

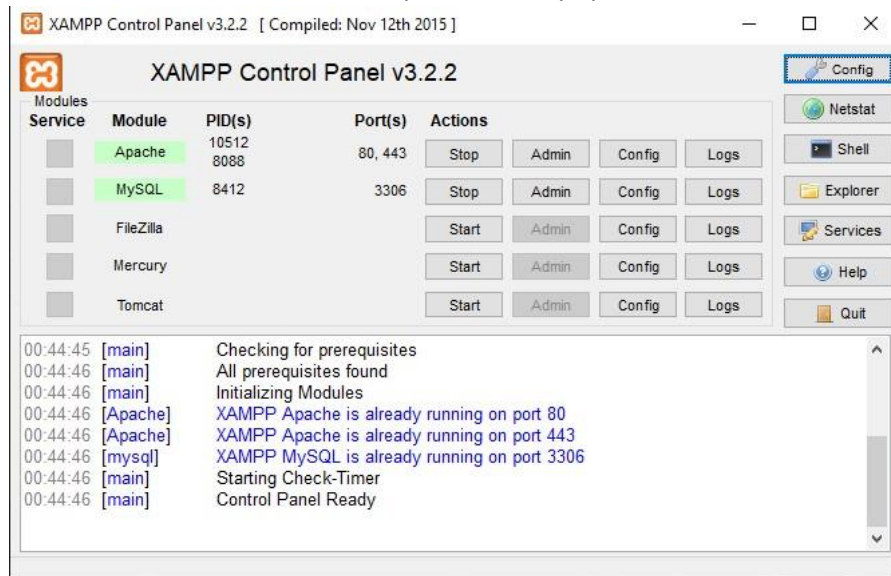
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## Prak-SBD

### Modul 5

#### Latihan

1. Buka XAMPP , lalu aktifkan server apache dan mysql,



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

```
C:\Users\Convy_22nd>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 2
Server version: 10.1.34-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 table database, lalu pilih/ masuk ke databse perbankan

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| boking   |
| datakost |
| gayo     |
| information_schema |
| kuliner  |
| laravel  |
| latihan_crud |
| login    |
| mylink   |
| mysql    |
| perbankan |
| percobaan |
| performance_schema |
| phpmyadmin |
| sma 1 dayun |
| test     |
| university |
+-----+
17 rows in set (0.18 sec)

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

4. kemudian masukan data yang diperintahkan ➦ insert table nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(1,'Sutopo','Jl. Jendral Sudirman 12');
Query OK, 1 row affected (0.21 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(2,'Maryati','Jl. MT.Haryono 31');
Query OK, 1 row affected (0.13 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(3,'Suparman','Jl. Hasanudin 81');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(4,'Kartika Padmasari','Jl. Manggis 15');
Query OK, 1 row affected (0.13 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 (0.06 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 (0.17 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(7,'Indri Hapsari','Jl. Sutoyo 5');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(8,'Sari Murti','Jl. Pangandaran 11');
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(9,'Canka Loknanta','Jl. Tidar 86');
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(10,'Budi Murtono','Jl. Merak 22');
Query OK, 1 row affected (0.10 sec)
```

➦ insert table cabang\_bank

```
Command Prompt - mysql -u root -p
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 (0.10 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 (0.17 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 (0.10 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 (0.11 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 (0.04 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 (0.06 sec)

MariaDB [perbankan]> insert into rekening()values('');
```

## ✚ insert table rekening

```
Command Prompt - mysql -u root -p
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(101,'BRUS',1111,500000);
ERROR 1054 (42S22): Unknown column 'kode_cabang' in 'field list'
MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(101,'BRUS',1111,500000);
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(102,'BRUS',2222,350000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(103,'BRUS',3333,750000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(104,'BRUM',4444,900000);
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(105,'BRUM',5555,200000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(106,'BRUS',6666,300000);
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(107,'BRUS',7777,100000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(108,'BRUB',0000,500000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(109,'BRUB',9999,0);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(110,'BRUY',1234,550000);
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(111,'BRUK',4321,150000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(112,'BRUK',0123,300000);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(113,'BRUY',8888,255000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]>
```

