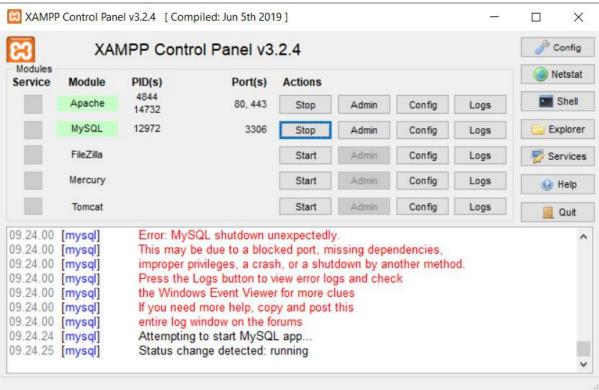
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MODUL 4

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



2. Buka cmd dan login sebagai root ke MySQL

```
Command Prompt - mysql - uroot - p

'-u' is not recognized as an internal or external command,
operable program or batch file.

D:\app\XAMPP\mysql\bin>mysql - uroot - p
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 28
Server version: 10.4.11-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)]>
```

3. Buat database baru dan membuat table nasabah

```
Command Prompt - mysql -u root -p
D:\app\XAMPP\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g. Your MariaDB connection id is 28
Server version: 10.4.11-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)]> create database perbankan;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> CREATE TABLE nasabah(
    -> id_nasabah INTEGER PRIMARY KEY,
    -> nama_nasabah VARCHAR(45) NOT NULL,
-> alamat_nasabah VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (1.755 sec)
MariaDB [perbankan]> show tables;
Tables_in_perbankan
1 row in set (0.001 sec)
```

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_has_rekening
 rekening
 transaksi
5 rows in set (0.001 sec)
MariaDB [perbankan]>
```

7. Melihat struktur tiap table

2 rows in set (0.005 sec)

/lelihat struktur	tiap table								
Command Pron	npt - mysql	-u root	t-p						
riaDB [perban	kan]> des	scribe	nasa	bah;					
Field	Type		-	Null	Ke	y [Defaul	t Ex	ctra
id_nasabah int(11) nama_nasabah varchar(45 alamat_nasabah varchar(25				PR	į į	NULL NULL NULL	+		
rows in set (0.008 sed	:)	+-		+	+-		+	
riaDB [perban	kan]> des	scribe	caba	ng_ba	ank;				
Field	-+ Type		+ N	ull	Key	/ De	efault	Ext	ra
kode_cabang nama_cabang alamat_cabang	yarchar(45)		l N	NO NO NO		i NI	NULL NULL NULL		
rows in set (0.005 sed	· · · · · · · · · · · · · · · · · · ·	+		+	-+		-+	
ariaDB [perban	kan]> des	scribe	reke	ning					
Field	Type		-+ Nu	11	Key	De	fault	Extr	`a
no_rekening kode_cabangFK pin saldo	kode_cabangFK varchar(20) pin varchar(20)				PRI	NUI	NULL NULL 1234 0		
Command Promp	t - mysql -u r	oot -p	-+	+		+		+	
MariaDB [perbanka	n]> descri	ibe tra	nsaksi	÷					
Field	Type	+		Key	-+ De	fault	ault		+ E:
no_transaksi id_nasabahFK no_rekeningFK jenis_transaksi tanggal jumlah	int(11) int(11) varchar datetin	int(11)		+ PRI 	NU NU de cu	NULL NULL NULL debit current_ti		amp()	+
rows in set (0.	005 sec)	+		+	-+				1 = = =
MariaDB [perbanka	n]> descri	ibe nas	abah_h	as_re	kenin	g;			
Field	Туре	Type Null		Def	ault	lt Extra			
id_nasabahFK no_rekeningFK	int(11) int(11)			NUL NUL					