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MODUL 4

Data Definition Language (DDL)

Kegiatan Modul (PERBANKAN)

```
Command Prompt - mysql -u root -p
 :\Users\ASUS>cd..
 ::\Users>cd..
C:\>cd C:\xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaOB monitor. Commands end with ; or \g.
Your MariaDB connection id is 22
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
  performance_schema
  phpmyadmin
  rows in set (0.003 sec)
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.003 sec)
```

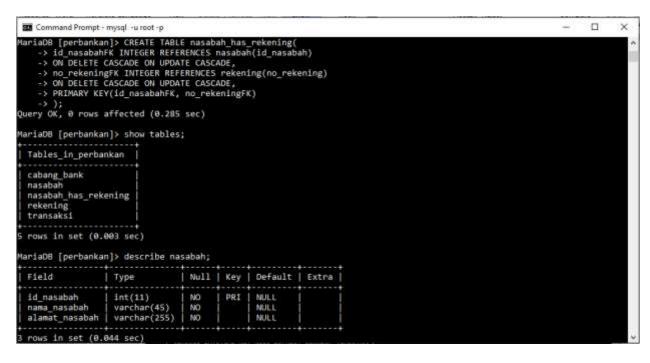
```
Command Prompt - mysql -u root -p
                                                                                                                                                                                    HariaO8 [(none)]> CREATE TABLE masabah
-> id_masabah INTEGER PRIMARY KEY,
     -> nama_nasabah VARCHAR(45) NOT NULL,
-> alamat_nasabah VARCHAR(255) NOT NULL);
ERROR 1046 (3D000): No database selected
 MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> CREATE TABLE nasabah(
-> -> id_nasabah INTEGER PRIMARY KEY,
-> -> nama_nasabah VARCHAR(45) NOT NULL,
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near '-> id_nasabah INTEGER PRIMARY KEY,
-> nama_nasabah VARCHAR(45) NOT NULL,' at line 2
MariaD8 [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 (0.389 sec)
MariaOB [perbankan]> CREATE TABLE cabang_bank(
      -> kode bank VARCHAR(20) PRIMARY KEY,
-> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
-> alamat_cabang VARCHAR(255) NOT NULL
Query OK, 0 rows affected (0.290 sec)
```

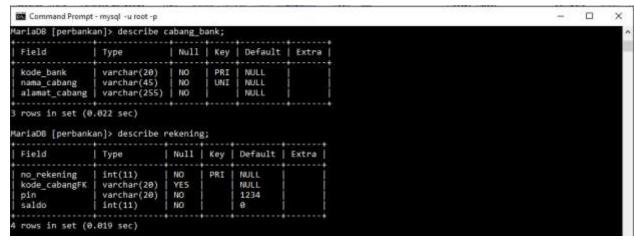
```
MariaDB [perbankan]> CREATE TABLE rekening(
-> no_rekening INTEGER PRIMARY KEY,
-> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang)
-> ON DELETE CASCADE ON UDDATE CASCADE,
-> pin VARCHAR(20) DEFAULT '1234' NOT NULL,
-> saldo INTEGER DEFAULT 0 NOT NULL,
-> );

Query OK, 0 rows affected (0.280 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 CHECK(jumlah>=20000)
-> );

Query OK, 0 rows affected (0.295 sec)
```





```
Command Prompt - mysql -u root -p
ariaDB [perbankan]> describe transaksi;
Field
                   Type
                                            | Null | Key | Default
                                                                                     Extra
 no_transaksi
                     bigint(20) unsigned |
                                              NO
                                                      PRI
                                                             NULL
                                                                                       auto_increment
 id_nasabahFK
                     int(11)
                                              YES
                                                             NULL
                     int(11)
varchar(20)
 no rekeningFK
                                                             NULL
                                              NO
NO
NO
 jenis_transaksi
                                                             debit
                                                             current_timestamp()
NULL
 tanggal
jumlah
                     datetime
                     int(11)
rows in set (0.021 sec)
MariaDB [perbankan]> describe masabah has rekeming;
                 | Type | Null | Key | Default | Extra |
id_nasabahFK | int(11) | NO
no_rekeningFK | int(11) | NO
                                      PRI | NULL
PRI | NULL
rows in set (0.021 sec)
ariaDB [perbankan]>
```

Tugas Modul (KULIAH)

```
Command Prompt - mysql -u root -p
 :\>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 45
Server version: 10.4.11-MariaD0 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;
  information_schema
  mysq1
  perbankan
  performance_schema
 phpmyadmin
test
6 rows in set (0.283 sec)
MariaD8 [(none)]> create database kuliah;
Query OK, 1 row affected (0.004 sec)
MariaDB [(none)]> use kuliah;
Database changed
```

```
MariaDB [kuliah]> CREATE TABLE mahasiswa(
-> nim INTEGER PRIMARY KEY,
-> nama_mhs VARCHAR(45) NOT NULL,
-> alamat_mhs VARCHAR(255) NOT NULL,
-> notlp_mhs INTEGER DEFAULT 0 NOT NULL
-> );
Query OK, 0 rows affected (0.424 sec)

MariaOB [kuliah]> CREATE TABLE dosen(
-> nik INTEGER PRIMARY KEY,
-> nama_dsn VARCHAR(45) NOT NULL,
-> alamat_dsn VARCHAR(45) NOT NULL,
-> jabatam_dsn VARCHAR(45) NOT NULL,
-> notlp_dsn INTEGER DEFAULT 0 NOT NULL,
-> potlp_dsn INTEGER DEFAULT 0 NOT NULL,
-> yigi_dsn INTEGER DEFAULT 0 NOT NULL,
-> yi;
Query OK, 0 rows affected (0.348 sec)

MariaOB [kuliah]> CREATE TABLE matakuliah(
-> kode_mk INTEGER PRIMARY KEY,
-> nama_mk VARCHAR(15) NOT NULL,
-> sks INTEGER DEFAULT 0 NOT NULL,
-> );
Query OK, 0 rows affected (0.342 sec)
```

```
Command Prompt - mysql -u root -p
                                                                                                                                                                      ×
MariaOB [kuliah]> CREATE TABLE ruangkelas(

-> kode_rk VARCHAR(20) PRIMARY KEY,

-> nama_rk VARCHAR(45) NOT NULL,

-> letak_rk VARCHAR(45) NOT NULL
-> );
Query OK, 0 rows affected (0.321 sec)
MariaDB [kuliah]> CREATE TABLE mahasiswa_diajar_dosen(
     -> nimFK INTEGER REFERENCES mahasiswa(nim)
     -> ON DELETE CASCADE ON UPDATE CASCADE,
      -> nikFK INTEGER REFERENCES dosen(nik)
     -> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(nimFK, nikFK)
-> );
Query OK, 0 rows affected (0.642 sec)
MariaDB [kuliah]> CREATE TABLE mahasiswa_mengambil_matakuliah(
-> nimFK INTEGER REFERENCES mahasiswa(nim)
     -> ON DELETE CASCADE ON UPDATE CASCADE,
-> kode_mkFK INTEGER REFERENCES matakuliah(kode_mk)
     -> ON DELETE CASCADE ON UPDATE CASCADE,
     -> PRIMARY KEY(nimFK, kode_mkFK)
Query OK, 0 rows affected (0.802 sec)
```



