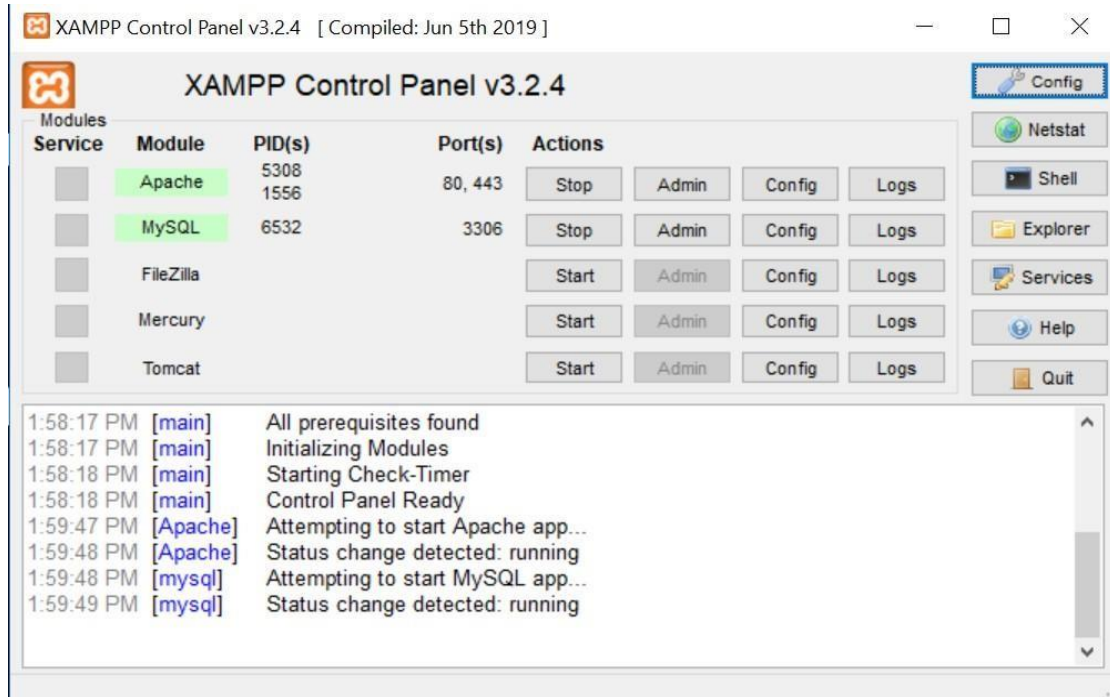


Nama : Ari wibowo  
Nim : L200180056  
Kelas : C

## MODUL 5

- Kegiatan

### 1. Jalankan server XAMPP Control Panel.



### 2. Buka command Prompt dan login sebagai root ke MySQL

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.17134.1365]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\LENOVO>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 9
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.
```

3. Pilih database perbankan dengan perintah “use perbankan”. Sehingga akan muncul pemberitahuan “database changed”.

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| perbankan |
| performance_schema |
| perpustakaan |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.001 sec)

MariaDB [(none)]> use perbankan;
```

Command Prompt - mysql -u root -p

```
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(1, 'Sutopo', 'Jl. Jendral Sudirman 12');
```

4. Masukkan data-data berikut:

- nasabah

Command Prompt - mysql -u root -p

```
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(1, 'Sutopo', 'Jl. Jendral Sudirman 12');
ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(5, 'Budi Eko Prayogo', 'Jl. Kantil 30');
Query OK, 1 row affected (0.161 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45');
Query OK, 1 row affected (0.127 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(7, 'Indri Hapsari', 'Jl. Sutoyo 5');
Query OK, 1 row affected (0.182 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(8, 'Sari Murti', 'Jl. Pangandaran 11');
Query OK, 1 row affected (0.128 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(9, 'Canka Lokananta', 'Jl. Tidar 86');
Query OK, 1 row affected (0.141 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values(10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 1 row affected (0.040 sec)
```

- cabang\_bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18');
Query OK, 1 row affected (0.123 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tendean 63');
Query OK, 1 row affected (0.138 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45');
Query OK, 1 row affected (0.124 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values('BRUK', 'Bank Rut Unit Klaten', 'Jl. Superman 23');
Query OK, 1 row affected (0.124 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21');
Query OK, 1 row affected (0.046 sec)

MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) values('BRUN', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12');
Query OK, 1 row affected (0.031 sec)
```

- rekening

Command Prompt - mysql -u root -p

```
MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(102,'BRUS',2222,350000);
Query OK, 1 row affected (0.146 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(103,'BRUS',3333,750000);
Query OK, 1 row affected (0.050 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(104,'BRUM',4444,900000);
Query OK, 1 row affected (0.062 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(105,'BRUM',5555,2000000);
Query OK, 1 row affected (0.058 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(106,'BRUS',6666,3000000);
Query OK, 1 row affected (0.141 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(107,'BRUS',7777,1000000);
Query OK, 1 row affected (0.060 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(108,'BRUB',0000,5000000);
Query OK, 1 row affected (0.067 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(109,'BRUB',9999,0);
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(110,'BRUY',1234,550000);
Query OK, 1 row affected (0.074 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(111,'BRUK',4321,150000);
Query OK, 1 row affected (0.059 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(112,'BRUK',0123,300000);
Query OK, 1 row affected (0.140 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values(113,'BRUY',8888,255000);
Query OK, 1 row affected (0.069 sec)
```

- nasabah\_has\_rekening

Command Prompt - mysql -u root -p

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(1,104);
Query OK, 1 row affected (0.428 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(2,103);
Query OK, 1 row affected (0.065 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,105);
Query OK, 1 row affected (0.052 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,106);
Query OK, 1 row affected (0.151 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,101);
Query OK, 1 row affected (0.046 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,107);
Query OK, 1 row affected (0.144 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,102);
Query OK, 1 row affected (0.052 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,107);
Query OK, 1 row affected (0.096 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(6,109);
Query OK, 1 row affected (0.044 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(7,109);
Query OK, 1 row affected (0.132 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,111);
Query OK, 1 row affected (0.261 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(9,110);
Query OK, 1 row affected (0.136 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,113);
Query OK, 1 row affected (0.128 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,112);
Query OK, 1 row affected (0.156 sec)
```

- transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values
-> (1,105,3,'debit','2009-11-10',50000),
-> (2,103,2,'debit','2009-11-10',40000),
-> (3,101,4,'kredit','2009-11-12',20000),
-> (4,106,3,'debit','2009-11-13',50000),
-> (5,107,5,'kredit','2009-11-13',30000),
-> (6,104,1,'kredit','2009-11-15',200000),
-> (7,110,9,'kredit','2009-11-15',150000),
-> (8,102,5,'debit','2009-11-16',20000),
-> (9,105,3,'kredit','2009-11-18',50000),
-> (10,107,4,'debit','2009-11-19',100000),
-> (11,103,2,'debit','2009-11-19',100000),
-> (12,104,1,'debit','2009-11-19',50000),
-> (13,107,4,'kredit','2009-11-20',200000),
-> (14,105,3,'debit','2009-11-21',40000),
-> (15,104,1,'kredit','2009-11-22',100000),
-> (16,101,4,'kredit','2009-11-22',20000),
-> (17,103,2,'debit','2009-11-22',50000),
-> (18,102,5,'debit','2009-11-25',50000),
-> (19,108,10,'debit','2009-11-26',100000),
-> (20,106,3,'kredit','2009-11-27',50000),
-> (21,103,2,'kredit','2009-11-28',200000),
-> (22,105,3,'kredit','2009-11-28',100000),
-> (23,102,5,'debit','2009-11-30',20000),
-> (24,104,1,'debit','2009-12-1',50000),
-> (25,103,2,'debit','2009-12-2',40000),
-> (26,101,4,'debit','2009-12-4',50000),
-> (27,103,2,'kredit','2009-12-5',100000),
-> (28,102,5,'kredit','2009-12-5',200000),
-> (29,109,7,'debit','2009-12-5',100000),
-> (30,110,9,'debit','2009-12-6',20000);
Query OK, 30 rows affected (0.335 sec)
Records: 30 Duplicates: 0 Warnings: 0
```

## 5. Lakukan update untuk kasus-kasus berikut ini

- nasabah dengan nama “Indri Hapsari” pindah alamat ke “Jalan Slamet Riyadi No.34”

