Nama : Yussynta Dewi Aprilya Putri

NIM : L200170084

Kelas : D

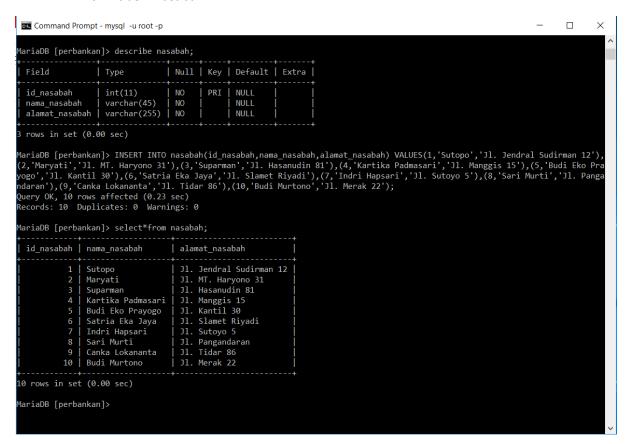
MODUL05

- 1. Jalankan XAMPP Control Panel
- 2. Jalankan server Apache dan MySQL
- 3. Buka Command Promt dan log in sebagai root ke My SQL seperti pada langkah berikut.
- 4. Pilih database perbankan dengan perintah "use perbankan". Sehingga muncul pemberitahuan "database changed"

```
Command Prompt - mysql -u root -p
                                                                                                                                                              Microsoft Windows [Version 10.0.17134.648]
(c) 2018 Microsoft Corporation. All rights reserved.
 :\Users\ASUS-USER>cd\
 C:\>cd C:\xampp\mysql\bin
 :\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 7
Server version: 10.1.38-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)]> use perbankan
Database changed
MariaDB [perbankan]> show tables;
 Tables_in_perbankan
  cabang_bank
  nasabah
nasabah_has_rekening
  rekening
transaksi
  rows in set (0.00 sec)
```

