

NAMA : NIMAS WORO PANGESTI

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KELAS : F

TUGAS PRAKTIKUM BASIS DATA MODUL 4

Alat dan Bahan

1. Komputer dengan sistem operasi Windows XP.
2. Program aplikasi XAMPP dengan phpMyAdmin.
3. Modul praktikum Sistem Berkas dan Basis Data.

Langkah-Langkah Praktikum

1. Jalankan XAMPP Control Panel .
2. Jalankan server Apache dan Mysql.
3. Buka Command Prompt dan login sebagai root ke Mysql seperti di alangkah pada modul 1.
4. Buat database baru dengan perintah berikut ini.
Create database datakuliah;
5. Hubungkan ke dalam database yang telah dibuat dengan perintah berikut. Sehingga akan muncul pemberitahuan "database changed". Use datakuliah;
6. Membuat tabel mahasiswa dengan script berikut.
CREATE TABLE mahasiswa(
Nim_mhs INTEGER PRIMARY KEY,
nama_mhs VARCHAR(45) NOT NULL,
Alamat_mhs VARCHAR(255) NOT NULL,
Usia INTEGER NOT NULL);
7. Membuat tabel dosen dengan script berikut.
CREATE TABLE dosen(
id_dosen INTEGER PRIMARY KEY,
nama_dosen VARCHAR(45) NOT NULL,
Alamat_dosen VARCHAR(255) NOT NULL,
usia_dosen INTEGER NOT NULL);
8. Membuat tabel matkul dengan script berikut ini.
CREATE TABLE matkul(
kode_matkul VARCHAR(20) PRIMARY KEY,
nama_matkul VARCHAR(45) NOT NULL,
pengampu_matkul VARCHAR(45) NOT NULL,
jadwal_matkul DATETIME NOT NULL);
9. Membuat tabel ruang dengan script berikut.
CREATE TABLE ruang(
kode_ruang VARCHAR(20) PRIMARY KEY,
lokasi_ruang VARCHAR(20) NOT NULL);
10. Untuk mengecek hasil pembuatan database gunakan perintah show tables;

11. Kemudian untuk melihat struktur tiap tabel dapat dilakukan dengan perintah describe. Misalkan untuk melihat struktur tabel mahasiswa dapat dilakukan dengan perintah describe mahasiswa;

```
C:\Users\windows10>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 8
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 data kuliah;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'kuliah' at line 1
MariaDB [(none)]> create database datakuliah;
Query OK, 1 row affected (0.071 sec)

MariaDB [(none)]> use datakuliah;
Database changed
MariaDB [datakuliah]> CREATE TABLE mahasiswa(Nim_mhs INTEGER PRIMARY KEY,nama_mhs VARCHAR(45) NOT NULL,Alamat_mhs VARCHAR(255) NOT NULL,Usia INTEGER);
Query OK, 0 rows affected (0.427 sec)

MariaDB [datakuliah]> CREATE TABLE dosen(id_dosen INTEGER PRIMARY KEY,nama_dosen VARCHAR(45) NOT NULL,Alamat_dosen VARCHAR(255) NOT NULL,usia_dosen INTEGER NOT NULL);
Query OK, 0 rows affected (0.336 sec)

MariaDB [datakuliah]> CREATE TABLE matkul(kode_matkul VARCHAR(20) PRIMARY KEY,nama_matkul VARCHAR(45) NOT NULL,pengampu_matkul VARCHAR(45) NOT NULL,jadwal_matkul DATETIME NOT NULL);
Query OK, 0 rows affected (0.468 sec)

MariaDB [datakuliah]> CREATE TABLE ruang(kode_ruang VARCHAR(20) PRIMARY KEY,lokasi_ruang VARCHAR NOT NULL);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'NOT NULL)' at line 1
MariaDB [datakuliah]> CREATE TABLE ruang(kode_ruang VARCHAR(20) PRIMARY KEY,lokasi_ruang VARCHAR(20) NOT NULL);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'NUL)' at line 1
MariaDB [datakuliah]> CREATE TABLE ruang(kode_ruang VARCHAR(20) PRIMARY KEY,lokasi_ruang VARCHAR(20) NOT NULL);
Query OK, 0 rows affected (0.317 sec)

MariaDB [datakuliah]>
```

```
MariaDB [datakuliah]> show tables;
+-----+
| Tables_in_datakuliah |
+-----+
| dosen                 |
| mahasiswa             |
| matkul                |
| ruang                 |
+-----+
4 rows in set (0.139 sec)

MariaDB [datakuliah]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Nim_mhs | int(11) | NO | PRI | NULL | |
| nama_mhs | varchar(45) | NO | | NULL | |
| Alamat_mhs | varchar(255) | NO | | NULL | |
| Usia | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.094 sec)

MariaDB [datakuliah]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_dosen | int(11) | NO | PRI | NULL | |
| nama_dosen | varchar(45) | NO | | NULL | |
| Alamat_dosen | varchar(255) | NO | | NULL | |
| usia_dosen | int(11) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.027 sec)

MariaDB [datakuliah]> describe matkul;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_matkul | varchar(20) | NO | PRI | NULL | |
| nama_matkul | varchar(45) | NO | | NULL | |
| pengampu_matkul | varchar(45) | NO | | NULL | |
| jadwal_matkul | datetime | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.028 sec)
```

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

+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_dosen | int(11) | NO | PRI | NULL | |
| nama_dosen | varchar(45) | NO | | NULL | |
| alamat_dosen | varchar(255) | NO | | NULL | |
| usia_dosen | int(11) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.027 sec)

MariaDB [datakuliah]> describe matkul;

+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_matkul | varchar(20) | NO | PRI | NULL | |
| nama_matkul | varchar(45) | NO | | NULL | |
| pengampu_matkul | varchar(45) | NO | | NULL | |
| jadwal_matkul | datetime | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.028 sec)

MariaDB [datakuliah]> describe ruang;

+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_ruang | varchar(20) | NO | PRI | NULL | |
| lokasi_ruang | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.028 sec)

MariaDB [datakuliah]>
```

Full-screen Snap

Activate Windows
Go to Settings to activate Windows.

Type here to search

Desktop 10:43 22/03/2020