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MODUL4

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.17134.885]
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C:\Users\ACER>cd\

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

C:\xampp\mysql\bin>mysql\ -u root -p
'mysql\' 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: 10.4.11-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)]>
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.098 sec)

MariaDB [(none)]>
```

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

MariaDB [(none)]> create database perbankan;
ERROR 1007 (HY000): Can't create database 'perbankan'; database exists
MariaDB [(none)]> create database Perbankan;
ERROR 1007 (HY000): Can't create database 'perbankan'; database exists
MariaDB [(none)]> create database perbankann;
Query OK, 1 row affected (0.001 sec)

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

MariaDB [(none)]> use perbankann;
Database changed
MariaDB [perbankann]> 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 (0.355 sec)
```

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Command Prompt - mysql -u root -p

MariaDB [perbankann]> 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 (0.470 sec)

MariaDB [perbankann]> 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 (0.334 sec)

MariaDB [perbankann]> 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 (0.359 sec)

MariaDB [perbankann]> 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 (0.598 sec)
```

```
Command Prompt - mysql -u root -p
MariaDB [perbankann]> show tables;
+-----+
| Tables_in_perbankann |
+-----+
| cabang_bank           |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.001 sec)

MariaDB [perbankann]> desc 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 (0.113 sec)

MariaDB [perbankann]> desc 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 (0.076 sec)

MariaDB [perbankann]> desc 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 (0.006 sec)
```

```
MariaDB [perbankann]> desc 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 (0.006 sec)

MariaDB [perbankann]> desc 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 (0.053 sec)

MariaDB [perbankann]>
```

Tugas

```
Command Prompt - mysql -u root
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\dell>cd..

C:\Users>cd..

C:\>cd xampp

C:\xampp>cd mysql

C:\xampp\mysql>cd bin

C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 2
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 databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.10 sec)

MariaDB [(none)]> create database e-raport;
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 '-raport' at line 1
MariaDB [(none)]> create database raport;
Query OK, 1 row affected (0.04 sec)
```

```
Command Prompt - mysql -u root

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

MariaDB [(none)]> use raport;
Database changed
MariaDB [raport]> create table siswa;
ERROR 1113 (42000): A table must have at least 1 column
MariaDB [raport]> create table siswa(
    -> no_induk_siswa integer(20) primary key,
    -> nama_siswa varchar(45),
    -> alamat_siswa(255));
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 '(255))' at line 4
MariaDB [raport]> create table siswa(
    -> no_induk_siswa integer(20) primary key,
    -> nama_siswa varchar(45),
    -> alamat_siswa varchar(255));
Query OK, 0 rows affected (0.29 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| siswa |
+-----+
1 row in set (0.00 sec)

MariaDB [raport]> create table guru(
    -> nip_guru integer(20) primary key,
    -> nama_guru varchar(45),
    -> alamat_guru varchar(255));
Query OK, 0 rows affected (0.25 sec)
```

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MariaDB [raport]> create table mata_pelajaran(
  -> kode_mapel varchar(20) primary key,
  -> nilai integer(20),
  -> kkm integer(20));
Query OK, 0 rows affected (0.28 sec)

MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswa integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
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 'siswa(no_in
duk_siswa) on delete cascade on update cascade,
nama_ortu varchar(45)' at line 3
MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswa integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
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 'siswa(no_in
duk_siswa) on delete cascade on update cascade,
nama_ortu varchar(45)' at line 3
MariaDB [raport]> desc siswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_induk_siswa | int(20) | NO | PRI | NULL | |
| nama_siswa | varchar(45) | YES | | NULL | |
| alamat_siswa | varchar(255) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.12 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru |
| mata_pelajaran |
| siswa |
+-----+
3 rows in set (0.00 sec)