5. Kemudian masukkan data-data berikut:

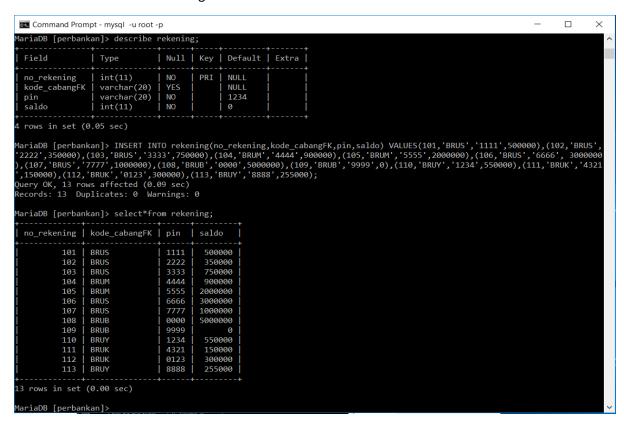
Tabel : nasabah



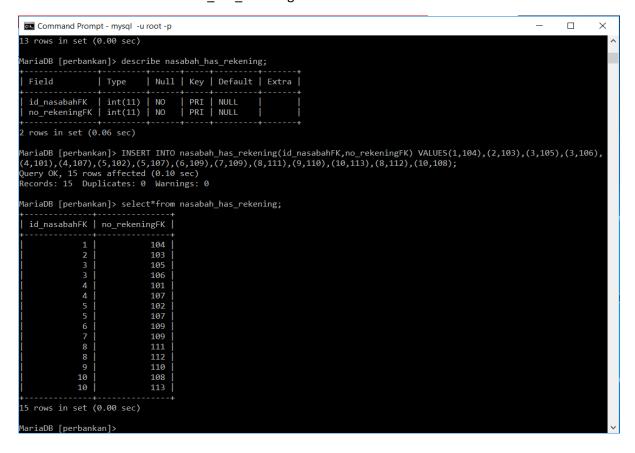
Tabel:cabank bank

```
lariaDB [perbankan]> describe cabang_bank;
                                                  | Null | Key | Default | Extra
  Field
                          Type
  kode_cabang
                            varchar(20)
                                                  l NO
                                                                PRI
  nama_cabang
                                                     NO
                                                                UNI
                                                                          NULL
  alamat_cabang | varchar(255) | NO
                                                                          NULL
  rows in set (0.04 sec)
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang,nama_cabang,alamat_cabang) VALUES('BRUS','Bank Rut Unit Surakarta',
'Jl. Slamet Riyadi 18'),('BRUM','Bank Rut Unit Magelang','Jl. P. Tendean 63'),('BRUB','Bank Rut Unit Boyolali','Jl. Ahmad Ya
ni 45'),('BRUK','Bank Rut Unit Klaten','Jl. Suparman 23'),('BRUY','Bank Rut Unit Yokyakarta','Jl. Anggrek 21'),('BRUW','Bank
Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 6 rows affected (0.10 sec)
Records: 6 Duplicates: 0 Warnings: 0
 lariaDB [perbankan]> select*from cabang_bank;
  kode_cabang | nama_cabang
                                                                   alamat_cabang
                         Bank Rut Unit Boyolali
Bank Rut Unit Klaten
  BRUB
                                                                     Jl. Ahmad Yani 45
                                                                     Jl. Suparman 23
  BRUK
                                                                     Jl. P. Tendean 63
Jl. Slamet Riyadi 18
                         Bank Rut Unit Magelang
  BRUM
                         Bank Rut Unit Surakarta
Bank Rut Unit Wonogiri
  BRUS
  BRUW
                                                                      Jl. Untung Suropati 12
  BRUY
                         Bank Rut Unit Yokyakarta
                                                                     Jl. Anggrek 21
  rows in set (0.00 sec)
 ariaDB [perbankan]>
```

♣ Tabel : rekening



Tabel : nasabah_has_rekening



♣ Tabel : transaksi

Field	Туре	Null	Key	Default	Extra
no transaksi	bigint(20) unsigned	NO	PRI	 NULL	auto increment
id_nasabahFK	int(11)	YES		NULL	_
no_rekeningFK	int(11)	YES		NULL	
jenis_transaksi	varchar(20)	NO		debit	
tanggal	datetime	NO		CURRENT_TIMESTAMP	
jumlah	int(11)	NO		NULL	

Command Prompt - mysql -u root -	·p					_		×
MariaDB [perbankan]> INSERT IN (1,105,3,'debit','2009-11-10', ,'debit','2009-11-13',50000),(it','2009-11-15',150000),(8,10 009-11-19',100000),(11,103,2,' -11-20',200000),(14,105,3,'deb 1-22',20000),(17,103,2,'debit',100000),(20,106,3,'kredit','200 (26,101,4,'debit','2009-12-4', 09,7,'debit','2009-12-5',10000 Query OK, 30 rows affected (0.) Records: 30 Duplicates: 0 Wa MariaDB [perbankan]> select*fr	50000),(2,103,2,5,107,5,'kredit',2,5,'debit','2009-debit','2009-11-21','2009-11-22',50','2009-11-27',50000',50000),(27,103,2,0),03,110,9,'dei08 sec) rnings: 0	'debit','2009-11-10,'2009-11-11,'2009-11-13',30000 9-11-16',20000),(9 19',100000),(12,10,40000),(15,104,1,40000),(18,102,5,'del),(21,103,2,'kredit','2009-12,'kredit','2009-12	0',40000),(3,101,4,'kr 0),(6,104,1,'kredit',': 105,3,'kredit','2009-1 4,1,'debit','2009-11-1: 'kredit','2009-11-25',5000 1','2009-11-25',200000 1','2009-11-28',200000 1'2009-12-1',50000),(25,5),	edit','200 2009-11-15 11-18',500 9',50000), 100000),(1 0),(19,108),(22,105,	9-11-12',2 ',200000), 00),(10,10 (13,107,4, 6,101,4,'k ,10,'debit 3,'kredit'	0000) (7,11) 7,4,' 'kredit redit ','200),(4,1 l0,9,' 'debit dit',' t','20 009-11 09-11- 2',400	06,3 kred ','2 2009 09-1 -26' 28',
+	+	+	+	++				
no_transaksi id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah				
1 3 2 2 4	103 101	debit debit debit kredit	2009-11-10 00:00:00 2009-11-10 00:00:00 2009-11-12 00:00:00	40000 20000				
4 3	106	debit kredit	2009-11-13 00:00:00	50000 30000				

