Nama : Afiq Tri Nugraha

NIM   : L200180080

Kelas : C

PRAKTIKUM SISTEM BASIS DATA

MODUL 4

Tugas
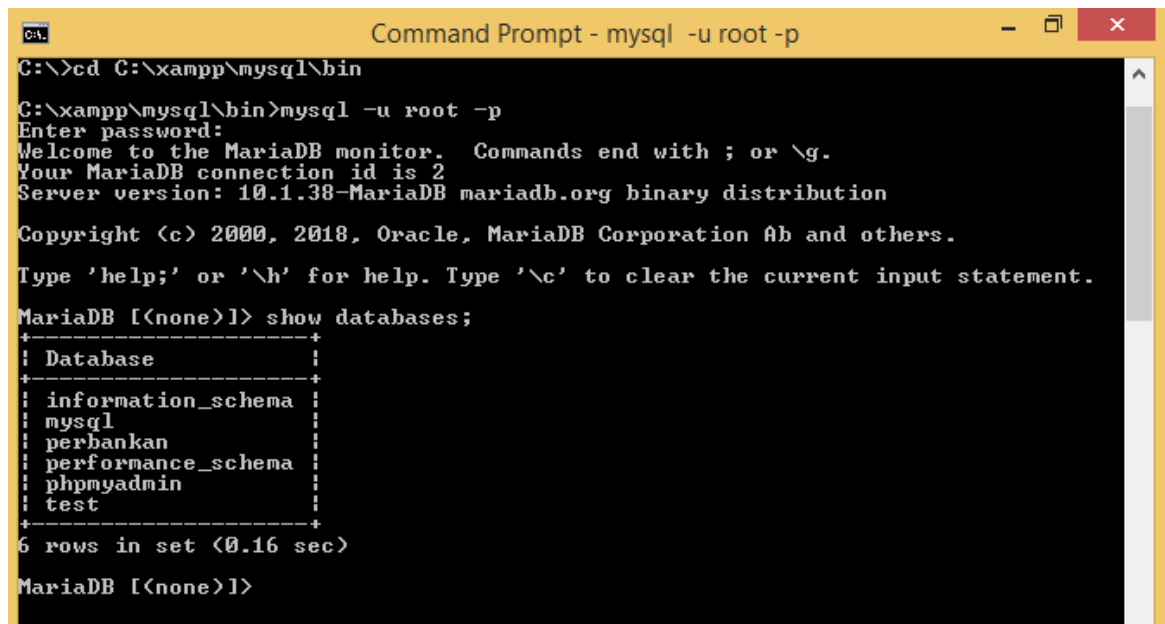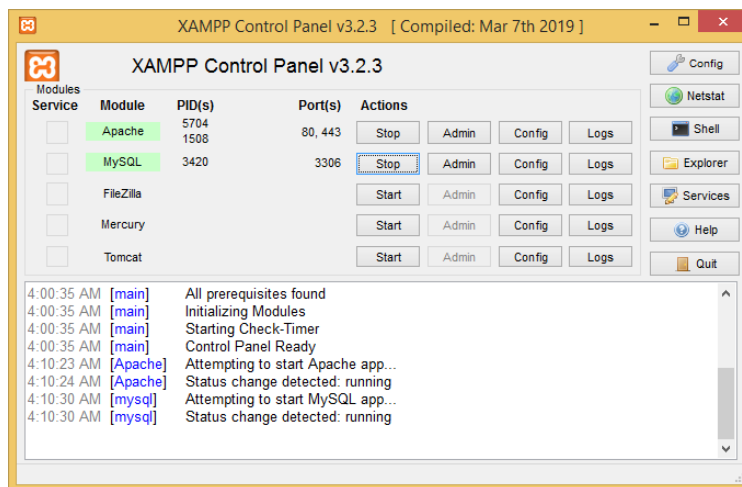
```
+----------------------+
6 rows in set (0.16 sec)

MariaDB [(none)]> create database kuliah;
Query OK, 1 row affected (0.05 sec)

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

```
MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> create table mahasiswa(
    -> id_mhs INTEGER PRIMARY KEY,
    -> nama_mhs VARCHAR(45) NOT NULL,
    -> alamat_mhs VARCHAR(255) NOT NULL,
    -> ttl_mhs VARCHAR(50) NOT NULL
    -> );
Query OK, 0 rows affected (0.28 sec)
```

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

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

```
    -> );
Query OK, 0 rows affected (0.74 sec)

MariaDB [kuliah]> create table mata_kuliah(
    -> kode_mataKuliah INTEGER PRIMARY KEY,
    -> nama_mataKuliah VARCHAR(100) NOT NULL
    -> );
Query OK, 0 rows affected (0.28 sec)
```

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

MariaDB [kuliah]> create table ruang_kelas(
    -> kode_ruangKelas INTEGER PRIMARY KEY,
    -> kapasitas_ruangKelas INTEGER NOT NULL
    -> );
Query OK, 0 rows affected (0.30 sec)

MariaDB [kuliah]>
```

```
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, 0 rows affected (0.29 sec)
```

```
        -> );
Query OK, 0 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, 0 rows affected (0.35 sec)
```

```
        -> );
Query OK, 0 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, 0 rows affected (0.26 sec)
```

```
7 rows in set (0.34 sec)

MariaDB [kuliah]> create table mata_kuliah_has_ruang_kelas(
    -> kode_mataKuliahFK INTEGER REFERENCES mata_kuliah(kode_mataKuliah)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> kode_ruangKelasFK INTEGER REFERENCES ruang_kelas(kode_ruangKelas)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(kode_mataKuliahFK, kode_ruangKelasFK)
    -> );
Query OK, 0 rows affected (0.35 sec)
```

```
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)
```

