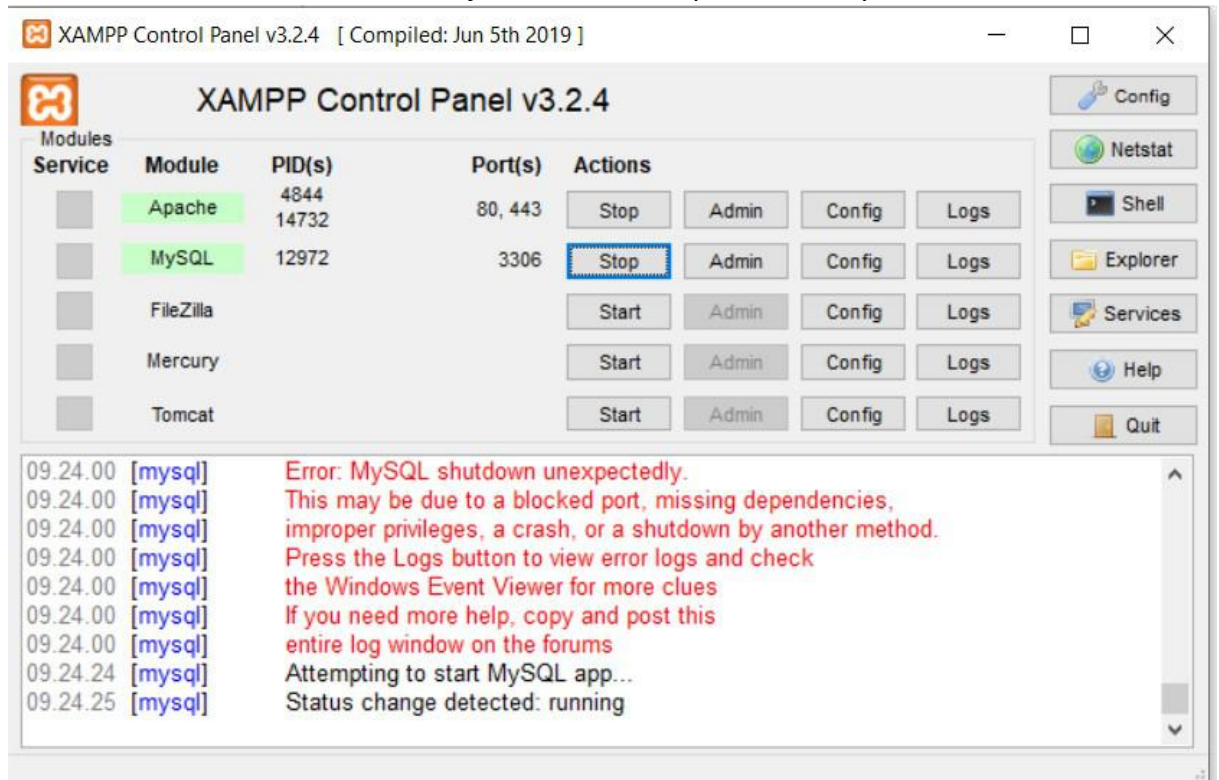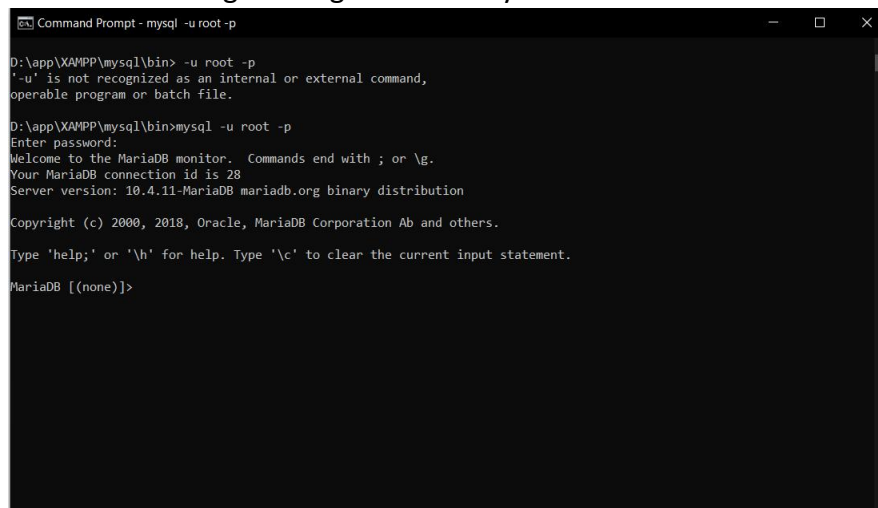Nama   : Ghani Prasetia
NIM   : L200180185

