

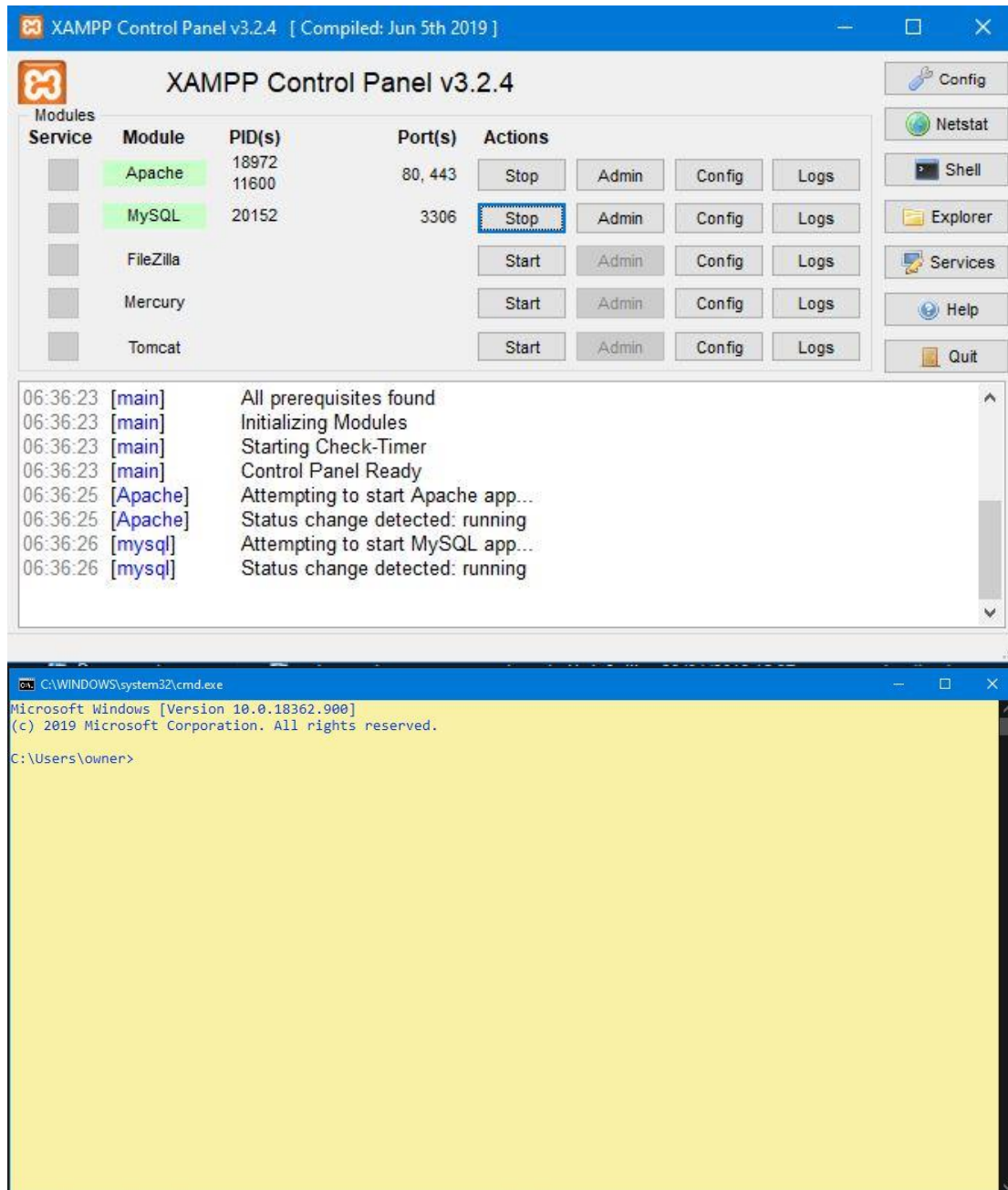
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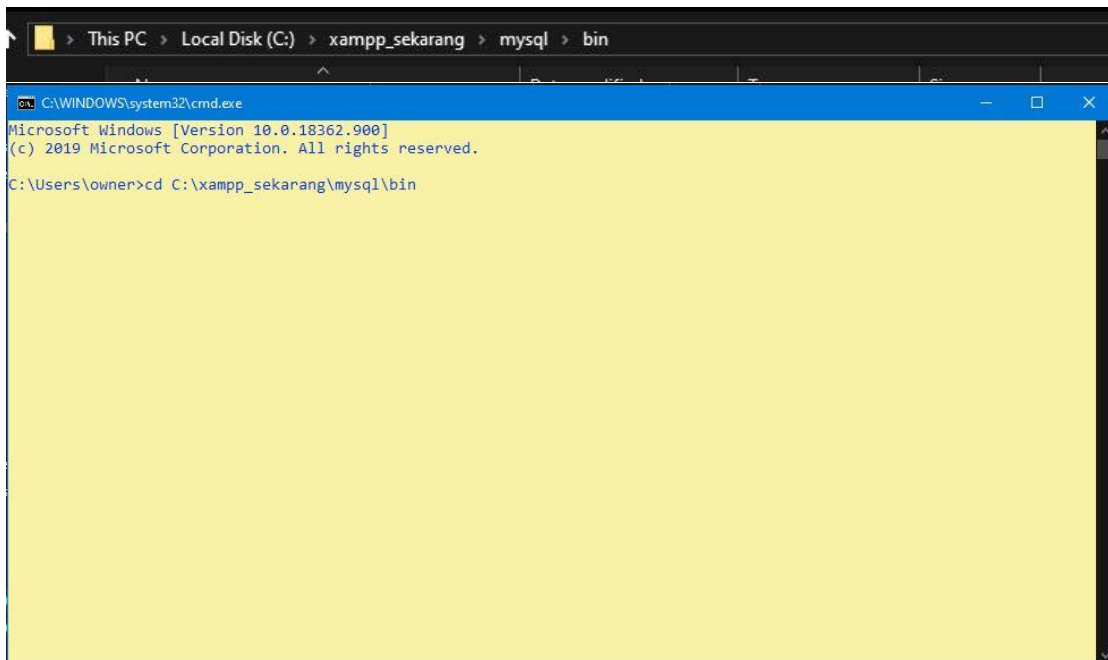
Kelas : D4 TI 1B

