PRACTICUM 4



By:

ALIF FAUZIA RAMA WAHYU K.

NIM: L200183177

INFORMATION TECHNOLOGY FACULTY OF COMMUNICATION AND INFORMATICS UNIVERSITY OF MUHAMMADIYAH SURAKARTA

1. Activity 1

```
Command Prompt - mysql -u root
:\xampp\mysql\bin>mysql -u root -p
Inter password: *****
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
our MariaDB connection id is 23
Gerver 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 (0.002 sec)
lariaDB [(none)]> create database perbankan;
uery OK, 1 row affected (0.036 sec)
MariaDB [(none)]> use perbankan
atabase changed
MariaDB [perbankan]> CREATE TABLE nasabah (
   -> id_nasabah INTEGER PRIMARY KEY,
   -> nama nasabah VARCHAR(45) NOT NULL,
   -> alamat_nasabah VARCHAR(255) NOT NULL);
Ouery OK, 0 rows affected (0.333 sec)
MariaDB [perbankan]> CREATE TABLE cabang_bank (
   -> kode_cabang VARCHAR(45) UNIQUE NOT NULL,
   -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
   -> alamat_cabang VARCHAR(255) NOT NULL);
uery OK, 0 rows affected (0.246 sec)
MariaDB [perbankan]> 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 (0.373 sec)
```

Picture 1.1. Creating new database and create the table

```
Command Potent Propell will wook

Workson () Eprobenikan) > CRAIT ENGLE transakti (

Workson () Eprobenikan) > CRAIT ENGLE transakti (

Workson () On DELETE SET NULL ON UPDATE CASCADE,

On DELETE SET NULL ON UPDATE CASCADE,

ON ON DELETE SET NULL ON UPDATE CASCADE,

Jens, transakti WAREMARGAD DEFAULT 'ebet' NOT NULL,

Jens, transakti WAREMARGAD DEFAULT 'ebet' NOT NULL,

WORKSON () On one affected (0.286 sec)

Workson () On one affected (0.286 sec)

Workson () On one affected (0.286 sec)

WAREMARGAN () URIQUE NOT NULL

EREK Rode, cabang WAREMARGAD () WITQUE NOT NULL

SET Node, cabang WAREMARGAD () WITQUE NOT NULL

EREK Rode, cabang WAREMARGAD () WITQUE NOT NULL

WEREK Rode, cabang WAREMARGAD () WAREMARGA
```

Picture 1.2. Creating the table and show the result of all table

-> ;	+	+	+	+	+
Field	Туре			Default	Extra
id_nasabah nama_nasabah alamat_nasabah	varchar(45)	NO	PRI	NULL NULL NULL	
	+	+	+		+
rows in set (0. ariaDB [perbanka -> ;		tbang_ba	+ nk		+
ariaDB [perbanka	n]> describe ca	+	+	Default	Extra

Picture 1.3. Show data inside of a table

2. Assignment 1

```
Select Command Prompt - mysql -u root
MariaDB [perbankan]> CREATE TABLE dosen (
   -> nip VARCHAR(20) PRIMARY KEY,
   -> nama_dosen VARCHAR(45) NOT NULL,
   -> alamat_dosen VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.195 sec)
MariaDB [perbankan]> CREATE TABLE mahasiswa (
   -> nim VARCHAR(20) PRIMARY KEY,
   -> dosen nipFK VARCHAR(20) REFERENCES dosen(dosen nip) ON DELETE CASCADE ON UPDATE CASCADE,
   -> nama_mhs VARCHAR(45) NOT NULL,
   -> alamat_mhs VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.270 sec)
MariaDB [perbankan]> CREATE TABLE mata_kuliah (
   -> kode_mk VARCHAR(20) PRIMARY KEY,
   -> nama_mk VARCHAR(45) NOT NULL,
   -> deskripsi_mk VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.259 sec)
MariaDB [perbankan]> CREATE TABLE ruang (
   -> kode_ruang VARCHAR(20) PRIMARY KEY);
Query OK, 0 rows affected (0.223 sec)
MariaDB [perbankan]> CREATE TABLE mata_kuliah_has_ruang (
   -> kode_mkFK VARCHAR(20) REFERENCES mata_kuliah(kode_mk) ON DELETE CASCADE ON UPDATE CASCADE,
   -> kode_ruangFK VARCHAR(20) REFERENCES ruang(kode_ruang) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.281 sec)
MariaDB [perbankan]> CREATE TABLE mahasiswa_has_mata_kuliah (
   -> nimFK VARCHAR(20) REFERENCES mahasiswa(nim) ON DELETE CASCADE ON UPDATE CASCADE,
   -> kode_mkFK VARCHAR(20) REFERENCES mata_kuliah(kode_mk) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.216 sec)
MariaDB [perbankan]> CREATE TABLE dosen_has_mata_kuliah (
   -> nipFK VARCHAR(20) REFERENCES dosen(nip) ON DELETE CASCADE ON UPDATE CASCADE,
   -> kode_mkFK VARCHAR(20) REFERENCES mata_kuliah(kode_mk) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.239 sec)
```

Picture 2.1. Creating the Table

```
Command Prompt - mysql -u root
MariaDB [perbankan]> show tables;
 Tables in perbankan
 cabang bank
 dosen
 dosen_has_mata_kuliah
 mahasiswa
 mahasiswa has mata kuliah
 mata_kuliah
 mata_kuliah_has_ruang
 nasabah
 nasabah has rekening
 rekening
 ruang
 transaksi
12 rows in set (0.001 sec)
MariaDB [perbankan]> describe cabang_bank;
 Field
               Type
                              | Null | Key | Default | Extra
                varchar(20)
 kode_cabang
                               NO
                                       PRI
                                             NULL
 nama_cabang
                 varchar(45)
                                NO
                                       UNI
                                             NULL
 alamat_cabang | varchar(255) | NO
                                           NULL
3 rows in set (0.016 sec)
MariaDB [perbankan]> describe dosen;
                             | Null | Key | Default | Extra
 Field
              Type
                varchar(20)
                              NO
                                     PRI
                                          NULL
                                           NULL
               varchar(45)
 nama dosen
                              NO
 alamat dosen | varchar(45) | NO
                                         NULL
3 rows in set (0.017 sec)
MariaDB [perbankan]> describe dosen_has_mata_kuliah;
                         | Null | Key | Default | Extra
 Field
            Type
 nipFK
            varchar(20)
                                        NULL
 kode mkFK | varchar(20) | YES
                                        NULL
2 rows in set (0.017 sec)
```

Picture 2.2. Showing the Tables and data inside of a Table