## ✚ insert table nasabah\_has\_rekening

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(2,103);
Query OK, 1 row affected (0.07 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,105);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,106);
Query OK, 1 row affected (0.19 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,106);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,101);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,107);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,102);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,107);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(6,109);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(7,109);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,111);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(9,110);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,113);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,112);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,108);
Query OK, 1 row affected (0.07 sec)
```



## ✚ insert table transaksi

```
Command Prompt - mysql -u root -p
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(1,105,3,'debit','2019-11-10',50000);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(2,103,2,'debit','2019-11-10',40000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(3,101,4,'kredit','2019-11-12',20000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(4,106,3,'debit','2019-11-13',30000);
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(5,107,5,'kredit','2019-11-13',30000);
Query OK, 1 row affected (0.21 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(6,104,1,'kredit','2019-11-15',20000);
Query OK, 1 row affected (0.08 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(7,110,9,'kredit','2019-11-15',150000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(8,102,5,'debit','2019-11-16',20000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(9,105,3,'kredit','2019-11-18',50000);
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(10,107,4,'debit','2019-11-19',100000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(11,103,2,'debit','2019-11-19',100000);
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(12,104,1,'debit','2019-11-19',50000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(13,107,4,'kredit','2019-11-20',200000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(14,105,3,'debit','2019-11-21',40000);
Query OK, 1 row affected (0.06 sec)

Command Prompt - mysql -u root -p

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(14,105,3,'debit','2019-11-21',40000);
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(15,104,1,'kredit','2019-11-22',100000);
Query OK, 1 row affected (0.19 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(16,101,4,'kredit','2019-11-22',20000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(17,103,2,'debit','2019-11-22',50000);
Query OK, 1 row affected (0.18 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(18,102,5,'debit','2019-11-25',50000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(19,100,10,'debit','2019-11-26',100000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(20,106,3,'kredit','2019-11-27',50000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(21,103,2,'kredit','2019-11-28',200000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(22,105,3,'kredit','2019-11-28',100000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(23,102,5,'debit','2019-11-30',20000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(24,104,1,'debit','2019-11-1',50000);
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(25,103,2,'debit','2019-11-2',40000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(26,101,4,'debit','2019-12-4',50000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(27,103,2,'kredit','2019-12-5',100000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]>

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(28,102,5,'kredit','2019-12-5',200000);
Query OK, 1 row affected (0.33 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(29,109,7,'debit','2019-12-5',100000);
Query OK, 1 row affected (0.09 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values(30,110,9,'debit','2019-12-6',20000);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> _
```

## 5. Lakukan update untuk kasus berikut

- ✚ Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi No.34" Sebelum

```

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT.Haryono 31 |
| 3 | Superman | 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 Loknanta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.05 sec)

MariaDB [perbankan]> _

```

sesudah

```

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.13 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 | Superman | 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 Loknanta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.00 sec)

MariaDB [perbankan]> _

```

- ✚ Cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No.23"
- Sebelum

```

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. Superman 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 (0.05 sec)

MariaDB [perbankan]>

```

sesudah

```
MariaDB [perbankan]> update cabang_bank set alamat_cabang='Jl. A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.11 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 (0.00 sec)

MariaDB [perbankan]>
```

6. Lakukan penghapusan untuk kasus berikut

✚ Nasabah dengan id "7" menutup rekeningnya Sebelum

```
10 rows in set (0.00 sec)

MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.13 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 Loknanta        | Jl. Tidar 86            |
| 10         | Budi Murtono          | Jl. Merak 22            |
+-----+-----+-----+
10 rows in set (0.00 sec)

MariaDB [perbankan]>
```

sesudah

```
MariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.08 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 Loknanta        | Jl. Tidar 86            |
| 10         | Budi Murtono          | Jl. Merak 22            |
+-----+-----+-----+
9 rows in set (0.00 sec)

MariaDB [perbankan]>
```

✚ Cabang dengan nama\_cabang "Bank Rut Unit Magelang" menutup Kantornya Sebelum

```

MariaDB [perbankan]> update cabang_bank set alamat_cabang='Jl. A. Yani 23' where kode_cabang='BRUW';
Query OK, 1 row affected (0.11 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. Superman 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 (0.00 sec)

MariaDB [perbankan]>

```

sesudah

```

MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.16 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. Superman 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 (0.00 sec)

