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NIM : L200180201

KELAS : H

PRAKTIKUM SISTEM BASIS DATA

MODUL 4

DATA DEFINITION LANGUAGE (DDL)

KEGIATAN MODUL (PERBANKAN)

```
Command Prompt - mysql -u root -p
                                                                                                                                                                ×
C:\Users\ASUS>cd..
C:\Users>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 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
test
   rows in set (0.003 sec)
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.003 sec)
```

```
Command Prompt-mysql -uroot-p

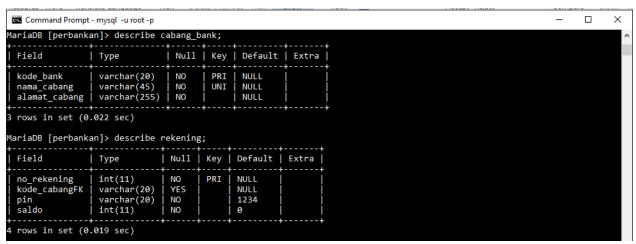
MariaDB [(none)]> CREATE TABLE nasabah(
-> id_nasabah INTEGER PRIMARY KEY,
-> nama_nasabah VARCHAR(45) NOT NULL,
-> alamat_nasabah VARCHAR(255) NOT NULL);
ERROR 1046 (3D000): No database selected

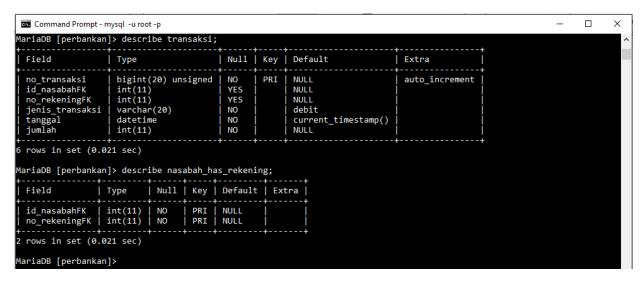
MariaDB [(none)]> use perbankan;
Database changed

MariaDB [perbankan]> CREATE TABLE nasabah(
-> -> id_nasabah INTEGER PRIMARY KEY,
-> -> nama_nasabah VARCHAR(45) NOT NULL,
-> -> ig
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

MariaDB [perbankan]> CREATE TABLE nasabah(
-> id_nasabah INTEGER PRIMARY KEY,
-> nama_nasabah VARCHAR(45) NOT NULL,
-> alamat_nasabah VARCHAR(255) NOT NULL,
-> alamat_nasabah VARCHAR(255) NOT NULL,
-> nama_cabah VARCHAR(255) NOT NULL,
-> alamat_nasabah VARCHAR(45) PRIMARY KEY,
-> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
-> alamat_cabang VARCHAR(45) UNIQUE NOT NULL,
-> alamat_cabang VARCHAR(45) UNIQUE NOT NULL,
-> alamat_cabang VARCHAR(255) NOT NULL,
-> alamat_cabang VA
```

```
Command Prompt - mysql -u root -p
                                                                                                                                                              X
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 (0.285 sec)
MariaDB [perbankan]> show tables;
  Tables_in_perbankan
  cabang_bank
  nasabah
nasabah_has_rekening
  rekening
transaksi
  rows in set (0.003 sec)
MariaDB [perbankan]> describe nasabah;
  Field
                        Type
                                              Null | Key | Default | Extra |
  id_nasabah
                          int(11)
                                               NO
                                                         PRT
                                                                 NULL
                          varchar(45)
  nama_nasabah
                                               NO
                                                                 NULL
  alamat_nasabah
                          varchar(255)
                                               NO
                                                                 NULL
  rows in set (0.044 sec)
```





TUGAS MODUL (KULIAH)

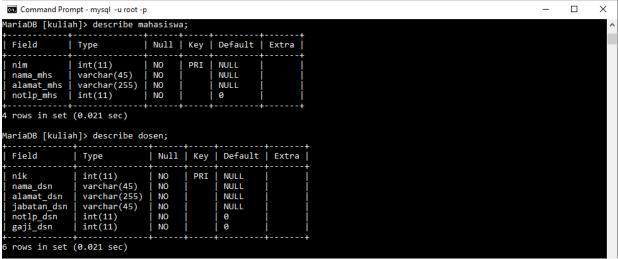
```
Command Prompt - mysql -u root -p
                                                                                                                                    П
                                                                                                                                           ×
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 45
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 (0.283 sec)
MariaDB [(none)]> create database kuliah;
Query OK, 1 row affected (0.004 sec)
MariaDB [(none)]> use kuliah;
Database changed
```

