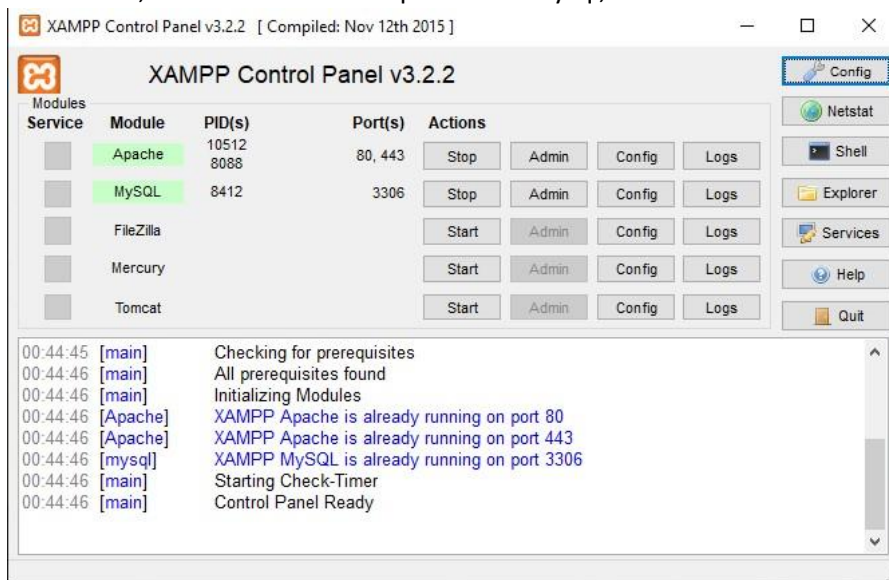


LAPORAN PRAKTIKUM
BASIS DATA
MODUL 5
REYLIAN PREALDREAM ANAREKA
L200180087
KELAS D

Latihan

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



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

```
CA 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 ❖ 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. 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('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',5555,2000000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(106,'BRUS',6666,3000000);
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(107,'BRUS',7777,1000000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(108,'BRUB',0000,5000000);
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',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(19,108,10,'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 (0.10 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

```
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	1	Sutopo	Jl. Jendral Sudirman 12
2	2	Maryati	Jl. MT.Haryono 31
3	3	Suparman	Jl. Hasanudin 81
4	4	Kartika Padmasari	Jl. Manggis 15
5	5	Budi Eko Prayogo	Jl. Kantil 30
6	6	Satria Eka Jaya	Jl. Slamet Riyadi 45
8	8	Sari Murti	Jl. Pangandaran 11
9	9	Canka Loknanta	Jl. Tidar 86
10	10	Budi Murtono	Jl. Merak 22
11	11	khoir	Jl. Mawar 10
12	12	khoirudin	Jl. Mawar 20
13	13	conv	Jl. Melati 20
14	14	suherman	Jl. Melati 30
15	15	rohmad	Jl. Sudirman 30
16	16	idfi	Jl. Soeharto 12
17	17	sari	Jl. Soeharto 15
18	18	lia	Jl. Soekarno 13
19	19	asri	Jl. broto 8
20	20	ikhsani	Jl. gatot 9

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

2. Record tabel cabang_bank

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

```