## PENJELASAN TUGAS

Langkah awal untuk membuat database yaitu membuka xampp dan cmd



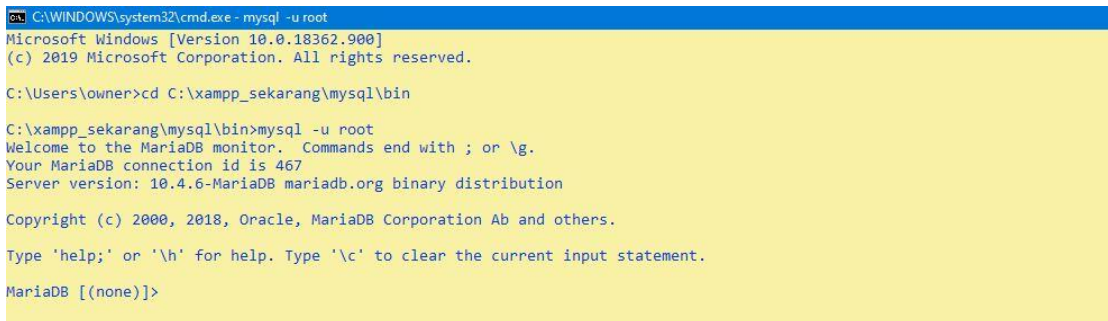
Langkah selanjutnya yaitu membuat direktori cmd menjadi direktori xampp dengan perintah cd (tempat xampp), seperti contoh berikut :



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\owner>cd C:\xampp_sekarang\mysql\bin
```

Setelah itu ketik perintah `mysql -u root` untuk mengakses mysql



```
C:\WINDOWS\system32\cmd.exe - mysql -u root
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\owner>cd C:\xampp_sekarang\mysql\bin

C:\xampp_sekarang\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 467
Server version: 10.4.6-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)]>
```

Buat database dengan perintah : create database namadatabase;

Kemudian ketik perintah : show databses; untuk melihat hasilnya

Dan perintah : use namadatabase; untuk menjadikannya sebagai tempat menyimpan tabel yang akan dibuat

```
MariaDB [(none)]> CREATE DATABASE tugasdatabase;  
Query OK, 1 row affected (0.002 sec)
```

```
MariaDB [(none)]> show databases;
```

```
+-----+  
| Database |  
+-----+  
| hotel    |  
| information_schema |  
| malasngoding_kios |  
| mysql    |  
| performance_schema |  
| phpmyadmin |  
| test     |  
| tugasdatabase |  
+-----+  
8 rows in set (0.001 sec)
```