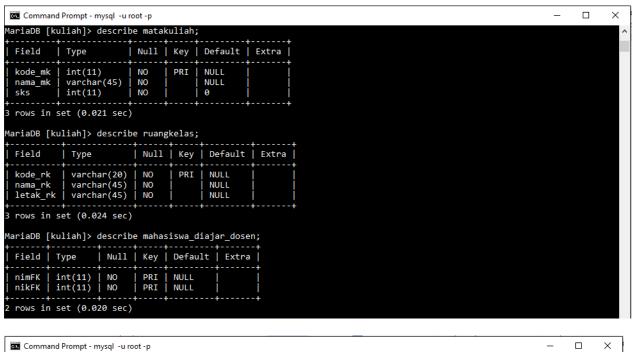
```
MariaDB [kuliah]> CREATE TABLE mahasiswa(
-> nim INTEGER PRIMARY KEY,
-> nama_mhs VARCHAR(45) NOT NULL,
-> alamat_mhs VARCHAR(255) NOT NULL,
-> notlp_mhs INTEGER DEFAULT 0 NOT NULL
-> );
Query OK, 0 rows affected (0.424 sec)

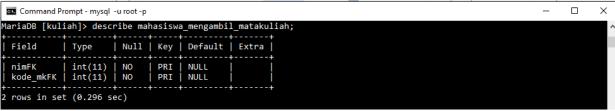
MariaDB [kuliah]> CREATE TABLE dosen(
-> nik INTEGER PRIMARY KEY,
-> nama_dsn VARCHAR(45) NOT NULL,
-> alamat_dsn VARCHAR(45) NOT NULL,
-> jabatan_dsn VARCHAR(45) NOT NULL,
-> paji_dsn INTEGER DEFAULT 0 NOT NULL,
-> notlp_dsn INTEGER DEFAULT 0 NOT NULL,
-> gaji_dsn INTEGER DEFAULT 0 NOT NULL,
-> paji_dsn INTEGER DEFAULT 0 NOT NULL
-> );
Query OK, 0 rows affected (0.348 sec)

MariaDB [kuliah]> CREATE TABLE matakuliah(
-> kode_mk INTEGER PRIMARY KEY,
-> nama_mk VARCHAR(45) NOT NULL,
-> sks INTEGER DEFAULT 0 NOT NULL,
-> sks INTEGER DEFAULT 0 NOT NULL,
-> );
Query OK, 0 rows affected (0.342 sec)
```

```
Command Prompt - mysql -u root -p
                                                                                                                                                                                           Х
MariaDB [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)
 Command Prompt - mysql -u root -p
                                                                                                                                                                                            X
MariaDB [kuliah]> CREATE TABLE dosen_mengampu_matakuliah(
-> nikFK INTEGER REFERENCES dosen(nik)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> kode_mkFK INTEGER REFERENCES matakuliah(kode_mk)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(nikFK, kode_mkFK)
-> );
Query OK, 0 rows affected (0.499 sec)
MariaDB [kuliah]> show tables;
   Tables_in_kuliah
    dosen
    dosen_mengampu_matakuliah
   mahasiswa
   mahasiswa_diajar_dosen
mahasiswa_mengambil_matakuliah
   matakuliah
   ruangkelas
   rows in set (0.003 sec)
 Command Prompt - mysql -u root -p
                                                                                                                                                                                        П
                                                                                                                                                                                                 ×
 NariaDB [kuliah]> describe mahasiswa;
                                              | Null | Key | Default | Extra |
   Field
                      Type
                        int(11)
varchar(45)
varchar(255)
   nim
                                                 NO
                                                            PRI
                                                                      NULL
   nama mhs
                                                 NO
                                                                      NULL
   alamat_mhs
                                                                      NULL
                                                 NO
   notlp_mhs
                        int(11)
   rows in set (0.021 sec)
```







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

MariaDB [kuliah]> describe dosen_mengampu_matakuliah;

| Field | Type | Null | Key | Default | Extra |

| nikFK | int(11) | NO | PRI | NULL | |
| kode_mkFK | int(11) | NO | PRI | NULL | |

2 rows in set (0.032 sec)
```