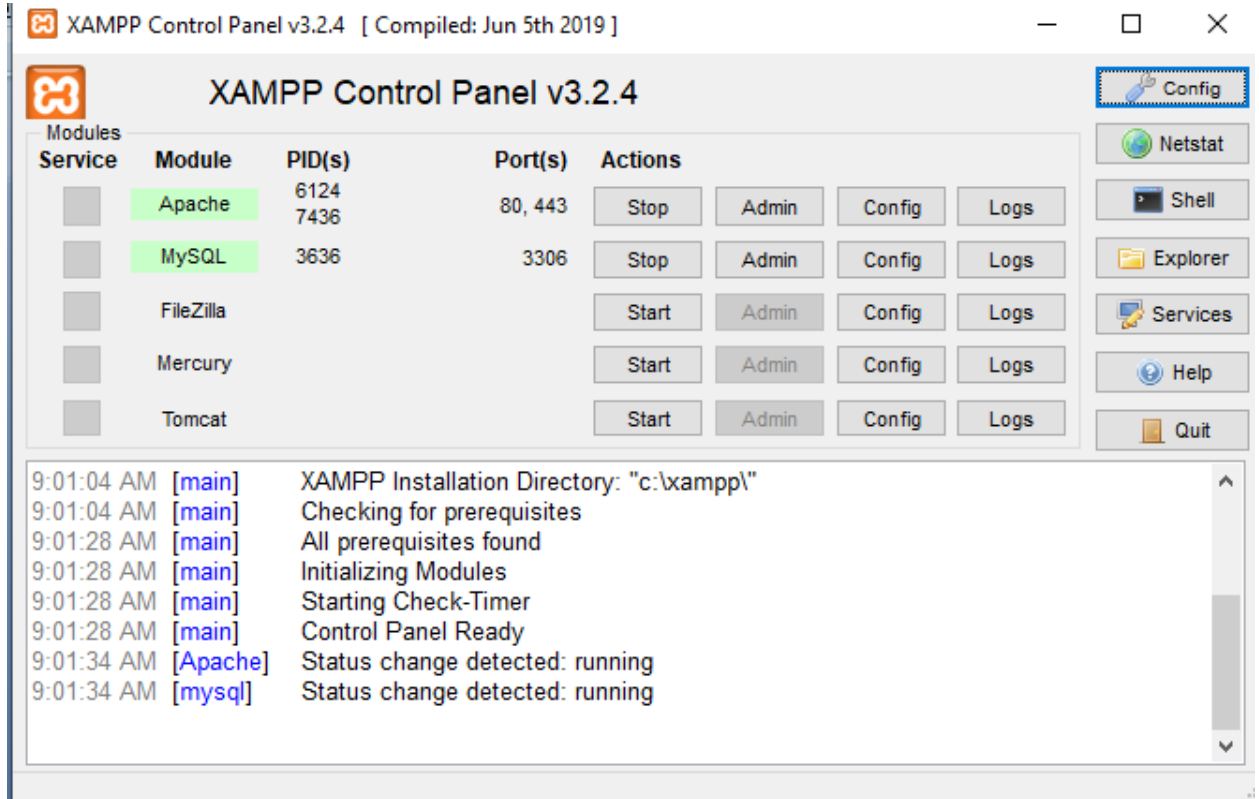


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Kelas : C

Praktikum SBD
Modul 5

Latihan

1. Buka XAMPP



2. Setelah itu masuk cmd dan login sebagai root ke mysql

```
C:\Users\tomy>cd/  
C:\>cd C:/xampp/mysql/bin  
C:\xampp\mysql\bin>mysql -u root -p  
Enter password:  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MariaDB connection id is 8  
Server version: 10.4.8-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. Tampilkan database lalu masuk database perbankan

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| kuliah |
| mysql |
| perbankan |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.138 sec)

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

4. Kemudian masukan data

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(1,'Sutopo','jl. Jendral Sudirman 12');
Query OK, 1 row affected (0.664 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(2,'Maryati','jl. MT.Haryono 31');
Query OK, 1 row affected (0.117 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(3,'Suparman','jl. Hasanudin 81');
Query OK, 1 row affected (0.063 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(4,'Kartika Padmastari','jl. Manggis 15');
Query OK, 1 row affected (0.093 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(5,'Budi Eko Prayogo','jl. Kantil 30');
Query OK, 1 row affected (0.058 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(6,'Satria Eka Jaya','jl. Slamet Riyado 45');
Query OK, 1 row affected (0.085 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(7,'Indri Hapsari','jl. Sutoyo 5');
Query OK, 1 row affected (0.075 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(8,'Sari Murti','jl. Pangandaran 11');
Query OK, 1 row affected (0.075 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(9,'Canka Lokananta','jl. Tidar 86');
Query OK, 1 row affected (0.426 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(10,'Budi Murtono','jl. Merak 22');
Query OK, 1 row affected (0.116 sec)

MariaDB [perbankan]> _
```

```
MariaDB [perbankan]> select * from nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	jl. Jendral Sudirman 12
2	Maryati	jl. MT.Haryono 31
3	Suparman	jl. Hasanudin 81
4	Kartika Padmastari	jl. Manggis 15
5	Budi Eko Prayogo	jl. Kantil 30
6	Satria Eka Jaya	jl. Slamet Riyado 45
7	Indri Hapsari	jl. Sutoyo 5
8	Sari Murti	jl. Pangandaran 11
9	Canka Lokananta	jl. Tidar 86
10	Budi Murtono	jl. Merak 22

10 rows in set (0.001 sec)

5. Inset table cabang bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUS','Bank Rut Surakarta','jl. Slamet Riyadi 18');
Query OK, 1 row affected (0.210 sec)

MariaDB [perbankan]> UPDATE perbankan SET nama_cabang = 'Bank Rut Unit Surakarta' WHERE kode_cabang = 'BRUS';
ERROR 1146 (42S02): Table 'perbankan.perbankan' doesn't exist
MariaDB [perbankan]> UPDATE cabang_bank SET nama_cabang = 'Bank Rut Unit Surakarta' WHERE kode_cabang = 'BRUS';
Query OK, 1 row affected (0.189 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUM','Bank Rut Magelang','jl.P. Tendean 63');