MODUL 4

1. Jalankan XAMPP Control Panel dan jalankan server Apache dan MySQL

2. Buka cmd dan login sebagai root ke MySQL

3. Buat database baru dan membuat table nasabah

4. Mebuat table cabang_bank

5. Membuat table rekening dan table transaksi

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

MariaDB [perbankan]> CREATE TABLE rekening(
    -> no_rekening INTEGER PRIMARY KEY,
    -> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> pin VARCHAR(20) DEFAULT '1234' NOT NULL,
    -> saldo INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.050 sec)

MariaDB [perbankan]> CREATE TABLE transaksi(
    -> no_transaksi INTEGER PRIMARY KEY,
    -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)
    -> ON DELETE SET NULL ON UPDATE CASCADE,
    -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)
    -> ON DELETE SET NULL ON UPDATE CASCADE,
    -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,
    -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    -> jumlah INTEGER NOT NULL CHECK (jumlah>=20000));
Query OK, 0 rows affected (0.064 sec)

MariaDB [perbankan]> show tables;
+---------------------+
| Tables_in_perbankan |
+---------------------+
| cabang_bank         |
| nasabah             |
| rekening            |
| transaksi           |
+---------------------+
4 rows in set (0.001 sec)
```

6. Membuat table nasabah_has_rekening

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

MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(
    -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)
    -> ON DELETE CASCADE ON UPDATE CASCADE,
    -> PRIMARY KEY(id_nasabahFK, no_rekeningFK));
Query OK, 0 rows affected (1.821 sec)

MariaDB [perbankan]> show tables;
+----------------------+
| Tables_in_perbankan  |
+----------------------+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+----------------------+
5 rows in set (0.001 sec)

MariaDB [perbankan]>
```

7. Melihat struktur tiap table

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

MariaDB [perbankan]> describe nasabah;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| id_nasabah     | int(11)      | NO   | PRI | NULL    |       |
| nama_nasabah   | varchar(45)  | NO   |     | NULL    |       |
| alamat_nasabah | varchar(255) | NO   |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
3 rows in set (0.008 sec)

MariaDB [perbankan]> describe cabang_bank;
+---------------+--------------+------+-----+---------+-------+
| Field         | Type         | Null | Key | Default | Extra |
+---------------+--------------+------+-----+---------+-------+
| kode_cabang   | varchar(20)  | NO   | PRI | NULL    |       |
| nama_cabang   | varchar(45)  | NO   | UNI | NULL    |       |
| alamat_cabang | varchar(255) | NO   |     | NULL    |       |
+---------------+--------------+------+-----+---------+-------+
3 rows in set (0.005 sec)

MariaDB [perbankan]> describe rekening;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| no_rekening  | int(11)     | NO   | PRI | NULL    |       |
| kode_cabangFK| varchar(20) | YES  |     | NULL    |       |
| pin          | varchar(20) | NO   |     | 1234    |       |
| saldo        | int(11)     | NO   |     | 0       |       |
+--------------+-------------+------+-----+---------+-------+
```

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

MariaDB [perbankan]> describe transaksi;
+----------------+-------------+------+-----+-------------------+-------+
| Field          | Type        | Null | Key | Default           | Extra |
+----------------+-------------+------+-----+-------------------+-------+
| no_transaksi   | int(11)     | NO   | PRI | NULL              |       |
| id_nasabahFK   | int(11)     | YES  |     | NULL              |       |
| no_rekeningFK  | int(11)     | YES  |     | NULL              |       |
| jenis_transaksi| varchar(20) | NO   |     | debit             |       |
| tanggal        | datetime    | NO   |     | current_timestamp()|      |
| jumlah         | int(11)     | NO   |     | NULL              |       |
+----------------+-------------+------+-----+-------------------+-------+
6 rows in set (0.005 sec)

MariaDB [perbankan]> describe nasabah_has_rekening;
+---------------+---------+------+-----+---------+-------+
| Field         | Type    | Null | Key | Default | Extra |
+---------------+---------+------+-----+---------+-------+
| id_nasabahFK  | int(11) | NO   | PRI | NULL    |       |
| no_rekeningFK | int(11) | NO   | PRI | NULL    |       |
+---------------+---------+------+-----+---------+-------+
2 rows in set (0.005 sec)
```