```
MariaDB [(none)]> use tugasdatabase;  
Database changed  
MariaDB [tugasdatabase]>
```

Setelah itu kita membuat tabel dengan perintah :

Create table namatabel (

Data int (10) primary key, (menjadi primary key)

Contohdata varchar (20) not null,

FOREIGN KEY (namakolom) REFERENCES namatabel (namakolomtujuan) (nb : opsional jika ada)

);

Perlu diingat dalam pembuatan tabel ini haruslahurut berdasarkan urutan sebagai berikut :

1. Urutan pertama yaitu tabel yang tidak mempunyai foreign key dalam kolomnya
2. Tabel yang mempunyai foreign key tetapi primary keynya juga menjadi foreign key pada tabel lain
3. Tabel yang mempunyai foreign key tetapi primary keynya tidak menjadi foreign key pada tabel lain

Hal diatas berujuan agar tidak terjadi error pada saat pembuatan tabel

Berikut pembuatan tabel sesuai dengan urutannya :

Tabel programstudi :

```
MariaDB [(none)]> use tugasdatabase;  
Database changed  
MariaDB [tugasdatabase]> CREATE TABLE programstudi (  
->     kodeProgramStudi VARCHAR (10) NOT NULL primary key,  
->     namaProgramStudi VARCHAR (45) NOT NULL  
-> );  
Query OK, 0 rows affected (0.033 sec)
```

Tabel kategoriberita :

```
MariaDB [tugasdatabase]> CREATE TABLE kategoriberita (  
  ->   idKategori INT NOT NULL auto_increment primary key,  
  ->   namaKategori VARCHAR (45) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.074 sec)
```

Tabel dosen :

```
MariaDB [tugasdatabase]> CREATE TABLE dosen (  
  ->   nip int (20) NOT NULL auto_increment primary key,  
  ->   nama VARCHAR (45) NOT NULL,  
  ->   tempatLahir VARCHAR (30) NOT NULL,  
  ->   tanggalLahir DATE NOT NULL,  
  ->   agama VARCHAR (20) NOT NULL,  
  ->   jenisKelamin VARCHAR (4) NOT NULL,  
  ->   status VARCHAR (10) NOT NULL,  
  ->   pendidikanTerakhir VARCHAR (4) NOT NULL,  
  ->   namaUser VARCHAR (15) NOT NULL,  
  ->   sandiUser VARCHAR (45) NOT NULL,  
  ->   email VARCHAR (75) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.035 sec)
```

Tabel admin :

```
MariaDB [tugasdatabase]> CREATE TABLE admin (  
  ->   userName VARCHAR (15) NOT NULL primary key,  
  ->   password VARCHAR (50) NOT NULL,  
  ->   namaLengkap VARCHAR(100) NOT NULL,  
  ->   email VARCHAR(100) NOT NULL,  
  ->   level VARCHAR(50) NOT NULL  
  -> );  
Query OK, 0 rows affected (0.039 sec)
```

Tabel mahasiswa :

```
MariaDB [tugasdatabase]> CREATE TABLE mahasiswa (  
->   nim int (20) NOT NULL auto_increment primary key,  
->   nama VARCHAR (45) NOT NULL,  
->   tempatLahir DATE NOT NULL,  
->   tanggalLahir DATE NOT NULL,  
->   agama VARCHAR (10) NOT NULL,  
->   jenisKelamin VARCHAR (10) NOT NULL,  
->   kodeProgramStudi VARCHAR (10) NOT NULL,  
->   jenjang VARCHAR (10) NOT NULL,  
->   angkatan VARCHAR (5) NOT NULL,  
->   tanggalMasuk DATE NOT NULL,  
->   namaUser VARCHAR (15) NOT NULL,  
->   sandiUser VARCHAR (45) NOT NULL,  
->   email VARCHAR (75) NOT NULL,  
->   biaya INT (10),  
->   status VARCHAR (10) NOT NULL,  
-> FOREIGN KEY (kodeProgramStudi) REFERENCES programstudi (kodeProgramStudi)  
-> );  
Query OK, 0 rows affected (0.037 sec)
```

Tabel berita :

```
MariaDB [tugasdatabase]> CREATE TABLE berita (  
->   idBerita INT (5) NOT NULL auto_increment primary key,  
->   idKategori INT (5) NOT NULL,  
->   userName VARCHAR (50) NOT NULL,  
->   judul VARCHAR (100) NOT NULL,  
->   isiBerita TEXT,  
->   gambar VARCHAR (100) NOT NULL,  
->   hari VARCHAR (20) NOT NULL,  
->   tanggal DATE NOT NULL,  
->   jam TIME NOT NULL,  
-> counter INT (5),  
-> FOREIGN KEY (userName) REFERENCES admin (userName),  
-> FOREIGN KEY (idKategori) REFERENCES kategoriberita (idKategori)  
-> );  
Query OK, 0 rows affected (0.044 sec)
```

Tabel pendidikan :