MariaDB [perbankan]>

```

**Tugas**



## 1. Record tabel nasabah

```
14, 'suherman', 'Jl. Melati 30')
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values
-> (11,'khoir','Jl. Mawar 10'),
-> (12,'khoirudin','Jl. Mawar 20'),
-> (13,'conv','Jl. Melati 20'),
-> (14,'suherman','Jl. Melati 30'),
-> (15,'rohmad','Jl. Sudirman 30'),
-> (16,'idfi','Jl. Soeharto 12'),
-> (17,'sari','Jl. Soeharto 15'),
-> (18,'lia','Jl. Soekarno 13'),
-> (19,'asri','Jl. broto 8'),
-> (20,'ikhsani','Jl. gatot 9');
Query OK, 10 rows affected (0.20 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 Loknanta    | Jl. Tidar 86            |
| 10         | Budi Murtono      | Jl. Merak 22            |
| 11         | Khoir             | Jl. Mawar 10            |
| 12         | khoirudin         | Jl. Mawar 20            |
| 13         | conv              | Jl. Melati 20           |
| 14         | suherman          | Jl. Melati 30           |
| 15         | rohmad            | Jl. Sudirman 30         |
| 16         | idfi              | Jl. Soeharto 12         |
| 17         | sari              | Jl. Soeharto 15         |
| 18         | lia               | Jl. Soekarno 13         |
| 19         | asri              | Jl. broto 8             |
| 20         | ikhsani           | Jl. gatot 9             |

```
19 rows in set (0.04 sec)
```

## 2. Record tabel cabang\_bank

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

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values
-> ('BRUA','Bank Rut Unit Andalas','Jl. Sugeng 16'),
-> ('BRUP','Bank Rut Unit Padang','Jl. Ampera 13'),
-> ('BRUT','Bank Rut Unit Tegal','Jl. Soepomo 15'),
-> ('BRUN','Bank Rut Unit Ngawi','Jl. Anggrek 19'),
-> ('BRUC','Bank Rut Unit Cikampek','Jl. Soeharto 17'),
-> ('BRUL','Bank Rut Unit Lord','Jl. Mawar 18'),
-> ('BRUD','Bank Rut Unit Dilo','Jl. Sudirman 12'),
-> ('BRUF','Bank Rut Unit Fasio','Jl. Soeharto 11'),
-> ('BRUG','Bank Rut Unit Gempolo','Jl. Melati 13'),
-> ('BRUH','Bank Rut Unit Hasbon','Jl. Hangtuah 15');
Query OK, 10 rows affected (0.14 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

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

| kode_cabang | nama_cabang              | alamat_cabang        |
|-------------|--------------------------|----------------------|
| BRUA        | Bank Rut Unit Andalas    | Jl. Sugeng 16        |
| BRUB        | Bank Rut Unit Boyolali   | Jl. Ahmad Yani 45    |
| BRUC        | Bank Rut Unit Cikampek   | Jl. Soeharto 17      |
| BRUD        | Bank Rut Unit Dilo       | Jl. Sudirman 12      |
| BRUF        | Bank Rut Unit Fasio      | Jl. Soeharto 11      |
| BRUG        | Bank Rut Unit Gempolo    | Jl. Melati 13        |
| BRUH        | Bank Rut Unit Hasbon     | Jl. Hangtuah 15      |
| BRUK        | Bank Rut Unit Klaten     | Jl. Suparman 23      |
| BRUL        | Bank Rut Unit Lord       | Jl. Mawar 18         |
| BRUN        | Bank Rut Unit Ngawi      | Jl. Anggrek 19       |
| BRUP        | Bank Rut Unit Padang     | Jl. Ampera 13        |
| BRUS        | Bank Rut Unit Surakarta  | Jl. Slamet Riyadi 18 |
| BRUT        | Bank Rut Unit Tegal      | Jl. Soepomo 15       |
| BRUW        | Bank Rut Unit Wonogiri   | Jl. A. Yani 23       |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21       |

```
15 rows in set (0.00 sec)
```

