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Kelas: C

PRAKTIKUM SISTEM BASIS DATA

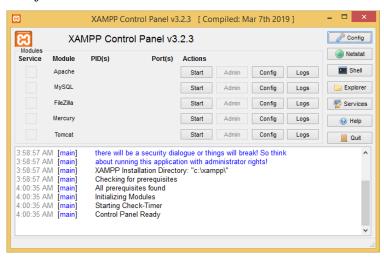
MODUL 4

DATA DEFINITION LANGUAGE (DDL)

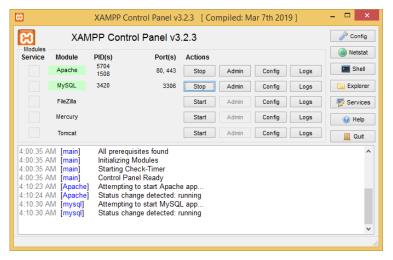
Tugas

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

1. Menjalankan XAMPP Control Panel



2. Menjalankan server Apache dan MySQL



3. Membuka command prompt dan login sebagai root ke MySQL seperti di langkah pada Modul 1

4. Membuat database baru

5. Menghubungkan ke dalam database yang telah dibuat

6. Membuat tabel mahasiswa

7. Membuat tabel dosen

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

-> );
Query OK, Ø 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, Ø rows affected (0.74 sec)
```

8. Membuat tabel mata_kuliah

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

-> >;
Query OK, Ø rows affected (0.74 sec)

MariaDB [kuliah]> create table mata_kuliah(
-> kode_mataKuliah INTEGER PRIMARY KEY,
-> nama_mataKuliah UARCHAR(100) NOT NULL
-> >;
Query OK, Ø rows affected (0.28 sec)
```

9. Membuat tabel ruang_kelas

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

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

MariaDB [kuliah]> create table ruang_kelas(
-> kode_ruangKelas INTEGER PRIMARY KEY,
-> kapasitas_ruangKelas INTEGER NOT NULL
-> );
Query OK, Ø rows affected (0.30 sec)

MariaDB [kuliah]>
```

10. Membuat tabel mahasiswa 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 tabel mahasiswa_has_mata_kuliah

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

-> >;
Query OK, O 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, O rows affected (0.35 sec)
```

12. Membuat tabel dosen 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 tabel mata_kuliah_has_ruang_kelas

14. Membuat tabel dosen_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,
    -> PRIMARY KEY(id_dosenFK, kode_ruangKelasFK)
    -> ;

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

15. Mengecek hasil pembuatan database

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

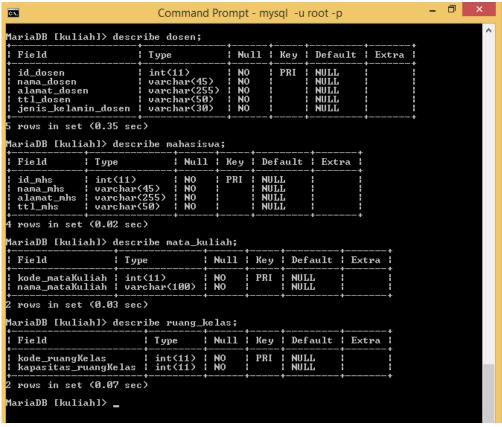
Query OK, O rows affected (0.54 sec)

MariaDB [kuliah]> show tables;

Tables_in_kuliah

dosen
dosen_has_mata_kuliah
dosen_has_ruang_kelas
mahasiswa
mata_kuliah
```

16. Melihat struktur tiap tabel



[ariaDB [kuliah]> describe dosen_has_mata_kuliah;					
Field	Туре	Nu11	Кеу	Default	Extra
id_dosenFK kode_mataKuliahFK	int(11) int(11)		PRI PRI		
rows in set (0.39 sec)					
ariaDB [kuliah]> describe dosen_has_ruang_kelas;					
Field	Туре	Nu11	Кеу	Default	Extra
id_dosenFK kode_ruangKelasFK	int(11) int(11)		PRI PRI		
rows in set (0.01 sec)					
ariaDB [kuliah]> describe mahasiswa_has_dosen;					
Field Type	Null	Key I	Def au	lt Extra	
id_mhsFK int(1: id_dosenFK int(1:		PRI PRI			
rows in set (0.03 sec)					
tariaDB [kuliah]> describe mahasiswa_mata_kuliah; ERROR 1146 (42802): Table 'kuliah.mahasiswa_mata_kuliah' doesn tariaDB [kuliah]> describe mahasiswa_has_mata_kuliah;					
Field	Туре	Nu11	Кеу	Default	Extra
id_mhsFK kode_mataKuliahFK	int(11) int(11)		PRI PRI		
rows in set (0.06 sec)					
MariaDB [kuliah]> de:	scribe mat	a_kulial	h_has_ı	uang_kela:	s;
Field	Туре	Nu11	Key	Default	Extra
kode_mataKuliahFK kode_ruangKelasFK			PRI PRI		 !
2 rows in set (0.01 sec)					
MariaDB [kuliah]> _					