```
Command Prompt - mysql -u root -p
Query OK, 30 rows affected (0.335 sec)
Records: 30 Duplicates: 0 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 Padmasari | Jl.Manggis 15 |
| 5 | Budi Eko Prayogo | Jl.Kantil 30 |
| 6 | Satria Eka Jaya | Jl.Slamet Riyadi 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 (0.193 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl.Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.090 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 Padmasari | Jl.Manggis 15 |
| 5 | Budi Eko Prayogo | Jl.Kantil 30 |
| 6 | Satria Eka Jaya | Jl.Slamet Riyadi 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 (0.000 sec)
```

- cabang dengan kode “BRUW” pindah ke alamat “jalan A. YaniNo.23”.

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

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

```
6 rows in set (0.122 sec)

MariaDB [perbankan]> update cabang_bank set alamat_cabang='Jl.A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.185 sec)
Rows matched: 1 Changed: 1 Warnings: 0

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

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

```
6 rows in set (0.000 sec)
```

## 6. Lakukan penghapusan untuk kasus-kasus berikut ini.

- nasabah dengan id “7” menutup rekeningnya.

```
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 Padmasari	Jl.Manggis 15
5	Budi Eko Prayogo	Jl.Kantil 30
6	Satria Eka Jaya	Jl.Slamet Riyadi 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 (0.149 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 Padmasari	Jl.Manggis 15
5	Budi Eko Prayogo	Jl.Kantil 30
6	Satria Eka Jaya	Jl.Slamet Riyadi 45
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Murtono	Jl.Merak 22

```
9 rows in set (0.000 sec)
```

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

```
5 rows in set (0.000 sec)

MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.151 sec)

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

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

```
5 rows in set (0.001 sec)

MariaDB [perbankan]>
```

- Tugas

## 1. Melakukan Record

- nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)value
-> (11,'Rifqi','Jl.Kenangan 19'),
-> (12,'Adit','Jl.Tanjung 3'),
-> (13,'Mahendra','Jl.Anyar 12'),
-> (14,'Djum','Jl.Layang 17'),
-> (15,'Kuntet','Jl.panjang 45'),
-> (16,'Kirun','Jl.panjang 23'),
-> (17,'Cahyo','Jl.Anyar 7'),
-> (18,'Purwo','Jl.Lari 30'),
-> (19,'Nur','Jl.Santai 22'),
-> (20,'Narto','Jl.Cepat 11');
Query OK, 10 rows affected (0.044 sec)
Records: 10 Duplicates: 0 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 Padmasari	Jl.Manggis 15
5	Budi Eko Prayogo	Jl.Kantil 30
6	Satria Eka Jaya	Jl.Slamet Riyadi 45
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Murtono	Jl.Merak 22
11	Rifqi	Jl.Kenangan 19
12	Adit	Jl.Tanjung 3
13	Mahendra	Jl.Anyar 12
14	Djum	Jl.Layang 17
15	Kuntet	Jl.panjang 45
16	Kirun	Jl.panjang 23
17	Cahyo	Jl.Anyar 7
18	Purwo	Jl.Lari 30
19	Nur	Jl.Santai 22
20	Narto	Jl.Cepat 11

```
19 rows in set (0.000 sec)
```



