	NULL	
kode_mkFK	int(11)	NO	PRI	NULL	

```
2 rows in set (0.012 sec)
```

```
MariaDB [datakuliah]>
```