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Kelas : B

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Modul 4

Latihan

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18363.720]
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C:\Users\Ibnul Faim Wakhidiaz>cd..
C:\Users>cd..
C:\>cd C:\xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password: *****
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
C:\xampp\mysql\bin>mysql -u root -p
Enter password: *****
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
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 4
Server version: 10.1.38-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 database;
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 'database' at line 1
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.00 sec)

MariaDB [(none)]> create database perbankn;
Query OK, 1 row affected (0.01 sec)

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

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Command Prompt - mysql -u root -p
Query OK, 1 row affected (0.01 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
6 rows in set (0.00 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 (0.03 sec)

MariaDB [perbankan]> CREATE TABLE cabang_bank(
  -> kode_cabang VARCHAR(20) PRIMARY KEY,
  -> nama_bank VARCHAR(45) UNIQUE NOT NULL,
  -> alamat_bank VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.02 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 (0.03 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)
  -> );
```

```
Command Prompt - mysql -u root -p
  -> 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 ''debit' NOT NULL,
tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
jumlah IN' at line 7
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)
  -> );
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 ''debit' NOT NULL,
tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
jumlah IN' at line 7
MariaDB [perbankan]> CREATE TABLE transaksi SERIAL PRIMARY KEY, id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE SET NULL ON UPDATE CASCADE, no_rekeningFK INTEGER REFERENCES rekening(no_re
ning) 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 (0.03 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 CASCA
DE ON UPDATE CASCADE, PRIMARY KEY(id_nasabahFK, no_rekeningFK));
Query OK, 0 rows affected (0.02 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank |
| nasabah |
| nasabah_has_rekening |
| rekening |
| transaksi |
+-----+
5 rows in set (0.00 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 (0.02 sec)

MariaDB [perbankan]>
```

Tugas

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Command Prompt - mysql -u root -p
6 rows in set (0.01 sec)

MariaDB [perbankan]> use mysql
Database changed
MariaDB [mysql]> create database data_kuliah;
Query OK, 1 row affected (0.00 sec)

MariaDB [mysql]> show databases;
+-----+
| Database |
+-----+
| data_kuliah |
| information_schema |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.00 sec)

MariaDB [mysql]> use data_kuliah;
Database changed
MariaDB [data_kuliah]> CREATE TABLE mahasiswa(nim_mahasiswa VARCHAR(10) PRIMARY KEY,alamat_mahasiswa VARCHAR(45) NOT NULL,nama_mahasiswa VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

MariaDB [data_kuliah]> CREATE TABLE dosen(id_dosen INTEGER PRIMARY KEY,nama_dosen VARCHAR(45) NOT NULL,alamat_dosen VARCHAR(255) 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 'KKEY,nama_dosen VARCHAR(45) NOT NULL,alamat_dosen VARC
MAR(255) NOT NULL)' at line 1
MariaDB [data_kuliah]> CREATE TABLE dosen(id_dosen INTEGER PRIMARY KEY,nama_dosen VARCHAR(45) NOT NULL,alamat_dosen VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

MariaDB [data_kuliah]> CREATE TABLE mata_kuliah(kode_matkul VARCHAR(10) PRIMARY KEY,nama_matkul VARCHAR(45) NOT NULL,dosen_pengampu VARCHAR(45));
Query OK, 0 rows affected (0.02 sec)

MariaDB [data_kuliah]> CREATE TABLE ruang_kelas(nomor_ruang VARCHAR(5) PRIMARY KEY, nama_ruang_kelasFK VARCHAR(10) REFERENCES dosen(nama_dosen));
Query OK, 0 rows affected (0.04 sec)

MariaDB [data_kuliah]> show table;
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 '' at line 1
MariaDB [data_kuliah]> show tables;
+-----+
| Tables_in_data_kuliah |
+-----+
| dosen |
| mahasiswa |
| mata_kuliah |
| ruang_kelas |
+-----+
```

```
Command Prompt - mysql -u root -p
MariaDB [data_kuliah]> CREATE TABLE dosen(id_dosen INTEGER PRIMARY KKEY,nama_dosen VARCHAR(45) NOT NULL,alamat_dosen VARCHAR(255) NOT NULL);
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MAR(255) NOT NULL)' at line 1
MariaDB [data_kuliah]> CREATE TABLE dosen(id_dosen INTEGER PRIMARY KEY,nama_dosen VARCHAR(45) NOT NULL,alamat_dosen VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

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MariaDB [data_kuliah]> show table;
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 '' at line 1
MariaDB [data_kuliah]> show tables;
+-----+
| Tables_in_data_kuliah |
+-----+
| dosen |
| mahasiswa |
| mata_kuliah |
| ruang_kelas |
+-----+
4 rows in set (0.00 sec)

MariaDB [data_kuliah]> describe mahasiswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nim_mahasiswa | varchar(10) | NO | PRI | NULL | |
| alamat_mahasiswa | varchar(45) | NO | | NULL | |
| nama_mahasiswa | varchar(255) | NO | | NULL | |
+-----+
3 rows in set (0.01 sec)

MariaDB [data_kuliah]>
```