- cabang\_bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values
-> ('BRUP','Bank Rut Unit Pati','Jl. Bersama 4'),
-> ('BRUN','Bank Rut Unit Nabawi','Jl. Sastro 12'),
-> ('BRUA','Bank Rut Unit Aceh','Jl. Panjang 34'),
-> ('BRUC','Bank Rut Unit Cirebon','Jl. Soekarno 12'),
-> ('BRUH','Bank Rut Unit Hutan','Jl. Pahlawan 2'),
-> ('BRUD','Bank Rut Unit Dawe','Jl. Jalan 1'),
-> ('BRUF','Bank Rut Unit Fak','Jl. Kedung 15'),
-> ('BRUG','Bank Rut Unit Gondo','Jl. Lingkar 45'),
-> ('BRUJ','Bank Rut Unit Jakarta','Jl. Pahlawan 12'),
-> ('BRUL','Bank Rut Unit Loram','Jl. Kita 12');
Query OK, 10 rows affected (0.027 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUA | Bank Rut Unit Aceh | Jl. Panjang 34 |
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUC | Bank Rut Unit Cirebon | Jl. Soekarno 12 |
| BRUD | Bank Rut Unit Dawe | Jl. Jalan 1 |
| BRUF | Bank Rut Unit Fak | Jl. Kedung 15 |
| BRUG | Bank Rut Unit Gondo | Jl. Lingkar 45 |
| BRUH | Bank Rut Unit Hutan | Jl. Pahlawan 2 |
| BRUJ | Bank Rut Unit Jakarta | Jl. Pahlawan 12 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUL | Bank Rut Unit Loram | Jl. Kita 12 |
| BRUN | Bank Rut Unit Nabawi | Jl. Sastro 12 |
| BRUP | Bank Rut Unit Pati | Jl. Bersama 4 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jl. A. Yani 23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
15 rows in set (0.001 sec)
```

- rekening

```
MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values
-> (114,'BRUM',3456,2000000),
-> (115,'BRUP',2444,2560000),
-> (116,'BRUS',4567,1260000),
-> (117,'BRUY',6789,5210000);
Query OK, 4 rows affected (0.044 sec)
Records: 4 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)values
-> (118,'BRUK',7890,2210000),
-> (119,'BRUP',7645,3210000),
-> (120,'BRUL',6543,4210000),
-> (121,'BRUN',8765,6710000),
-> (122,'BRUJ',4680,7710000),
-> (123,'BRUM',1357,9210000);
Query OK, 6 rows affected (0.033 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from rekening;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin | saldo |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 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 | 0 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUM | 3456 | 2000000 |
| 115 | BRUP | 2444 | 2560000 |
| 116 | BRUS | 4567 | 1260000 |
| 117 | BRUY | 6789 | 5210000 |
| 118 | BRUK | 7890 | 2210000 |
| 119 | BRUP | 7645 | 3210000 |
+-----+-----+-----+-----+
```

```

MariaDB [perbankan]> select * from rekening;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin  | saldo |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 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 | 0 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUW | 3456 | 2000000 |
| 115 | BRUP | 2444 | 2560000 |
| 116 | BRUS | 4567 | 1260000 |
| 117 | BRUY | 6789 | 5210000 |
| 118 | BRUK | 7890 | 2210000 |
| 119 | BRUP | 7645 | 3210000 |
| 120 | BRUL | 6543 | 4210000 |
| 121 | BRUN | 8765 | 6710000 |
| 122 | BRUJ | 4680 | 7710000 |
| 123 | BRUW | 1357 | 9210000 |
+-----+-----+-----+-----+
23 rows in set (0.001 sec)

```

- nasabah\_has\_rekening

```

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)value
-> (11,115),
-> (12,116),
-> (13,118),
-> (14,119),
-> (15,120),
-> (16,1117),
-> (17,117),
-> (18,122),
-> (19,121),
-> (20,124);
Query OK, 10 rows affected (0.114 sec)
Records: 10 Duplicates: 0 Warnings: 0

```



```
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
11	115
12	116
13	118
14	119
15	120
16	1117
17	117
18	122
19	121
20	124