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

MariaDB [kuliah]> show tables;
+-----------------------------+
| Tables_in_kuliah            |
+-----------------------------+
| dosen                       |
| dosen_has_mata_kuliah       |
| dosen_has_ruang_kelas       |
| mahasiswa                   |
| mahasiswa_has_dosen         |
| mahasiswa_has_mata_kuliah   |
| mata_kuliah                 |
| mata_kuliah_has_ruang_kelas |
| ruang_kelas                 |
+-----------------------------+
9 rows in set (0.00 sec)

MariaDB [kuliah]>
```

```
Command Prompt - mysql -u root -p                              – 🗗 ✕

MariaDB [kuliah]> 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    |       |
| ttl_dosen           | varchar(50)  | NO   |     | NULL    |       |
| jenis_kelamin_dosen | varchar(30)  | NO   |     | NULL    |       |
+---------------------+--------------+------+-----+---------+-------+
5 rows in set (0.35 sec)

MariaDB [kuliah]> describe mahasiswa;
+------------+--------------+------+-----+---------+-------+
| Field      | Type         | Null | Key | Default | Extra |
+------------+--------------+------+-----+---------+-------+
| id_mhs     | int(11)      | NO   | PRI | NULL    |       |
| nama_mhs   | varchar(45)  | NO   |     | NULL    |       |
| alamat_mhs | varchar(255) | NO   |     | NULL    |       |
| ttl_mhs    | varchar(50)  | NO   |     | NULL    |       |
+------------+--------------+------+-----+---------+-------+
4 rows in set (0.02 sec)

MariaDB [kuliah]> describe mata_kuliah;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| kode_mataKuliah| int(11)      | NO   | PRI | NULL    |       |
| nama_mataKuliah| varchar(100) | NO   |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
2 rows in set (0.03 sec)

MariaDB [kuliah]> describe ruang_kelas;
+--------------------+---------+------+-----+---------+-------+
| Field              | Type    | Null | Key | Default | Extra |
+--------------------+---------+------+-----+---------+-------+
| kode_ruangKelas    | int(11) | NO   | PRI | NULL    |       |
| kapasitas_ruangKelas| int(11)| NO   |     | NULL    |       |
+--------------------+---------+------+-----+---------+-------+
2 rows in set (0.07 sec)

MariaDB [kuliah]>
```

```
MariaDB [kuliah]> describe dosen_has_mata_kuliah;
+------------------+---------+------+-----+---------+-------+
| Field            | Type    | Null | Key | Default | Extra |
+------------------+---------+------+-----+---------+-------+
| id_dosenFK       | int(11) | NO   | PRI | NULL    |       |
| kode_mataKuliahFK| int(11) | NO   | PRI | NULL    |       |
+------------------+---------+------+-----+---------+-------+
2 rows in set (0.39 sec)

MariaDB [kuliah]> describe dosen_has_ruang_kelas;
+------------------+---------+------+-----+---------+-------+
| Field            | Type    | Null | Key | Default | Extra |
+------------------+---------+------+-----+---------+-------+
| id_dosenFK       | int(11) | NO   | PRI | NULL    |       |
| kode_ruangKelasFK| int(11) | NO   | PRI | NULL    |       |
+------------------+---------+------+-----+---------+-------+
2 rows in set (0.01 sec)

MariaDB [kuliah]> describe mahasiswa_has_dosen;
+------------+---------+------+-----+---------+-------+
| Field      | Type    | Null | Key | Default | Extra |
+------------+---------+------+-----+---------+-------+
| id_mhsFK   | int(11) | NO   | PRI | NULL    |       |
| id_dosenFK | int(11) | NO   | PRI | NULL    |       |
+------------+---------+------+-----+---------+-------+
2 rows in set (0.03 sec)

MariaDB [kuliah]> describe mahasiswa_mata_kuliah;
ERROR 1146 (42S02): Table 'kuliah.mahasiswa_mata_kuliah' doesn't exist
MariaDB [kuliah]> describe mahasiswa_has_mata_kuliah;
+------------------+---------+------+-----+---------+-------+
| Field            | Type    | Null | Key | Default | Extra |
+------------------+---------+------+-----+---------+-------+
| id_mhsFK         | int(11) | NO   | PRI | NULL    |       |
| kode_mataKuliahFK| int(11) | NO   | PRI | NULL    |       |
+------------------+---------+------+-----+---------+-------+
2 rows in set (0.06 sec)

MariaDB [kuliah]> describe mata_kuliah_has_ruang_kelas;
+------------------+---------+------+-----+---------+-------+
| Field            | Type    | Null | Key | Default | Extra |
+------------------+---------+------+-----+---------+-------+
| kode_mataKuliahFK| int(11) | NO   | PRI | NULL    |       |
| kode_ruangKelasFK| int(11) | NO   | PRI | NULL    |       |
+------------------+---------+------+-----+---------+-------+
2 rows in set (0.01 sec)

MariaDB [kuliah]>
```