

# Praktikum Basis Data Modul 4

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Kelas : D

## LATIHAN

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.719]
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C:\Users\vasus>cd
C:\Users\vasus

C:\Users\vasus>cd c:\

c:\>cd c
The system cannot find the path specified.

c:\>cd C:\xampp\mysql\bin

C:\xampp\mysql\bin>-u root -p
'-u' is not recognized as an internal or external command,
operable program or batch file.

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: 10.4.8-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)]>
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| boking   |
| information_schema |
| mysql    |
| performance_schema |
| phpmyadmin |
| test     |
+-----+
6 rows in set (0.035 sec)

MariaDB [(none)]> use boking;
Database changed
MariaDB [boking]> show tables;
```

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Command Prompt - mysql -u root -p
MariaDB [(none)]> use boking;
Database changed
MariaDB [boking]> show tables;
+-----+
| Tables_in_boking |
+-----+
| booking           |
+-----+
1 row in set (0.001 sec)

MariaDB [boking]> 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 (0.291 sec)

MariaDB [boking]> 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 (0.323 sec)

MariaDB [boking]> 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
  -> );
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 'rekening I
INTEGER PRIMARY KEY,
kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(' at line 2
MariaDB [boking]> 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 (0.336 sec)

MariaDB [boking]> create table transaksi(
```

```
Select Command Prompt - mysql -u root -p
MariaDB [boking]> 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 (0.252 sec)

MariaDB [boking]> create table nasabah_has_rekening(
  -> 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,
  -> PRIMARY KEY(id_nasabahFK, no_rekeningFK)
  -> );
Query OK, 0 rows affected (0.240 sec)

MariaDB [boking]> show tables;
+-----+
| Tables_in_boking |
+-----+
| booking           |
| cabang_bank       |
| nasabah           |
| nasabah_has_rekening |
| rekening          |
| transaksi         |
+-----+
6 rows in set (0.002 sec)

MariaDB [boking]> 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 (0.007 sec)
```

## TUGAS

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.719]
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C:\Users\asus>cd c:\

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: 10.4.8-MariaDB mariadb.org binary distribution

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MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| boking   |
| information_schema |
| mysql    |
| performance_schema |
| phpmyadmin |
| test     |
+-----+
6 rows in set (0.002 sec)

MariaDB [(none)]> use boking;
Database changed
MariaDB [boking]> show tables;
+-----+
| Tables_in_boking |
+-----+
| booking           |
| cabang_bank        |
| nasabah           |
| nasabah_has_rekening |
| rekening          |
| transaksi         |
+-----+
6 rows in set (0.001 sec)
```

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

MariaDB [boking]> create table Mahasiswa(
  -> NIM_Mahasiswa INTEGER PRIMARY KEY,
  -> Nama_Mahasiswa VARCHAR(45) NOT NULL,
  -> Alamat_Mahasiswa Varchar(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.248 sec)

MariaDB [boking]> 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 ')' at line 5
MariaDB [boking]> 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 ')' at line 5
MariaDB [boking]> 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 (0.225 sec)

MariaDB [boking]> create table Kuliah(
  -> Kode_MataKuliah INTEGER PRIMARY KEY,
  -> Nama_MataKuliah VARCHAR(45) NOT NULL,
  -> Dosen_Pengampu VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (0.225 sec)

MariaDB [boking]> create table Kelas(
```

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

MariaDB [boking]> create table Kelas(
  -> Kode_Kelas INTEGER PRIMARY KEY,
  -> Nama_Ruang VARCHAR(45) NOT NULL
  -> );
Query OK, 0 rows affected (0.225 sec)

MariaDB [boking]> show tables;
+-----+
| Tables_in_boking |
+-----+
| booking           |
| cabang_bank       |
| dosen             |
| kelas             |
| kuliah            |
| mahasiswa         |
| nasabah           |
| nasabah_has_rekening |
| rekening          |
| transaksi         |
+-----+
10 rows in set (0.001 sec)

MariaDB [boking]> describe mahasiswa
  ->
  -> );
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 3

MariaDB [boking]> describe mahasiswa;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| NIM_Mahasiswa  | int(11)       | NO   | PRI | NULL    |       |
| Nama_Mahasiswa | varchar(45)   | NO   |     | NULL    |       |
| Alamat_Mahasiswa | varchar(255) | NO   |     | NULL    |       |
+-----+
3 rows in set (0.006 sec)

MariaDB [boking]> describe dosen;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| Id_Dosen   | int(11)       | NO   | PRI | NULL    |       |
+-----+
```

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

MariaDB [boking]> describe mahasiswa
  ->
  -> );
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 3

MariaDB [boking]> describe mahasiswa;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| NIM_Mahasiswa  | int(11)       | NO   | PRI | NULL    |       |
| Nama_Mahasiswa | varchar(45)   | NO   |     | NULL    |       |
| Alamat_Mahasiswa | varchar(255) | NO   |     | NULL    |       |
+-----+
3 rows in set (0.006 sec)

MariaDB [boking]> describe dosen;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| id_Dosen   | int(11)       | NO   | PRI | NULL    |       |
| nama_Dosen | varchar(45)   | NO   |     | NULL    |       |
| alamat_Dosen | varchar(255) | NO   |     | NULL    |       |
+-----+
3 rows in set (0.010 sec)

MariaDB [boking]> describe kuliah;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| Kode_MataKuliah | int(11)       | NO   | PRI | NULL    |       |
| Nama_MataKuliah | varchar(45)   | NO   |     | NULL    |       |
| Dosen_Pengampu  | varchar(255) | NO   |     | NULL    |       |
+-----+
3 rows in set (0.006 sec)

MariaDB [boking]> describe kelas;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| Kode_Kelas | int(11)       | NO   | PRI | NULL    |       |
| Nama_Ruang  | varchar(45)   | NO   |     | NULL    |       |
+-----+
2 rows in set (0.007 sec)
```