

Nama : Bayu Prayitno Aji

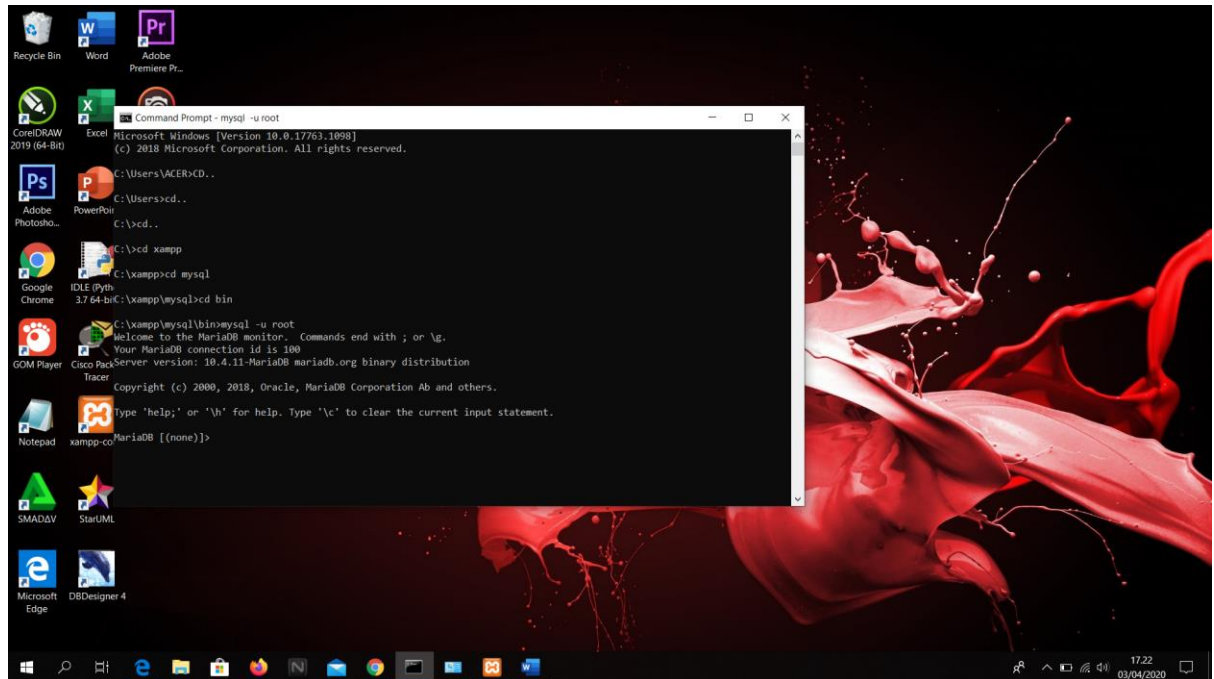
NIM : L200180054

Kelas : C

Modul 4

- Tugas

Implementasi hasil rancangan databashasil rancangan database yang menangani data kuliah di modul 2 ke dalam program MySQL!



Membuat table mahasiswa,dosen, dan mata_kuliah

```
Command Prompt - mysql -u root
Microsoft Windows [Version 10.0.17763.1098]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ACER>cd..
C:\Users>cd..
C:\>cd..
C:\>cd xampp
C:\xampp>cd mysql
C:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 100
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 kuliah;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> create table mahasiswa(
  -> nama_mahasiswa varchar(45) not null,
  -> nim_mahasiswa varchar(45) primary key,
  -> alamat_mahasiswa varchar(255) not null);
Query OK, 0 rows affected (0.013 sec)

MariaDB [kuliah]> create table dosen(
  -> nama_dosen varchar(45) not null,
  -> nip_dosen varchar(45) primary key,
  -> alamat_dosen varchar(255) not null);
Query OK, 0 rows affected (0.013 sec)

MariaDB [kuliah]> create table mata_kuliah(
  -> nama_matkul varchar(45) not null,
  -> kode_matkul varchar(45) primary key,
  -> dosen_pengampu varchar(255) not null);
Query OK, 0 rows affected (0.014 sec)

MariaDB [kuliah]>
```