```

```

MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswa integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
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 'delete casc
ade on update cascade,
nama_ortu varchar(45),
jenis_kelamin varchar(45)' at line 3
MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswa integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
Query OK, 0 rows affected (0.25 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru |
| mata_pelajaran |
| orang_tua |
| siswa |
+-----+
4 rows in set (0.00 sec)

MariaDB [raport]> desc orang_tua;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nik_ortu | int(20) | NO | PRI | NULL | |
| no_induk_siswa | int(20) | YES | | NULL | |
| nama_ortu | varchar(45) | YES | | NULL | |
| jenis_kelamin | varchar(45) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

MariaDB [raport]> create table guru_has_siswa(
  -> nip_guru integer(20) references guru(nip_guru) on delete cascade on update cascade,
  -> no_induk_siswa integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
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 'cascade,
no_induk_siswa integer(20) references siswa(no_induk_siswa) on delete' at line 2

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```
Command Prompt - mysql -u root

MariaDB [raport]> create table guru_has_siswa(
  -> nip_gurufk integer(20) references guru(nip_guru) on delete cascade on update cascade,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
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 'cascade,
no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete' at line 2
MariaDB [raport]> create table guru_has_siswa(
  -> nip_gurufk integer(20) references guru(nip_guru) on delete cascade on update cascade,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
Query OK, 0 rows affected (0.26 sec)

MariaDB [raport]> desc guru_has_siswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nip_gurufk | int(20) | YES | | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
+-----+
2 rows in set (0.02 sec)

MariaDB [raport]> create table guru_has_mata_pelajaran(
  -> nip_gurufk integer(20) references guru(nip_guru) on delete cascade on update cascade,
  -> kode_mapelfk varchar(20) references mata_pelajaran(kode_mapel) on delete cascade on update cascade);
Query OK, 0 rows affected (0.30 sec)

MariaDB [raport]> desc guru_has_mata_pelajaran;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nip_gurufk | int(20) | YES | | NULL | |
| kode_mapelfk | varchar(20) | YES | | NULL | |
+-----+
2 rows in set (0.10 sec)

MariaDB [raport]> create table mata_pelajaran_has_siswa(
  -> kode_mapelfk varchar(20) references mata_pelajaran(kode_mapel) on delete cascade on update cascade,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
Query OK, 0 rows affected (0.26 sec)

MariaDB [raport]> desc mata_pelajaran_has_siswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mapelfk | varchar(20) | YES | | NULL | |
+-----+

Command Prompt - mysql -u root

MariaDB [raport]> desc mata_pelajaran_has_siswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mapelfk | varchar(20) | YES | | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
+-----+
2 rows in set (0.02 sec)

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

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru |
| guru_has_mata_pelajaran |
| guru_has_siswa |
| mata_pelajaran |
| mata_pelajaran_has_siswa |
| orang_tua |
| siswa |
+-----+
7 rows in set (0.00 sec)

MariaDB [raport]> desc guru;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nip_guru | int(20) | NO | PRI | NULL | |
| nama_guru | varchar(45) | YES | | NULL | |
| alamat_guru | varchar(255) | YES | | NULL | |
+-----+
```

Hasil

```
Command Prompt - mysql -u root
2 rows in set (0.02 sec)

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

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru |
| guru_has_mata_pelajaran |
| guru_has_siswa |
| mata_pelajaran |
| mata_pelajaran_has_siswa |
| orang_tua |
| siswa |
+-----+
7 rows in set (0.00 sec)

MariaDB [raport]> desc guru;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nip_guru | int(20) | NO | PRI | NULL | |
| nama_guru | varchar(45) | YES | | NULL | |
| alamat_guru | varchar(255) | YES | | NULL | |
+-----+
3 rows in set (0.02 sec)

MariaDB [raport]> desc guru_has_mata_pelajaran;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nip_gurufk | int(20) | YES | | NULL | |
| kode_mapelfk | varchar(20) | YES | | NULL | |
+-----+
2 rows in set (0.00 sec)
```

```
Command Prompt - mysql -u root

MariaDB [raport]> desc guru_has_siswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nip_gurufk | int(20) | YES | | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
+-----+
2 rows in set (0.11 sec)

MariaDB [raport]> desc mata_pelajaran;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mapel | varchar(20) | NO | PRI | NULL | |
| nilai | int(20) | YES | | NULL | |
| kkm | int(20) | YES | | NULL | |
+-----+
3 rows in set (0.02 sec)

MariaDB [raport]> desc mata_pelajaran_has_siswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mapelfk | varchar(20) | YES | | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
+-----+
2 rows in set (0.02 sec)

MariaDB [raport]> desc orang_tua;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| nik_oru | int(20) | NO | PRI | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
+-----+
2 rows in set (0.02 sec)
```

Command Prompt - mysql -u root

MariaDB [raport]> desc mata_pelajaran;

| Field | Type | Null | Key | Default | Extra |
|------------|-------------|------|-----|---------|-------|
| kode_mapel | varchar(20) | NO | PRI | NULL | |
| nilai | int(20) | YES | | NULL | |
| kkm | int(20) | YES | | NULL | |

3 rows in set (0.02 sec)

MariaDB [raport]> desc mata_pelajaran_has_siswa;

| Field | Type | Null | Key | Default | Extra |
|-------------------|-------------|------|-----|---------|-------|
| kode_mapel_fk | varchar(20) | YES | | NULL | |
| no_induk_siswa_fk | int(20) | YES | | NULL | |

2 rows in set (0.02 sec)

MariaDB [raport]> desc orang_tua;

| Field | Type | Null | Key | Default | Extra |
|-------------------|-------------|------|-----|---------|-------|
| nik_oru | int(20) | NO | PRI | NULL | |
| no_induk_siswa_fk | int(20) | YES | | NULL | |
| Nama_oru | varchar(45) | YES | | NULL | |
| jenis_kelamin | varchar(45) | YES | | NULL | |

4 rows in set (0.02 sec)

MariaDB [raport]> desc siswa;

| Field | Type | Null | Key | Default | Extra |
|----------------|--------------|------|-----|---------|-------|
| no_induk_siswa | int(20) | NO | PRI | NULL | |
| Nama_siswa | varchar(45) | YES | | NULL | |
| alamat_siswa | varchar(255) | YES | | NULL | |

3 rows in set (0.02 sec)

MariaDB [raport]> .