

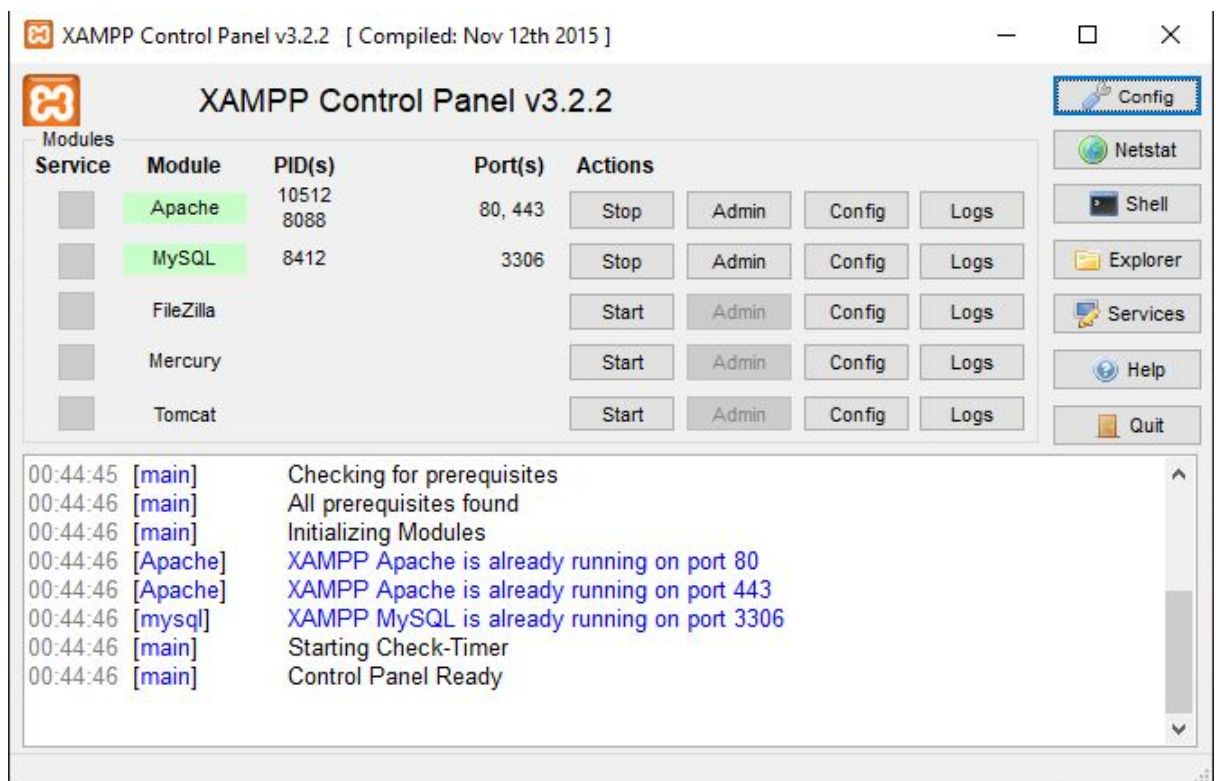
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Prak-SBD

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:\> Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

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)]> show databases;
```

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

a. 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)
```

b. 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. Suparman 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('BRUW','Bank Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 1 row affected (0.06 sec)

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

c. 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,'BRUV',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,'BRUM',0123,300000);
Query OK, 1 row affected (0.10 sec)

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

MariaDB [perbankan]>
```

d. 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)
```

e. 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',200000);
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 (0.10 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
 - a. 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 | 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 Loknanta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.05 sec)

MariaDB [perbankan]> _

```

Sesudah

```

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]> _

```

b.

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. 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 (0.05 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
 - a. Lakukan penghapusan untuk kasus berikut

Sebelum

```
50 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]>
```

- b. Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup Kantornya

Sebelum

```
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. 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 (0.00 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. 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 (0.00 sec)

MariaDB [perbankan]> _
```

TUGAS

1. Record tabel nasabah

```

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


```

C:\ 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

```

C:\ 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)