+		+	+	+	+
1	3	105	debit	2009-11-10 00:00:00	
2	2	103	debit	2009-11-10 00:00:00	40000
3	4	101	kredit	2009-11-12 00:00:00	20000
4	3	106	debit	2009-11-13 00:00:00	50000
5	5	107	kredit	2009-11-13 00:00:00	30000
6	1	104	kredit	2009-11-15 00:00:00	200000
7	9	110	kredit	2009-11-15 00:00:00	150000
8	5	102	debit	2009-11-16 00:00:00	20000
9	3	105	kredit	2009-11-18 00:00:00	50000
10	4	107	debit	2009-11-19 00:00:00	100000
11	2	103	debit	2009-11-19 00:00:00	100000
12	1	104	debit	2009-11-19 00:00:00	50000
13	4	107	kredit	2009-11-20 00:00:00	200000
14	3	105	debit	2009-11-21 00:00:00	40000
15	1	104	kredit	2009-11-22 00:00:00	100000
16	4	101	kredit	2009-11-22 00:00:00	20000
17	2	103	debit	2009-11-22 00:00:00	50000
18	5	102	debit	2009-11-25 00:00:00	50000
19	10	108	debit	2009-11-26 00:00:00	100000
20	3	106	kredit	2009-11-27 00:00:00	50000
21	2	103	kredit	2009-11-28 00:00:00	200000
22	3	105	kredit	2009-11-28 00:00:00	100000
23	5	102	debit	2009-11-30 00:00:00	20000
24	1	104	debit	2009-12-01 00:00:00	50000
25	2	103	debit	2009-12-02 00:00:00	40000
26	4	101	debit	2009-12-04 00:00:00	50000
27	2	103	kredit	2009-12-05 00:00:00	100000
28	5	102	kredit	2009-12-05 00:00:00	200000
29	7	109	debit	2009-12-05 00:00:00	100000
30	9	110	debit	2009-12-06 00:00:00	20000
+		+	+	+	+

6. Lakukan untuk kasus-kasus berikut:

a. Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi No.34"

```
MariaDB [perbankan]> select*from nasabah;
  id_nasabah | nama_nasabah
                                          alamat_nasabah
                                             Jl. Jendral Sudirman 12
                   Maryati
                                             Jl. MT. Haryono 31
                                             Jl. Hasanudin 81
                   Suparman
                   Kartika Padmasari
                                             Jl. Manggis 15
                   Budi Eko Prayogo
                                             Jl. Kantil 30
                   Satria Eka Jaya
                                             Jl. Slamet Riyadi
                   Indri Hapsari
                                             Jl. Pangandaran
Jl. Tidar 86
                   Sari Murti
                  Canka Lokananta
            10 Budi Murtono
                                             Jl. Merak 22
 l0 rows in set (0.00 sec)
MariaDB [perbankan]> UPDATE nasbah set alamat_nasabah = 'Jalan Slamet Riyadi No.34' where nama_nasabah = 'Indri Hapsari';
ERROR 1146 (42502): Table 'perbankan.nasbah' doesn't exist
MariaDB [perbankan]> UPDATE nasabah set alamat_nasabah = 'Jalan Slamet Riyadi No.34' where nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.08 sec)
Rows matched: 1 Changed: 1 Warnings: 0
 MariaDB [perbankan]> select*from nasabah;
  id_nasabah | nama_nasabah
                                          alamat_nasabah
                                             Jl. Jendral Sudirman 12
                                             Jl. MT. Haryono 31
Jl. Hasanudin 81
                   Maryati
                  Suparman
                   Kartika Padmasari
                                             Jl. Manggis 15
                                             Jl. Kantil 30
                   Budi Eko Prayogo
                   Satria Eka Jaya
                                             Jl. Slamet Riyadi
                  Indri Hapsari
Sari Murti
                                             Jalan Slamet Riyadi No.34
                                             Jl. Pangandaran
                                             Jl. Tidar 86
                  Canka Lokananta
Budi Murtono
             10
                                             Jl. Merak 22
 l0 rows in set (0.00 sec)
 MariaDB [perbankan]>
```

b. Cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No.23"

```
MariaDB [perbankan]> select*from cabang_bank;
 kode_cabang | nama_cabang
                                                     | alamat cabang
                    Bank Rut Unit Boyolali
                                                     | Jl. Ahmad Yani 45
  BRUB
                   Bank Rut Unit Klaten
Bank Rut Unit Magelang
                                                       Jl. Suparman 23
Jl. P. Tendean 63
Jl. Slamet Riyadi 18
 BRUK
 BRUM
                    Bank Rut Unit Surakarta
 BRUS
                   Bank Rut Unit Wonogiri | Jl. Untung Suropati 12
Bank Rut Unit Yokyakarta | Jl. Anggrek 21
  BRUW
 rows in set (0.00 sec)
MariaDB [perbankan]> UPDATE cabang_bank SET alamat_cabang ='Jalan A. Yani No.23' WHERE kode_cabang ='BRUW';
Query OK, 1 row affected (0.08 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]> select*from cabang_bank;
 kode_cabang | nama_cabang
                                                     l alamat cabang
                    Bank Rut Unit Boyolali
                                                     | Jl. Ahmad Yani 45
 BRUK
                    Bank Rut Unit Klaten
                                                       Jl. Suparman 23
                   Bank Rut Unit Magelang
Bank Rut Unit Surakarta
Bank Rut Unit Wonogiri
                                                       Jl. P. Tendean 63
Jl. Slamet Riyadi 18
  BRUM
 BRUS
                                                       Jalan A. Yani No.23
  BRUW
                                                     Jl. Anggrek 21
                   Bank Rut Unit Yokyakarta
 rows in set (0.00 sec)
lariaDB [perbankan]>
```

- 7. Lakukan penghapusan untuk kasus-kasus berikut :
 - a. Nasabah dengan id "7" menutup rekeningnya

```
MariaDB [perbankan]> select*from nasabah;
  id_nasabah | nama_nasabah
                                        | alamat_nasabah
                                           Jl. Jendral Sudirman 12
                                          Jl. MT. Haryono 31
Jl. Hasanudin 81
                  Maryati
                  Suparman
                                          Jl. Manggis 15
                 .
Kartika Padmasari
                 Budi Eko Prayogo
                                           Jl. Kantil 30
                  Satria Eka Jaya
                                           Jl. Slamet Riyadi
                                          Jalan Slamet Riyadi No.34
Jl. Pangandaran
Jl. Tidar 86
                  Indri Hapsari
                  Sari Murti
            9 | Canka Lokananta
10 | Budi Murtono
                                          Jl. Merak 22
 l0 rows in set (0.00 sec)
MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah = 7;
Query OK, 1 row affected (0.07 sec)
 MariaDB [perbankan]> select*from nasabah;
  id_nasabah | nama_nasabah
                                        | alamat_nasabah
                                          Jl. Jendral Sudirman 12
                  Sutopo
                                          Jl. MT. Haryono 31
Jl. Hasanudin 81
                  Maryati
                 Suparman
                 Kartika Padmasari
                                           Jl. Manggis 15
                                          Jl. Kantil 30
Jl. Slamet Riyadi
Jl. Pangandaran
                  Budi Eko Prayogo
                 Satria Eka Jaya
Sari Murti
                  Canka Lokananta
                                           Jl. Tidar 86
                 Budi Murtono
                                          Jl. Merak 22
  rows in set (0.00 sec)
 |ariaDB [perbankan]
```