Membuat table ruang_kelas dan mahasiswa_has_matakuliah

```
Command Prompt - mysql -u root

C:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 100
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 kuliah;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> create table mahasiswa(
  -> nama_mahasiswa varchar(45) not null,
  -> nim_mahasiswa varchar(45) primary key,
  -> alamat_mahasiswa varchar(255) not null);
Query OK, 0 rows affected (0.013 sec)

MariaDB [kuliah]> create table dosen(
  -> nama_dosen varchar(45) not null,
  -> nip_dosen varchar(45) primary key,
  -> alamat_dosen varchar(255) not null);
Query OK, 0 rows affected (0.013 sec)

MariaDB [kuliah]> create table mata_kuliah(
  -> nama_matkul varchar(45) not null,
  -> kode_matkul varchar(45) primary key,
  -> dosen_pengampu varchar(255) not null);
Query OK, 0 rows affected (0.014 sec)

MariaDB [kuliah]> create table ruang_kelas(
  -> nama_ruang varchar(45) not null,
  -> kode_ruang varchar(45) primary key,
  -> daya_tampung varchar(45) not null);
Query OK, 0 rows affected (0.051 sec)

MariaDB [kuliah]> create table mahasiswa_has_matakuliah(
  -> nim_mahasiswaFK varchar(45) references mahasiswa(nim_mahasiswa)
  -> on delete cascade on update cascade,
  -> kode_matkulFK varchar(45) references mata_kuliah(kode_matkul)
  -> on delete cascade on update cascade,
  -> primary key(nim_mahasiswaFK, kode_matkulFK));
Query OK, 0 rows affected (0.014 sec)

MariaDB [kuliah]> show
```

Menampilkan isi table kuliah

```
Command Prompt - mysql -u root

MariaDB [kuliah]> create table dosen(
  -> nama_dosen varchar(45) not null,
  -> nip_dosen varchar(45) primary key,
  -> alamat_dosen varchar(255) not null);
Query OK, 0 rows affected (0.013 sec)

MariaDB [kuliah]> create table mata_kuliah(
  -> nama_matkul varchar(45) not null,
  -> kode_matkul varchar(45) primary key,
  -> dosen_pengampu varchar(255) not null);
Query OK, 0 rows affected (0.014 sec)

MariaDB [kuliah]> create table ruang_kelas(
  -> nama_ruang varchar(45) not null,
  -> kode_ruang varchar(45) primary key,
  -> daya_tampung varchar(45) not null);
Query OK, 0 rows affected (0.021 sec)

MariaDB [kuliah]> create table mahasiswa_has_matakuliah(
  -> nim_mahasiswaFK varchar(45) references mahasiswa(nim_mahasiswa)
  -> on delete cascade on update cascade,
  -> kode_matkulFK varchar(45) references mata_kuliah(kode_matkul)
  -> on delete cascade on update cascade,
  -> primary key(nim_mahasiswaFK, kode_matkulFK));
Query OK, 0 rows affected (0.014 sec)

MariaDB [kuliah]> show tables;
+-----+
| Tables_in_kuliah |
+-----+
| dosen             |
| mahasiswa         |
| mahasiswa_has_matakuliah |
| mata_kuliah       |
| ruang_kelas       |
+-----+
5 rows in set (0.001 sec)

MariaDB [kuliah]> describe mahasiswa;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| nama_mahasiswa | varchar(45)   | NO   |     | NULL    |       |
| nim_mahasiswa  | varchar(45)   | NO   | PRI | NULL    |       |
| alamat_mahasiswa | varchar(255)  | NO   |     | NULL    |       |
+-----+
3 rows in set (0.010 sec)

MariaDB [kuliah]> describe dosen_
```

Menampilkan struktur table mahasiswa dan dosen

```
Command Prompt - mysql -u root

  -> dosen_pengampu varchar(255) not null);
Query OK, 0 rows affected (0.014 sec)

MariaDB [kuliah]> create table ruang_kelas(
  -> nama_ruang varchar(45) not null,
  -> kode_ruang varchar(45) primary key,
  -> daya_tampung varchar(45) not null);
Query OK, 0 rows affected (0.051 sec)

MariaDB [kuliah]> create table mahasiswa_has_matakuliah(
  -> nim_mahasiswaFK varchar(45) references mahasiswa(nim_mahasiswa)
  -> on delete cascade on update cascade,
  -> kode_matkulFK varchar(45) references mata_kuliah(kode_matkul)
  -> on delete cascade on update cascade,
  -> primary key(nim_mahasiswaFK, kode_matkulFK));
Query OK, 0 rows affected (0.014 sec)

MariaDB [kuliah]> show tables;
+-----+
| Tables_in_kuliah |
+-----+
| dosen             |
| mahasiswa         |
| mahasiswa_has_matakuliah |
| mata_kuliah       |
| ruang_kelas       |
+-----+
5 rows in set (0.001 sec)

MariaDB [kuliah]> describe mahasiswa;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| nama_mahasiswa | varchar(45)   | NO   |     | NULL    |       |
| nim_mahasiswa  | varchar(45)   | NO   | PRI | NULL    |       |
| alamat_mahasiswa | varchar(255)  | NO   |     | NULL    |       |
+-----+
3 rows in set (0.010 sec)

MariaDB [kuliah]> describe dosen;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| nama_dosen     | varchar(45)   | NO   |     | NULL    |       |
| nip_dosen      | varchar(45)   | NO   | PRI | NULL    |       |
| alamat_dosen   | varchar(255)  | NO   |     | NULL    |       |
+-----+
3 rows in set (0.010 sec)

MariaDB [kuliah]>
```