Query OK, 1 row affected (0.330 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUM','Bank Rut Boyolali','jl. Ahmad Yani 45');
ERROR 1062 (23000): Duplicate entry 'BRUM' for key 'PRIMARY'
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUB','Bank Rut Boyolali','jl. Ahmad Yani 45');
Query OK, 1 row affected (0.115 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUK','Bank Rut Klaten','jl. Superman 23');
Query OK, 1 row affected (0.341 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUY','Bank Rut Yogyakarta','jl. Anggrek 21');
Query OK, 1 row affected (0.090 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUM','Bank Rut Wonogiri','jl. Untung Suropati 12');
Query OK, 1 row affected (0.082 sec)

MariaDB [perbankan]> select * from cabang_bank;
```

kode_cabang	nama_cabang	alamat_cabang
BRUB	Bank Rut Boyolali	jl. Ahmad Yani 45
BRUK	Bank Rut Klaten	jl. Superman 23
BRUM	Bank Rut Magelang	jl.P. Tendean 63
BRUS	Bank Rut Unit Surakarta	jl. Slamet Riyadi 18
BRUW	Bank Rut Wonogiri	jl. Untung Suropati 12
BRUY	Bank Rut Yogyakarta	jl. Anggrek 21

```
6 rows in set (0.034 sec)
```

6. Insert table rekening

```
MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('101','BRUS','111','500000');
Query OK, 1 row affected (0.327 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('102','BRUS','2222','350000');
Query OK, 1 row affected (0.629 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('103','BRUS','3333','750000');
Query OK, 1 row affected (0.095 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('104','BRUM','4444','900000');
Query OK, 1 row affected (0.085 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('105','BRUM','5555','2000000');
Query OK, 1 row affected (0.325 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('106','BRUS','6666','3000000');
Query OK, 1 row affected (0.061 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('107','BRUS','7777','1000000');
Query OK, 1 row affected (0.063 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('108','BRUB','0000','5000000');
Query OK, 1 row affected (0.355 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('109','BRUB','1234','0');
Query OK, 1 row affected (0.374 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('110','BRUY','4321','550000');
Query OK, 1 row affected (0.304 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('111','BRUK','9999','150000');
Query OK, 1 row affected (1.670 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('112','BRUK','0123','300000');
Query OK, 1 row affected (0.309 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening,kode_cabangFK,pin,saldo)values('113','BRUY','8888','250000');
Query OK, 1 row affected (0.081 sec)
```

```
MariaDB [perbankan]> select * from rekening;
```

no_rekening	kode_cabangFK	pin	saldo
101	BRUS	111	500000
102	BRUS	2222	350000
103	BRUS	3333	750000
104	BRUM	4444	900000
105	BRUM	5555	2000000
106	BRUS	6666	3000000
107	BRUS	7777	1000000
108	BRUB	0000	5000000
109	BRUB	1234	0
110	BRUY	4321	550000
111	BRUK	9999	150000
112	BRUK	0123	300000
113	BRUY	8888	250000

```
13 rows in set (0.001 sec)
```