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

- transaksi

```
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values
-> (31,104,19,'debit','2020-03-01',200000),
-> (32,105,9,'debit','2020-03-01',230000),
-> (33,1117,20,'debit','2020-03-02',130000),
-> (34,117,10,'debit','2020-03-02',430000),
-> (35,112,2,'debit','2020-03-03',530000),
-> (36,111,4,'debit','2020-03-03',1230000),
-> (37,119,2,'debit','2020-03-03',2330000),
-> (38,109,13,'debit','2020-03-03',3130000),
-> (39,102,3,'debit','2020-03-04',530000),
-> (40,122,8,'Kredit','2020-03-06',240000),
-> (41,121,6,'Kredit','2020-03-07',740000),
-> (42,105,1,'Kredit','2020-03-08',950000),
-> (43,108,9,'Kredit','2020-03-010',6750000),
-> (44,117,13,'Kredit','2020-03-012',8750000),
-> (45,118,12,'Kredit','2020-03-015',2550000),
-> (46,120,14,'Kredit','2020-03-017',1550000),
-> (47,124,15,'Kredit','2020-03-019',2550000),
-> (48,113,17,'Debit','2020-03-21',3550000),
-> (49,112,18,'Debit','2020-03-22',4250000),
-> (50,111,19,'Debit','2020-03-29',250000);
Query OK, 20 rows affected (0.041 sec)
Records: 20 Duplicates: 0 Warnings: 0
```

```
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	2009-12-01 00:00:00	50000
25	2	103	debit	2009-12-02 00:00:00	40000
26	4	101	debit	2009-12-04 00:00:00	50000
27	2	103	kredit	2009-12-05 00:00:00	100000
28	5	102	kredit	2009-12-05 00:00:00	200000
29	7	109	debit	2009-12-05 00:00:00	100000
30	9	110	debit	2009-12-06 00:00:00	20000
31	19	104	debit	2020-03-01 00:00:00	200000
32	9	105	debit	2020-03-01 00:00:00	230000
33	20	1117	debit	2020-03-02 00:00:00	130000
34	10	117	debit	2020-03-02 00:00:00	430000
35	2	112	debit	2020-03-03 00:00:00	530000
36	4	111	debit	2020-03-03 00:00:00	1230000
37	2	119	debit	2020-03-03 00:00:00	2330000

## 2. Melakukan perintah

- insert

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(21,'Jayadi','Jl. Angkring 1');
Query OK, 1 row affected (0.117 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 Padmasari	Jl.Manggis 15
5	Budi Eko Prayogo	Jl.Kantil 30
6	Satria Eka Jaya	Jl.Slamet Riyadi 45
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Murtono	Jl.Merak 22
11	Rifqi	Jl.Kenangan 19
12	Adit	Jl.Tanjung 3
13	Mahendra	Jl.Anyar 12
14	Djum	Jl.Layang 17
15	Kuntet	Jl.panjang 45
16	Kirun	Jl.panjang 23
17	Cahyo	Jl.Anyar 7
18	Purwo	Jl.Lari 30
19	Nur	Jl.Santai 22
20	Narto	Jl.Cepat 11
21	Jayadi	Jl. Angkring 1

```
20 rows in set (0.000 sec)
```

- update

```
MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl.Satu 12' where id_nasabah=21;
Query OK, 1 row affected (0.120 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 Padmasari	Jl.Manggis 15
5	Budi Eko Prayogo	Jl.Kantil 30
6	Satria Eka Jaya	Jl.Slamet Riyadi 45
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Murtono	Jl.Merak 22
11	Rifqi	Jl.Kenangan 19
12	Adit	Jl.Tanjung 3
13	Mahendra	Jl.Anyar 12
14	Djum	Jl.Layang 17
15	Kuntet	Jl.panjang 45
16	Kirun	Jl.panjang 23
17	Cahyo	Jl.Anyar 7
18	Purwo	Jl.Lari 30
19	Nur	Jl.Santai 22
20	Narto	Jl.Cepat 11
21	Jayadi	Jl.Satu 12

```
20 rows in set (0.000 sec)
```

- delete

```
MariaDB [perbankan]> delete from nasabah where id_nasabah=21;
Query OK, 1 row affected (0.119 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 Padmasari	Jl.Manggis 15
5	Budi Eko Prayogo	Jl.Kantil 30
6	Satria Eka Jaya	Jl.Slamet Riyadi 45
8	Sari Murti	Jl.Pangandaran 11
9	Canka Lokananta	Jl.Tidar 86
10	Budi Murtono	Jl.Merak 22
11	Rifqi	Jl.Kenangan 19
12	Adit	Jl.Tanjung 3
13	Mahendra	Jl.Anyar 12
14	Djum	Jl.Layang 17
15	Kuntet	Jl.panjang 45
16	Kirun	Jl.panjang 23
17	Cahyo	Jl.Anyar 7
18	Purwo	Jl.Lari 30
19	Nur	Jl.Santai 22
20	Narto	Jl.Cepat 11

```
19 rows in set (0.000 sec)
```

```
MariaDB [perbankan]> _
```