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Kegiatan

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C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\VASUS>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 9
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 (0.152 sec)

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> use perbankan;CREATE TABLE nasabah ( id_nasabah INTEGER PRIMARY KEY, nama_nasabah VARCHAR(45) NOT NULL, alamat_nasabah VARCHAR(255)NOT NULL);
Database changed
Query OK, 0 rows affected (0.324 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| nasabah              |
+-----+
1 row in set (0.111 sec)

MariaDB [perbankan]> use perbankan;CREATE TABLE nasabah ( id_nasabah INTEGER PRIMARY KEY, nama_nasabah VARCHAR(45) NOT NULL, alamat_nasabah VARCHAR(255)NOT NULL);
Database changed
ERROR 1050 (42501): Table 'nasabah' already exists
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 (0.537 sec)

MariaDB [perbankan]> show tables
-> show tables
-> use 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 'show tables
use perbankan' at line 2
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Query OK, 1 row affected (0.152 sec)

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> use perbankan;CREATE TABLE nasabah ( id_nasabah INTEGER PRIMARY KEY, nama_nasabah VARCHAR(45) NOT NULL, alamat_nasabah VARCHAR(255)NOT NULL);
Database changed
Query OK, 0 rows affected (0.324 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| nasabah              |
+-----+
1 row in set (0.111 sec)

MariaDB [perbankan]> use perbankan;CREATE TABLE nasabah ( id_nasabah INTEGER PRIMARY KEY, nama_nasabah VARCHAR(45) NOT NULL, alamat_nasabah VARCHAR(255)NOT NULL);
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Query OK, 0 rows affected (0.537 sec)

MariaDB [perbankan]> show tables
-> show tables
-> use 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 'show tables
use perbankan' at line 2

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
+-----+
2 rows in set (0.001 sec)

MariaDB [perbankan]> CREATE TABLE rekening (no_rekening INTEGER PRIMARY KEY, kode_cabang FK 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 'FK VARCHAR(
20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE C' at line 1
MariaDB [perbankan]> CREATE TABLE rekening (no_rekening INTEGER PRIMARY KEY, kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE C
ASCADE, pin VARCHAR(20) DEFAULT '1234' NOT NULL, saldo INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.221 sec)

MariaDB [perbankan]> show tables;
```

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C:\WINDOWS\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> CREATE TABLE rekening (no_rekening INTEGER PRIMARY KEY, kode_cabang FK 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 'FK VARCHAR(
20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE C' at line 1
MariaDB [perbankan]> CREATE TABLE rekening (no_rekening INTEGER PRIMARY KEY, kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang) ON DELETE CASCADE ON UPDATE C
ASCADE, pin VARCHAR(20) DEFAULT '1234' NOT NULL, saldo INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.221 sec)

MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| rekening             |
+-----+
3 rows in set (0.001 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));
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 'DEFAULT CUR
RENT_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,
no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE SET NULL ON UPDATE CASCADE, jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL, tanggal DATE TIME NO
T 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 'TIME NOT NU
LL DEFAULT CURRENT_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,
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 1054 (42S22): Unknown column 'CURRENT_TIMESTAMP' in 'DEFAULT'
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 (0.197 sec)

MariaDB [perbankan]> 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
```

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C:\WINDOWS\system32\cmd.exe - mysql -u root -p
mysql> NULL DEFAULT CURRENT_TIMESTAMP, jumlah INTEGER NOT NULL CHECK (jumlah>=20000));
ERROR 1064 (42522): Unknown column 'CURRENT_TIMESTAMP' in 'DEFAULT'
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 (0.197 sec)

MariaDB [perbankan]> 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 [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| rekening             |
| transaksi            |
+-----+
4 rows in set (0.003 sec)

MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening( id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE, no_rekeningFK INTEGER R
EFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(id_nasabahFK, no_rekeningFK));
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 'OD UPDATE C
ASCADE, no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DE' at line 1
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening( id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE, no_rekeningFK INTEGER R
EFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(id_nasabahFK, no_rekeningFK));
Query OK, 0 rows affected (0.321 sec)

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    |       |
+-----+
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
4 rows in set (0.003 sec)

MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening( id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE, no_rekeningFK INTEGER R
EFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(id_nasabahFK, no_rekeningFK));
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 'OD UPDATE C
ASCADE, no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DE' at line 1
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening( id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE, no_rekeningFK INTEGER R
EFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE, PRIMARY KEY(id_nasabahFK, no_rekeningFK));
Query OK, 0 rows affected (0.321 sec)

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    |       |
+-----+
5 rows in set (0.128 sec)

