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## MODUL 4

### LATIHAN

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.17134.1304]
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C:\Users\Novera dyah ayu>cd..

C:\Users>cd..

C:\>cd..

C:\>E:\
'E:\' is not recognized as an internal or external command,
operable program or batch file.

C:\>E:

E:\>cd software free

E:\software free>cd xampp\mysql\bin

E:\software free\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 11
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 |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
6 rows in set (0.001 sec)
```

Command Prompt - mysql -u root -p

```
MariaDB [(none)]> drop databases perbankan;
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 'databases p
erbankan' at line 1
MariaDB [(none)]> drop database perbankan;
Query OK, 3 rows affected (0.234 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [(none)]> 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 (0.124 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 (0.090 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 (0.139 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 (0.168 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 (0.138 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 (0.001 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 (0.009 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 (0.008 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 (0.031 sec)
```

# TUGAS (DATA KULIAH)

```
CA: Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.17134.1304]
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C:\Users\Novera dyah ayu>cd..

C:\Users>cd..

C:\>E:

E:\>cd software free

E:\software free>cd xampp\mysql\bin

E:\software free\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 14
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.
```

```
CA: Command Prompt - mysql -u root -p
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
6 rows in set (0.001 sec)

MariaDB [(none)]> create database datakuliah;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> use datakuliah;
Database changed
MariaDB [datakuliah]> CREATE TABLE mahasiswa ( id_mahasiswa INTEGER PRIMARY KEY, nama_mahasiswa VARCHAR(45) NOT NULL, alamat_mahasiswa VARCHAR(255) NOT NULL, ttl_mahasiswa VARCHAR(50) NOT NULL );
Query OK, 0 rows affected (0.128 sec)

MariaDB [datakuliah]> CREATE TABLE dosen ( id_dosen INTEGER PRIMARY KEY, nama_dosen VARCHAR(45) NOT NULL, alamat_dosen VARCHAR(255) NOT NULL, ttl_dosen VARCHAR(50) NOT NULL, kode_dosen VARCHAR(15) NOT NULL );
Query OK, 0 rows affected (0.096 sec)

MariaDB [datakuliah]> CREATE TABLE matakuliah ( kode_matakuliah INTEGER PRIMARY KEY, nama_matakuliah VARCHAR(100) NOT NULL );
Query OK, 0 rows affected (0.163 sec)

MariaDB [datakuliah]> CREATE TABLE ruangkelas ( kode_ruangkelas INTEGER PRIMARY KEY, kapasitas_ruangkelas INTEGER NOT NULL );
Query OK, 0 rows affected (0.133 sec)

MariaDB [datakuliah]> CREATE TABLE mahasiswa_has_matakuliah ( id_mahasiswaFK INTEGER REFERENCES mahasiswa(id_mahasiswa) ON DELETE CASCADE ON UPDATE CASCADE, kode_matakuliahFK INTEGER REFERENCES matakuliah(kode_matakuliah) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(id_mahasiswaFK, kode_matakuliahFK) );
Query OK, 0 rows affected (0.122 sec)

MariaDB [datakuliah]> CREATE TABLE mahasiswa_has_dosen ( id_mahasiswaFK INTEGER REFERENCES mahasiswa(id_mahasiswa) ON DELETE CASCADE ON UPDATE CASCADE, kode_dosenFK INTEGER REFERENCES dosen(kode_dosen) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(id_mahasiswaFK, kode_dosenFK) );
Query OK, 0 rows affected (0.125 sec)
```

CA. Command Prompt - mysql -u root -p

MariaDB [datakuliah]> show tables;

Tables_in_datakuliah
dosen
mahasiswa
mahasiswa_has_dosen
mahasiswa_has_matakuliah
matakuliah
ruangkelas

6 rows in set (0.001 sec)

MariaDB [datakuliah]> 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	
ttl_dosen	varchar(50)	NO		NULL	
kode_dosen	varchar(15)	NO		NULL	

5 rows in set (0.008 sec)

MariaDB [datakuliah]> describe mahasiswa;

Field	Type	Null	Key	Default	Extra
id_mahasiswa	int(11)	NO	PRI	NULL	
nama_mahasiswa	varchar(45)	NO		NULL	
alamat_mahasiswa	varchar(255)	NO		NULL	
ttl_mahasiswa	varchar(50)	NO		NULL	

4 rows in set (0.008 sec)

MariaDB [datakuliah]> describe mahasiswa\_has\_dosen;

Field	Type	Null	Key	Default	Extra
id_mahasiswaFK	int(11)	NO	PRI	NULL	
kode_dosenFK	int(11)	NO	PRI	NULL	



CA: Command Prompt - mysql -u root -p

MariaDB [datakuliah]> describe mahasiswa\_has\_dosen;

Field	Type	Null	Key	Default	Extra
id_mahasiswaFK	int(11)	NO	PRI	NULL	
kode_dosenFK	int(11)	NO	PRI	NULL	

2 rows in set (0.009 sec)

MariaDB [datakuliah]> describe mahasiswa\_has\_matakuliah;

Field	Type	Null	Key	Default	Extra
id_mahasiswaFK	int(11)	NO	PRI	NULL	
kode_matakuliahFK	int(11)	NO	PRI	NULL	

2 rows in set (0.008 sec)

MariaDB [datakuliah]> describe ruangkelas;

Field	Type	Null	Key	Default	Extra
kode_ruangkelas	int(11)	NO	PRI	NULL	
kapasitas_ruangkelas	int(11)	NO		NULL	

2 rows in set (0.008 sec)

MariaDB [datakuliah]> describe matakuliah;

Field	Type	Null	Key	Default	Extra
kode_matakuliah	int(11)	NO	PRI	NULL	
nama_matakuliah	varchar(100)	NO		NULL	

2 rows in set (0.008 sec)

MariaDB [datakuliah]>