7. Insert table nasabah has rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,105);
Query OK, 1 row affected (0.053 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,106);
Query OK, 1 row affected (0.080 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,101);
Query OK, 1 row affected (0.052 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,107);
Query OK, 1 row affected (0.050 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,102);
Query OK, 1 row affected (0.299 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,107);
Query OK, 1 row affected (0.051 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(6,109);
Query OK, 1 row affected (0.104 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(7,109);
Query OK, 1 row affected (0.053 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,111);
Query OK, 1 row affected (0.050 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(9,110);
Query OK, 1 row affected (0.054 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,113);
Query OK, 1 row affected (0.054 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,112);
Query OK, 1 row affected (0.112 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,108);
Query OK, 1 row affected (0.049 sec)
```

```
MariaDB [perbankan]> select * from nasabah_has_rekening;
```

id_nasabahFK	no_rekeningFK
1	104
2	103
3	105
3	106
4	101
4	107
5	102
5	107
6	109
7	109
8	111
8	112
9	110
10	108
10	113

```
15 rows in set (0.032 sec)
```

[illegible]

```

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(29,109,7,'debit','2009-11-5',100000);
Query OK, 1 row affected (0.318 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(30,110,9,'debit','2009-11-6',20000);
Query OK, 1 row affected (0.049 sec)

MariaDB [perbankan]> _

MariaDB [perbankan]> select * from transaksi;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal          | jumlah |
+-----+-----+-----+-----+-----+-----+
| 1           | 3           | 105          | debit          | 2009-11-10 00:00:00 | 50000 |
| 2           | 2           | 103          | debit          | 2009-11-10 00:00:00 | 40000 |
| 3           | 4           | 101          | kredit         | 2009-11-12 00:00:00 | 20000 |
| 4           | 3           | 106          | debit          | 2009-11-13 00:00:00 | 50000 |
| 5           | 5           | 107          | kredit         | 2009-11-13 00:00:00 | 30000 |
| 6           | 1           | 104          | kredit         | 2009-11-15 00:00:00 | 200000 |
| 7           | 9           | 110          | kredit         | 2009-11-15 00:00:00 | 150000 |
| 8           | 5           | 102          | debit          | 2009-11-16 00:00:00 | 20000 |
| 9           | 3           | 105          | kredit         | 2009-11-18 00:00:00 | 50000 |
| 10          | 4           | 107          | debit          | 2009-11-19 00:00:00 | 100000 |
| 11          | 2           | 103          | debit          | 2009-11-19 00:00:00 | 100000 |
| 12          | 1           | 104          | debit          | 2009-11-19 00:00:00 | 50000 |
| 13          | 4           | 107          | kredit         | 2009-11-20 00:00:00 | 200000 |
| 14          | 3           | 105          | debit          | 2009-11-21 00:00:00 | 40000 |
| 15          | 1           | 104          | kredit         | 2009-11-22 00:00:00 | 100000 |
| 16          | 4           | 101          | kredit         | 2009-11-22 00:00:00 | 20000 |
| 17          | 2           | 103          | debit          | 2009-11-22 00:00:00 | 50000 |
| 18          | 5           | 102          | debit          | 2009-11-25 00:00:00 | 50000 |
| 19          | 10          | 108          | debit          | 2009-11-26 00:00:00 | 100000 |
| 20          | 3           | 106          | kredit         | 2009-11-27 00:00:00 | 50000 |
| 21          | 2           | 103          | kredit         | 2009-11-28 00:00:00 | 200000 |
| 22          | 3           | 105          | kredit         | 2009-11-28 00:00:00 | 100000 |
| 23          | 5           | 102          | debit          | 2009-11-30 00:00:00 | 20000 |
| 24          | 1           | 104          | debit          | 2009-11-01 00:00:00 | 50000 |
| 25          | 2           | 103          | debit          | 2009-11-02 00:00:00 | 40000 |
| 26          | 4           | 101          | debit          | 2009-11-04 00:00:00 | 50000 |
| 27          | 2           | 103          | kredit         | 2009-11-05 00:00:00 | 100000 |
| 28          | 5           | 102          | kredit         | 2009-11-05 00:00:00 | 200000 |
| 29          | 7           | 109          | debit          | 2009-11-05 00:00:00 | 100000 |
| 30          | 9           | 110          | debit          | 2009-11-06 00:00:00 | 20000 |
+-----+-----+-----+-----+-----+-----+
30 rows in set (0.001 sec)

```

9. Lakukan update

- Nasabah dengan nama indri Hapsari pindah alamat ke jalan Slamet riyadi