MariaDB [perbankan]>
```

TUGAS!

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database universitas;
Query OK, 1 row affected (0.113 sec)

MariaDB [(none)]> use universitas;
Database changed
MariaDB [universitas]> create table mahasiswa(
-> NIM integer primary key,
-> nama varchar(45) not null,
-> alamat varchar(255) not null
-> );
Query OK, 0 rows affected (0.346 sec)

MariaDB [universitas]> create table dosen(
-> NIP integer primary key,
-> nama varchar(45) not null,
-> alamat varchar(255) not null
-> );
Query OK, 0 rows affected (0.277 sec)

MariaDB [universitas]> create table mata_kuliah(
-> kode_mk varchar(10) primary key,
-> nama_mk varchar(30) not null
-> );
Query OK, 0 rows affected (0.132 sec)

MariaDB [universitas]> create table ruang_kelas(
-> kode_ruang varchar(10) primary key,
-> nama_ruang varchar(30) not null
-> );
Query OK, 0 rows affected (0.281 sec)

MariaDB [universitas]> create table mahasiswa_has_dosen(
-> NIMFK integer references mahasiswa(NIM) on delete cascade on update cascade,
-> NIPFK integer references dosen(NIP) on delete cascade on update cascade,
-> primary key(NIMFK, NIPFK)
-> );
Query OK, 0 rows affected (0.202 sec)

MariaDB [universitas]> create table mahasiswa_has_mata_kuliah(
-> NIMFK integer references mahasiswa(NIM) on delete cascade on update cascade,
-> kode_mkFK varchar(10) references mata_kuliah(kode_mk) on delete cascade on update cascade,
-> primary key(NIMFK, kode_mkFK)
-> );
Query OK, 0 rows affected (0.180 sec)
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Query OK, 0 rows affected (0.180 sec)

MariaDB [universitas]> create table dosen_has_mata_kuliah(
  -> NIPFK integer references dosen(NIP) on delete cascade on update cascade,
  -> kode_mkFK varchar(10) references mata_kuliah(kode_mk) on delete cascade on update cascade,
  -> primary key(NIPFK, kode_mkFK)
  -> );
Query OK, 0 rows affected (1.099 sec)

MariaDB [universitas]> create table dosen_has_ruang_kelas(
  -> NIPFK integer references dosen(NIP) on delete cascade on update cascade,
  -> kode_ruangFK varchar(10) references ruang_kelas(kode_ruang) on delete cascade on update cascade,
  -> primary key(NIPFK, kode_ruangFK)
  -> );
Query OK, 0 rows affected (0.165 sec)

MariaDB [universitas]> create table mata_kuliah_has_ruang_kelas(
  -> kode_mkFK varchar(10) references mata_kuliah(kode_mk) on delete cascade on update cascade,
  -> kode_ruangFK varchar(10) references ruang_kelas(kode_ruang) on delete cascade on update cascade,
  -> primary key(kode_mkFK, kode_ruangFK)
  -> );
Query OK, 0 rows affected (0.257 sec)

MariaDB [universitas]> show tables;
+-----+
| Tables_in_universitas |
+-----+
| dosen                  |
| dosen_has_mata_kuliah  |
| dosen_has_ruang_kelas |
| mahasiswa              |
| mahasiswa_has_dosen    |
| mahasiswa_has_mata_kuliah |
| mata_kuliah            |
| mata_kuliah_has_ruang_kelas |
| ruang_kelas            |
+-----+
9 rows in set (0.392 sec)

MariaDB [universitas]> describe dosen;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIP    | int(11) | NO | PRI | NULL | |
| nama   | varchar(45) | NO | | NULL | |
| alamat | varchar(255) | NO | | NULL | |
+-----+
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
9 rows in set (0.392 sec)

MariaDB [universitas]> describe dosen;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIP    | int(11) | NO | PRI | NULL | |
| nama   | varchar(45) | NO | | NULL | |
| alamat | varchar(255) | NO | | NULL | |
+-----+
3 rows in set (0.062 sec)

MariaDB [universitas]> describe mahasiswa;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIM    | int(11) | NO | PRI | NULL | |
| nama   | varchar(45) | NO | | NULL | |
| alamat | varchar(255) | NO | | NULL | |
+-----+
3 rows in set (0.104 sec)

MariaDB [universitas]> describe mata_kuliah;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mk | varchar(10) | NO | PRI | NULL | |
| nama_mk | varchar(30) | NO | | NULL | |
+-----+
2 rows in set (0.104 sec)

MariaDB [universitas]> describe ruang_kelas;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_ruang | varchar(10) | NO | PRI | NULL | |
| nama_ruang | varchar(30) | NO | | NULL | |
+-----+
2 rows in set (0.015 sec)

MariaDB [universitas]> describe dosen_has_mata_kuliah;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIPFK | int(11) | NO | PRI | NULL | |
| kode_mkFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.005 sec)

MariaDB [universitas]> describe dosen_has_ruang_kelas;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIPFK | int(11) | NO | PRI | NULL | |
| kode_ruangFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.067 sec)

MariaDB [universitas]> describe mahasiswa_has_dosen;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIMFK | int(11) | NO | PRI | NULL | |
| NIMFK | int(11) | NO | PRI | NULL | |
+-----+
2 rows in set (0.105 sec)

MariaDB [universitas]> describe mahasiswa_has_mata_kuliah;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIMFK | int(11) | NO | PRI | NULL | |
| kode_mkFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.048 sec)

MariaDB [universitas]> describe mata_kuliah_has_ruang_kelas;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mkFK | varchar(10) | NO | PRI | NULL | |
| kode_ruangFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.015 sec)
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_ruang | varchar(10) | NO | PRI | NULL | |
| nama_ruang | varchar(30) | NO | | NULL | |
+-----+
2 rows in set (0.015 sec)

MariaDB [universitas]> describe dosen_has_mata_kuliah;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIPFK | int(11) | NO | PRI | NULL | |
| kode_mkFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.005 sec)

MariaDB [universitas]> describe dosen_has_ruang_kelas;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIPFK | int(11) | NO | PRI | NULL | |
| kode_ruangFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.067 sec)

MariaDB [universitas]> describe mahasiswa_has_dosen;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIMFK | int(11) | NO | PRI | NULL | |
| NIMFK | int(11) | NO | PRI | NULL | |
+-----+
2 rows in set (0.105 sec)

MariaDB [universitas]> describe mahasiswa_has_mata_kuliah;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| NIMFK | int(11) | NO | PRI | NULL | |
| kode_mkFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.048 sec)

MariaDB [universitas]> describe mata_kuliah_has_ruang_kelas;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| kode_mkFK | varchar(10) | NO | PRI | NULL | |
| kode_ruangFK | varchar(10) | NO | PRI | NULL | |
+-----+
2 rows in set (0.015 sec)
```