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



### 3. Record tabel rekening

```
Command Prompt - mysql -u root -p
+-----+
15 rows in set (0.00 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values
-> (114,'BRUA',2345,1000000),
-> (115,'BRUB',3456,2000000),
-> (116,'BRUB',4567,3000000),
-> (117,'BRUS',5678,4000000),
-> (118,'BRUG',6789,5000000),
-> (119,'BRUA',7890,6000000),
-> (120,'BRUY',1357,7000000),
-> (121,'BRUK',2468,8000000),
-> (122,'BRUF',1290,9000000),
-> (123,'BRUH',1290,10000000);
Query OK, 10 rows affected (0.12 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
MariaDB [perbankan]> select * from rekening;
+-----+
| no_rekening | kode_cabang | pin   | saldo |
+-----+
| 101         | BRUS        | 1111  | 500000 |
| 102         | BRUS        | 2222  | 350000 |
| 103         | BRUS        | 3333  | 750000 |
| 104         | BRUM        | 4444  | 900000 |
| 105         | BRUM        | 55555 | 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         | BRUA        | 2345  | 1000000 |
| 115         | BRUB        | 3456  | 2000000 |
| 116         | BRUB        | 4567  | 3000000 |
| 117         | BRUS        | 5678  | 4000000 |
| 118         | BRUG        | 6789  | 5000000 |
| 119         | BRUA        | 7890  | 6000000 |
| 120         | BRUY        | 1357  | 7000000 |
| 121         | BRUK        | 2468  | 8000000 |
| 122         | BRUF        | 1290  | 9000000 |
| 123         | BRUH        | 1290  | 10000000 |
+-----+
23 rows in set (0.00 sec)
```

```
MariaDB [perbankan]>
```

#### 4. Record tabel nasabah\_has\_rekening

```
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values
-> (11,114),
-> (12,115),
-> (13,116),
-> (14,117),
-> (15,118),
-> (16,119),
-> (17,120),
-> (18,121),
-> (19,122),
-> (20,123);
Query OK, 10 rows affected (0.09 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            | 106           |
| 4            | 107           |
| 5            | 102           |
| 5            | 107           |
| 6            | 109           |
| 7            | 109           |
| 8            | 111           |
| 8            | 112           |
| 9            | 110           |
| 10           | 108           |
| 10           | 113           |
| 11           | 114           |
| 12           | 115           |
| 13           | 116           |
| 14           | 117           |
| 15           | 118           |
| 16           | 119           |
| 17           | 120           |
| 18           | 121           |
| 19           | 122           |
| 20           | 123           |

```
26 rows in set (0.00 sec)
```

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





## 5. Record transaksi