```
MariaDB [tugasdatabase]> CREATE TABLE pendidikan (  
->   idPendidikan INT (4) NOT NULL auto_increment primary key,  
->   idReff int (20) NOT NULL,  
->   namaSekolah VARCHAR (50) NOT NULL,  
->   kota VARCHAR(30) NOT NULL,  
->   jenjang VARCHAR(10) NOT NULL,  
->   tahunLulus VARCHAR(4) NOT NULL,  
->   gelar VARCHAR(10) NOT NULL,  
->   nim int (20) NOT NULL,  
->   nip int (20) NOT NULL,  
-> FOREIGN KEY (nim) REFERENCES mahasiswa (nim),  
-> FOREIGN KEY (nip) REFERENCES dosen (nip)  
-> );  
Query OK, 0 rows affected (0.030 sec)
```



Tabel alumni :

```
MariaDB [tugasdatabase]> CREATE TABLE alumni (  
-> idPekerjaan INT (5) NOT NULL auto_increment primary key,  
-> nim int (20) NOT NULL,  
-> pekerjaan VARCHAR (45) NOT NULL,  
-> namaPerusahaan VARCHAR (100) NOT NULL,  
-> alamatPerusahaan TEXT NOT NULL,  
-> kota VARCHAR (45) NOT NULL,  
-> bagian VARCHAR (45) NOT NULL,  
-> jobdesk TEXT NOT NULL,  
-> jabatan VARCHAR (45) NOT NULL,  
-> tanggalMasuk VARCHAR (45) NOT NULL,  
-> FOREIGN KEY (nim) REFERENCES mahasiswa (nim)  
-> );  
Query OK, 0 rows affected (0.032 sec)
```

Tabel bimbingan :

```
MariaDB [tugasdatabase]> CREATE TABLE bimbingan (  
-> id INT (5) NOT NULL auto_increment primary key,  
-> kodeTugasAkhir VARCHAR (10) NOT NULL,  
-> nip int (20) NOT NULL,  
-> nim int (20) NOT NULL,  
-> tanggal DATE NOT NULL,  
-> konten DECIMAL,  
-> status VARCHAR (10) NOT NULL,  
-> namaFile VARCHAR (100) NOT NULL,  
-> ukuranFile VARCHAR (15) NOT NULL,  
-> direktori VARCHAR (45) NOT NULL,  
-> FOREIGN KEY (nip) REFERENCES dosen (nip),  
-> FOREIGN KEY (nim) REFERENCES mahasiswa (nim)  
-> );  
Query OK, 0 rows affected (0.031 sec)
```

Tabel alamat :

```
MariaDB [tugasdatabase]> CREATE TABLE alamat(  
-> idAlamat INT (5) NOT NULL auto_increment primary key,  
-> idReff VARCHAR (20) NOT NULL,  
-> alamat TEXT NOT NULL,  
-> kota VARCHAR (30) NOT NULL,  
-> propinsi VARCHAR (30) NOT NULL,  
-> kdpost VARCHAR (5) NOT NULL,  
-> noTelp VARCHAR (15),  
-> noHP VARCHAR (15) NOT NULL,  
-> email VARCHAR (75),  
-> nim int (20) NOT NULL,  
-> nip int (20) NOT NULL,  
-> FOREIGN KEY (nim) REFERENCES mahasiswa (nim),  
-> FOREIGN KEY (nip) REFERENCES dosen (nip)  
-> );  
Query OK, 0 rows affected (0.042 sec)
```

Tabel proposalta :

```
MariaDB [tugasdatabase]> CREATE TABLE proposalta (  
->     kodeTugasAkhir INT (5) NOT NULL auto_increment primary key,  
->     nim int (20) NOT NULL,  
->     nipPembimbing1 int (20) NOT NULL,  
->     nipPembimbing2 int (20) NOT NULL,  
->     judul VARCHAR (50) NOT NULL,  
->     tanggalPengajuan DATE NOT NULL,  
->     status VARCHAR (15) NOT NULL,  
->     fileProposal VARCHAR (45) NOT NULL,  
->     tanggalKeputusan DATE NOT NULL,  
->     userName VARCHAR (15) NOT NULL,  
->     penilai VARCHAR (15) NOT NULL,  
->     noIjasah VARCHAR (45) NOT NULL,  
->     FOREIGN KEY (nipPembimbing1) REFERENCES dosen (nip),  
->     FOREIGN KEY (nipPembimbing2) REFERENCES dosen (nip),  
->     FOREIGN KEY (nim) REFERENCES mahasiswa (nim),  
->     FOREIGN KEY (userName) REFERENCES admin (userName)  
-> );  
Query OK, 0 rows affected (0.029 sec)
```