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Kelas: H

Praktikum Sistem Basis Data Modul ke 4

1. Praktikum

```
MariaDB [(none)]) create database perbankan;
Query OK, 1 row affected (0.013 sec)
MariaDB [(none)]) use perbankan;
Database changed
```

```
MariaDB [perbankan]> create table nasabah(
-> id_nasabah INTEGER PRIMARY KEY,
-> nama_nasabah UARCHAR(45) NOT NULL,
-> alamat_nasabah UARCHAR(255) NOT NULL,
-> );

Query OK, Ø rows affected (Ø.332 sec)

MariaDB [perbankan]> create table cabang_bank(
-> kode_cabang UARCHAR(20) PRIMARY KEY,
-> nama_cabang UARCHAR(25) UNIQUE NOT NULL,
-> alamat_cabang UARCHAR(25) NOT NULL,
-> );

Query OK, Ø rows affected (Ø.390 sec)

MariaDB [perbankan]> create table rekening(
-> no_rekening INTEGER PRIMARY KEY,
-> kode_cabangFK UARCHAR(20) REFERENCES cabang_bank(kode_cabang)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> pin UARCHAR(20) DEFAULT (1234' NOT NULL,
-> saldo INTEGER DEFAULT (1234' NOT NULL,
-> );

Query OK, Ø rows affected (Ø.305 sec)

MariaDB [perbankan]> create table transaksi(
-> no_transaksi SERIAL PRIMARY KEY,
-> 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,
-> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> jenis_transaksi UARCHAR(20) DEFAULT 'debit' NOT NULL,
-> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
-> );

Query OK, Ø rows affected (Ø.412 sec)
```

```
MariaDB [perbankan]> create table transaksi(
-> no_transaksi SERIAL PRIMARY KEY,
-> 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,
-> jenis_transaksi UARCHAR(20) DEFAULT 'debit' NOT NULL,
-> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
-> jumlah INTEGER NOT NULL CHECK (jumlah>=20000)
-> );
Query OK, 0 rows affected (0.412 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 (0.346 sec)
MariaDB [perbankan]> show tables;
 | Tables_in_perbankan
   cabang_bank
    nasabah
    nasabah_has_rekening
    rekening
    transaksi
 5 rows in set (0.002 sec)
MariaDB [perbankan]> describe nasabah;
                                           Type
 ! Field
                                                                             Null
                                                                                         1
                                                                                             Key | Default | Extra
                                                                             NO NO 0
                                                                                                           NULL
NULL
NULL
                                           int(11)
    id_nasabah
                                                                                              PRI
                                          varchar(45)
varchar(255)
    nama_nasabah
    alamat_nasabah !
    rows in set (0.039 sec)
```

2. Tugas

```
23
                                                                                                                                         _ 0
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.
                                                                                    All rights reserved.
C:\Users\fix>cd\
C:\>C:xampp\mysql\bin
'C:xampp\mysql\bin' is not recognized as an internal or external command,
operable program or batch file.
 C:\>cd C:xampp\mysgl\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 datakuliah;
Query OK, 1 row affected (0.072 sec)
MariaDB [(none)]> use datakuliah;
MariaDB [(none)]) use datakullan,
Database changed
MariaDB [datakuliah]> create table mahasiswa(
-> NIM_mhs VARCHAR(20) PRIMARY KEY,
-> nama_mhs VARCHAR(45),
-> alamat_mhs VARCHAR(255)
-> );
Query OK, Ø rows affected (0.617 sec)
MariaDB [datakuliah]> create table dosen(
-> id_dosen UARCHAR(20) PRIMARY KEY,
-> nama_dosen UARCHAR(45),
-> alamat_dosen UARCHAR(255),
-> status_dosen UARCHAR(20)
-> );
Query OK, O rows affected (0.595 sec)
 MariaDB [datakuliah]> create table matkul<br/>
-> id_matkul UARCHAR<20> PRIMARY KEY,<br/>
-> nama_matkul UARCHAR<45>
 -> );
Query OK, Ø rows affected (0.301 sec)
MariaDB [datakuliah]> create table rk(
-> nama_rk UARCHAR(20> PRIMARY KEY,
-> kapasitas_rk INTEGER(5>
-> );
-> );
Query OK, Ø rows affected (0.344 sec)
```

```
MariaDB [datakuliah]> create table mahasiswa_has_dosen(
-> NIM_mhsFk INTEGER REFERENCES mahasiswa(NIM_mhs)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> id_dosenFk INTEGER REFERENCES dosen(id_dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
             -> PRIMARY KEY (NIM_mhsFK, id_dosenFK)
 Query OK, 0 rows affected (0.369 sec)
MariaDB [datakuliah]> create table mahasiswa_has_rk(
-> NIM_mhsFK INTEGER REFERENCES mahasiswa(NIM_mhs)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> nama_rkFK INTEGER REFERENCES rk(nama_rk)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY (NIM_mhsFK, nama_rkFK)
Query OK, 0 rows affected (0.393 sec)
MariaDB [datakuliah]> create table mahasiswa_has_matkul<br/>
-> NIM_mhsFK INTEGER REFERENCES mahasiswa(NIM_mhs)<br/>
-> ON DELETE CASCADE ON UPDATE CASCADE,<br/>
-> id_matkulFK INTEGER REFERENCES matkul(id_matkul)<br/>
-> ON DELETE CASCADE ON UPDATE CASCADE,<br/>
-> PRIMARY KEY (NIM_mhsFK, id_matkulFK)
Query OK, 0 rows affected (0.336 sec)
MariaDB [datakuliah]> create table dosen_has_matkul(
-> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> id_matkulFK INTEGER REFERENCES matkul(id_matkul)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY (id_dosenFK, id_matkulFK)
Query OK, 0 rows affected (0.541 sec)
MariaDB [datakuliah]> create table dosen_has_rk(
-> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> nama_rkFK INTEGER REFERENCES rk(nama_rk)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PDIMORU VEU (id doserfy)
            -> nama_rkFK INTEGER REFERENCES rk(nam
-> ON DELETE CASCADE ON UPDATE CASCADE
-> PRIMARY KEY (id_dosenFK, nama_rkFK)
-> );
Query OK, 0 rows affected (0.587 sec)
MariaDB [datakuliah]> create table matkul_has_rk(
-> id_matkulFK INTEGER REFERENCES matkul(id_matkul)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> nama_rkFK INTEGER REFERENCES rk(nama_rk)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY (id_matkulFK, nama_rkFK)
Query OK, 0 rows affected (0.241 sec)
```