```

MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah)values
-> (31,114,11,'debit','2020-01-11',100000),
-> (32,114,11,'kredit','2020-01-11',50000),
-> (33,115,12,'debit','2020-01-22',200000),
-> (34,115,12,'kredit','2020-01-24',50000),
-> (35,116,13,'debit','2020-01-26',300000),
-> (36,116,13,'kredit','2020-01-28',50000),
-> (37,117,14,'debit','2020-02-01',400000),
-> (38,117,14,'kredit','2020-02-03',50000),
-> (39,118,15,'debit','2020-02-05',500000),
-> (40,118,15,'kredit','2020-02-07',50000),
-> (41,119,16,'debit','2020-02-09',600000),
-> (42,119,16,'kredit','2020-02-11',50000),
-> (43,120,17,'debit','2020-02-13',700000),
-> (44,120,17,'kredit','2020-02-15',50000),
-> (45,121,18,'debit','2020-02-17',800000),
-> (46,121,18,'kredit','2020-02-19',50000),
-> (47,122,19,'debit','2020-03-05',900000),
-> (48,122,19,'kredit','2020-03-25',50000),
-> (49,123,20,'debit','2020-03-09',1000000),
-> (50,123,20,'kredit','2020-03-29',500000);
Query OK, 20 rows affected (0.11 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           | 2019-11-10 00:00:00 | 50000   |
| 2            | 2            | 103           | debit           | 2019-11-10 00:00:00 | 40000   |
| 3            | 4            | 101           | kredit          | 2019-11-12 00:00:00 | 20000   |
| 4            | 3            | 106           | debit           | 2019-11-13 00:00:00 | 30000   |
| 5            | 5            | 107           | kredit          | 2019-11-13 00:00:00 | 30000   |
| 6            | 1            | 104           | kredit          | 2019-11-15 00:00:00 | 200000  |
| 7            | 9            | 110           | kredit          | 2019-11-15 00:00:00 | 150000  |
| 8            | 5            | 102           | debit           | 2019-11-16 00:00:00 | 20000   |
| 9            | 3            | 105           | kredit          | 2019-11-18 00:00:00 | 50000   |
| 10           | 4            | 107           | debit           | 2019-11-19 00:00:00 | 100000  |
| 11           | 2            | 103           | debit           | 2019-11-19 00:00:00 | 100000  |
| 12           | 1            | 104           | debit           | 2019-11-19 00:00:00 | 50000   |
| 13           | 4            | 107           | kredit          | 2019-11-20 00:00:00 | 200000  |
| 14           | 3            | 105           | debit           | 2019-11-21 00:00:00 | 40000   |
| 15           | 1            | 104           | kredit          | 2019-11-22 00:00:00 | 100000  |
| 16           | 4            | 101           | kredit          | 2019-11-22 00:00:00 | 20000   |
| 17           | 2            | 103           | debit           | 2019-11-22 00:00:00 | 50000   |
| 18           | 5            | 102           | debit           | 2019-11-25 00:00:00 | 50000   |
| 19           | 10           | 108           | debit           | 2019-11-26 00:00:00 | 100000  |
| 20           | 3            | 106           | kredit          | 2019-11-27 00:00:00 | 50000   |
| 21           | 2            | 103           | kredit          | 2019-11-28 00:00:00 | 200000  |
| 22           | 3            | 105           | kredit          | 2019-11-28 00:00:00 | 100000  |
| 23           | 5            | 102           | debit           | 2019-11-30 00:00:00 | 20000   |
| 24           | 1            | 104           | debit           | 2019-12-01 00:00:00 | 50000   |
| 25           | 2            | 103           | debit           | 2019-12-02 00:00:00 | 40000   |
| 26           | 4            | 101           | debit           | 2019-12-04 00:00:00 | 50000   |
| 27           | 2            | 103           | kredit          | 2019-12-05 00:00:00 | 100000  |
| 28           | 5            | 102           | kredit          | 2019-12-05 00:00:00 | 200000  |
| 29           | 7            | 109           | debit           | 2019-12-05 00:00:00 | 100000  |
| 30           | 9            | 110           | debit           | 2019-12-06 00:00:00 | 20000   |
| 31           | 11           | 114           | debit           | 2020-01-11 00:00:00 | 100000  |
| 32           | 11           | 114           | kredit          | 2020-01-11 00:00:00 | 50000   |
| 33           | 12           | 115           | debit           | 2020-01-22 00:00:00 | 200000  |
| 34           | 12           | 115           | kredit          | 2020-01-24 00:00:00 | 50000   |
| 35           | 13           | 116           | debit           | 2020-01-26 00:00:00 | 300000  |
| 36           | 13           | 116           | kredit          | 2020-01-28 00:00:00 | 50000   |
| 37           | 14           | 117           | debit           | 2020-02-01 00:00:00 | 400000  |
| 38           | 14           | 117           | kredit          | 2020-02-03 00:00:00 | 50000   |
| 39           | 15           | 118           | debit           | 2020-02-05 00:00:00 | 500000  |
| 40           | 15           | 118           | kredit          | 2020-02-07 00:00:00 | 50000   |
| 41           | 16           | 119           | debit           | 2020-02-09 00:00:00 | 600000  |
| 42           | 16           | 119           | kredit          | 2020-02-11 00:00:00 | 50000   |
| 43           | 17           | 120           | debit           | 2020-02-13 00:00:00 | 700000  |
| 44           | 17           | 120           | kredit          | 2020-02-15 00:00:00 | 50000   |
| 45           | 18           | 121           | debit           | 2020-02-17 00:00:00 | 800000  |
| 46           | 18           | 121           | kredit          | 2020-02-19 00:00:00 | 50000   |
| 47           | 19           | 122           | debit           | 2020-03-05 00:00:00 | 900000  |
| 48           | 19           | 122           | kredit          | 2020-03-25 00:00:00 | 50000   |
| 49           | 20           | 123           | debit           | 2020-03-09 00:00:00 | 1000000 |
| 50           | 20           | 123           | kredit          | 2020-03-29 00:00:00 | 500000  |

```

50 rows in set (0.00 sec)

```

