Nama: Malik

Muhammad

NIM: L200180072

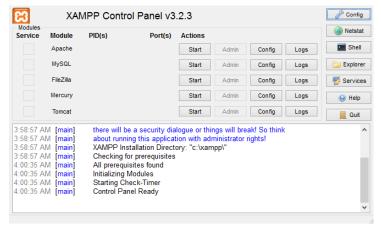
Kelas: C

MODUL 4

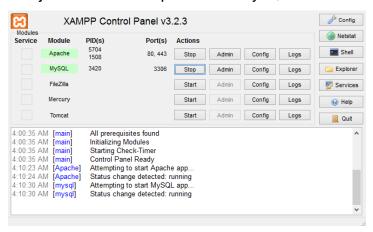
Tugas

Implementasikan hasil rancangan database yang menangani data kuliah pada tugas modul 2 ke dalam program mysql!

1. Menjalankan XAMPP ControlPanel



2. Menjalankan server Apache dan MySQL



3. Membuka command prompt dan login sebagai root ke MySQL seperti di langkah pada Modul1

4. Membuat database baru

5. Menghubungkan ke dalam database yang telahdibuat

6. Membuat tabelmahasiswa

7. Membuat tabeldosen

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

-> >;
Query OK, 0 rows affected (0.28 sec)

MariaDB [kuliah]> create table dosen(
-> id_dosen INTEGER PRIMARY KEY,
-> nama_dosen UARCHAR(45) NOT NULL,
-> alamat_dosen UARCHAR(255) NOT NULL,
-> ttl_dosen UARCHAR(50) NOT NULL,
-> jenis_kelamin_dosen UARCHAR(30) NOT NULL
-> >;
Query OK, 0 rows affected (0.74 sec)
```

8. Membuat tabelmata_kuliah

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

-> >;
Query OK, Ø rows affected (Ø.74 sec)

MariaDB [kuliah]> create table mata_kuliah(
-> kode_mataKuliah INTEGER PRIMARY KEY,
-> nama_mataKuliah UARCHAR(100) NOT NULL
-> >;
Query OK, Ø rows affected (Ø.28 sec)
```

9. Membuat tabelruang_kelas

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

-> );
Query OK, Ø rows affected (Ø.28 sec)

MariaDB [kuliah]> create table ruang_kelas(
-> kode_ruangKelas INTEGER PRIMARY KEY,
-> kapasitas_ruangKelas INTEGER NOT NULL
-> );
Query OK, Ø rows affected (Ø.30 sec)

MariaDB [kuliah]>
```

10. Membuat tabelmahasiswa_has_dosen

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

MariaDB [kuliah]> create table mahasiswa_has_dosen(
    -> id_mhsFK INTEGER REFERENCES mahasiswa(id_mhs)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(id_mhsFK, id_dosenFK)
    -> );
Query OK, Ø rows affected (Ø.29 sec)
```

11. Membuat tabelmahasiswa_has_mata_kuliah

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

->>;
Query OK, Ø rows affected (0.45 sec)

MariaDB [kuliah]> create table mahasiswa_has_mata_kuliah(
-> id_mhsFK INTEGER REFERENCES mahasiswa(id_mhs)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> kode_mataKuliahFK INTEGER REFERENCES mata_kuliah(kode_mataKuliah)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_mhsFK, kode_mataKuliahFK)
-> >;
Query OK, Ø rows affected (0.35 sec)
```

12. Membuat tabeldosen_has_mata_kuliah

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

-> >;
Query OK, Ø rows affected (0.29 sec)

MariaDB [kuliah]> create table dosen_has_mata_kuliah(
-> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> kode_mataKuliahFK INTEGER REFERENCES mata_kuliah(kode_mataKuliah)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_dosenFK, kode_mataKuliahFK)
-> >;
Query OK, Ø rows affected (0.26 sec)
```

13. Membuat tabelmata_kuliah_has_ruang_kelas

14. Membuat tabeldosen_has_ruang_kelas

```
Query OK, 0 rows affected (0.35 sec)

MariaDB [kuliah]> create table dosen_has_ruang_kelas(
    -> id_dosenFK INTEGER REFERENCES dosen(id_dosen)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> kode_ruangKelasFK INTEGER REFERENCES ruang_kelas(kode_ruangKelas)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> kode_ruangKelasFK INTEGER REFERENCES ruang_kelas(kode_ruangKelas)
    -> PRIMARY KEY(id_dosenFK, kode_ruangKelasFK)
    -> ;

Query OK, 0 rows affected (0.54 sec)
```

15. Mengecek hasil pembuatandatabase

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

Query OK, 0 rows affected (0.54 sec)

MariaDB [kuliah]> show tables;

I Tables_in_kuliah

dosen

dosen_has_mata_kuliah

dosen_has_ruang_kelas

mahasiswa

mahasiswa

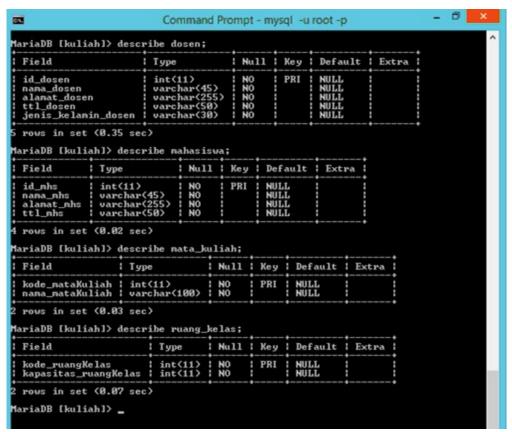
mahasiswa_has_dosen

mahasiswa_has_mata_kuliah

mata_kuliah

mata_kuliah
```

16. Melihat struktur tiaptabel



Field	Гуре	! Null	Key	Default	Extra
id_dosenFK kode_mataKuliahFK	int(11) int(11)	NO NO	PRI PRI	NULL NULL	
rows in set <0.39 :	sec>				•
Field	Туре	Null	Key	Default	Extra
id_dosenFK kode_ruangKelasFK	int(11) int(11)	NO NO	PRI PRI	NULL	
rows in set (0.01	sec)		•	•	•
ariaDB [kuliah]> de:	scribe mah	asiswa_	has_do:	sen;	_
Field Type	: Null	Key	Defau	lt Extra	
id_mhsFK int(1 id_dosenFK int(1	1) N0 1) N0	PRI :	NULL		
2 rows in set (0.03 : MariaDB [kuliah]> de: ERROR 1146 (42502): MariaDB [kuliah]> de:	scribe mah Table 'kul	iah.nah	asiswa.	mata_kuli	ah' does
Field	Туре	Null	Key	Default	Extra
id_mhsFK kode_mataKuliahFK	int(11)	NO NO	PRI PRI	NULL	
2 rows in set (0.06	sec>				
	scribe mat	a_kulia	h_has_	ruang_kela	s;
dariaDB [kuliah]> de:			. Van	Default	Extra
	Туре	Null	hey		
Field	int(11)	: NO	PRI	NULL NULL	
kode_mataKuliahFK	int(11) int(11)	: NO	PRI	NULL	