```

MariaDB [perbankan]> update nasabah set alamat_nasabah='jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.076 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1          | Sutopo       | jl. Jendral Sudirman 12 |
| 2          | Maryati      | jl. MT.Haryono 31 |
| 3          | Suparman     | jl. Hasanudin 81 |
| 4          | Kartika Padmastari | jl. Manggis 15 |
| 5          | Budi Eko Prayogo | jl. Kantil 30 |
| 6          | Satria Eka Jaya | jl. Slamet Riyado 45 |
| 7          | Indri Hapsari | jl. Slamet Riyadi 34 |
| 8          | Sari Murti   | jl. Pangandaran 11 |
| 9          | Canka Lokananta | jl. Tidar 86 |
| 10         | Budi Murtono | jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.001 sec)

```


- b. Cabang dengan kode BRUW pindah alamat jalan A.Yani No.23

```
MariaDB [perbankan]> update cabang_bank set alamat_cabang='jl. A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.064 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
```

kode_cabang	nama_cabang	alamat_cabang
BRUB	Bank Rut Boyolali	jl. Ahmad Yani 45
BRUK	Bank Rut Klaten	jl. Suparman 23
BRUM	Bank Rut Magelang	jl.P. Tendean 63
BRUS	Bank Rut Unit Surakarta	jl. Slamet Riyadi 18
BRUW	Bank Rut Wonogiri	jl. A. Yani 23
BRUY	Bank Rut Yogyakarta	jl. Anggrek 21

```
6 rows in set (0.001 sec)
```

10. Lakukan Penghapusan

- a. Nasabah dengan id 7

```
MariaDB [perbankan]> select * from nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	jl. Jendral Sudirman 12
2	Maryati	jl. MT.Haryono 31
3	Suparman	jl. Hasanudin 81
4	Kartika Padmastari	jl. Manggis 15
5	Budi Eko Prayogo	jl. Kantil 30
6	Satria Eka Jaya	jl. Slamet Riyado 45
7	Indri Hapsari	jl. Slamet Riyadi 34
8	Sari Murti	jl. Pangandaran 11
9	Canka Lokananta	jl. Tidar 86
10	Budi Murtono	jl. Merak 22

```
10 rows in set (0.001 sec)

MariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.170 sec)

MariaDB [perbankan]> select * from nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	jl. Jendral Sudirman 12
2	Maryati	jl. MT.Haryono 31
3	Suparman	jl. Hasanudin 81
4	Kartika Padmastari	jl. Manggis 15
5	Budi Eko Prayogo	jl. Kantil 30
6	Satria Eka Jaya	jl. Slamet Riyado 45
8	Sari Murti	jl. Pangandaran 11
9	Canka Lokananta	jl. Tidar 86
10	Budi Murtono	jl. Merak 22

```
9 rows in set (0.001 sec)
```

- b. Cabang dengan nama cabang Bank Rut Unit Magelang menutup kantornya

```
MariaDB [perbankan]> select * from cabang_bank;
```

kode_cabang	nama_cabang	alamat_cabang
BRUB	Bank Rut Boyolali	jl. Ahmad Yani 45
BRUK	Bank Rut Klaten	jl. Suparman 23
BRUM	Bank Rut Magelang	jl.P. Tendean 63
BRUS	Bank Rut Unit Surakarta	jl. Slamet Riyadi 18
BRUW	Bank Rut Wonogiri	jl. A. Yani 23
BRUY	Bank Rut Yogyakarta	jl. Anggrek 21

```
6 rows in set (0.001 sec)
```

```
MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Magelang';  
Query OK, 1 row affected (1.717 sec)
```

```
MariaDB [perbankan]> select * from cabang_bank;
```

kode_cabang	nama_cabang	alamat_cabang
BRUB	Bank Rut Boyolali	jl. Ahmad Yani 45
BRUK	Bank Rut Klaten	jl. Suparman 23
BRUS	Bank Rut Unit Surakarta	jl. Slamet Riyadi 18
BRUW	Bank Rut Wonogiri	jl. A. Yani 23
BRUY	Bank Rut Yogyakarta	jl. Anggrek 21

```
5 rows in set (0.001 sec)
```