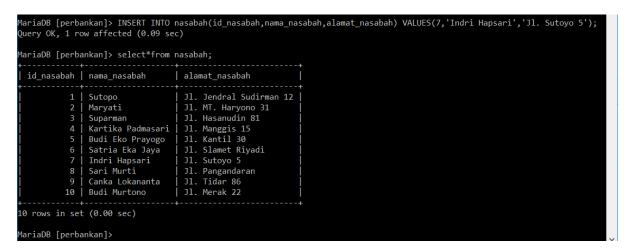
c. Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup kantornya

```
lariaDB [perbankan]> select*from cabang_bank;
 kode_cabang | nama_cabang
                                             alamat_cabang
                Bank Rut Unit Boyolali
 BRUB
                                              Jl. Ahmad Yani 45
                Bank Rut Unit Klaten
                                              Jl. Suparman 23
 BRUK
                Bank Rut Unit Magelang
                                              Jl. P. Tendean 63
 BRUM
                Bank Rut Unit Surakarta
Bank Rut Unit Wonogiri
 BRUS
                                              Jl. Slamet Riyadi 18
 BRUW
                                              Jalan A. Yani No.23
 BRUY
                Bank Rut Unit Yokyakarta
                                            | Jl. Anggrek 21
 rows in set (0.00 sec)
MariaDB [perbankan]> DELETE FROM cabang_bank WHERE nama_cabang ='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.10 sec)
MariaDB [perbankan]> select*from cabang_bank;
 kode_cabang | nama_cabang
                                            alamat_cabang
                                              Jl. Ahmad Yani 45
 BRUB
                Bank Rut Unit Boyolali
                                              Jl. Suparman 23
Jl. Slamet Riyadi 18
                Bank Rut Unit Klaten
 BRUK
                Bank Rut Unit Surakarta
 BRUS
                Bank Rut Unit Wonogiri
 BRUW
                                              Jalan A. Yani No.23
                                            Jl. Anggrek 21
 BRUY
                Bank Rut Unit Yokyakarta
 rows in set (0.00 sec)
ariaDB [perbankan]>
```

Tugas

Masukkan beberapa record ke setiap tabel dalam database yang telah anda buat pada modul 4. Print out hasil implementasi rancangan tersebut dan analisa hasilnya. (Masing-masing 10 record untuk tabel master dan 20 record untuk tabel transaksi)

♣ Tabel : nasabah



Tabel : cabang_bank

```
lariaDB [perbankan]> select*from cabang_bank;
 kode_cabang | nama_cabang
                 Bank Rut Unit Boyolali
Bank Rut Unit Cikarang
Bank Rut Unit Jakarta
                                                   Jl. Ahmad Yani 45
 BRUB
 BRUC
                                                    Jl. Karangjati 12
 BRUJ
                                                   Jl. Senayan 10
                 Bank Rut Unit Klaten
                                                    Jl. Suparman 23
 BRUL
                  Bank Rut Unit Lombok
                                                    Jl. Caturwarga 17
                 Bank Rut Unit Magelang
Bank Rut Unit Probolinggo
                                                    Jl. P Tendean 63
Jl. Edelweis Raya 20
 BRUM
 BRUP
                                                   Jl. Slamet Riyadi 18
                 Bank Rut Unit Surakarta
 BRUS
 BRUW
                  Bank Rut Unit Wonogiri
                                                    Jalan A. Yani No.23
                  Bank Rut Unit Yokyakarta
                                                    Jl. Anggrek 21
l0 rows in set (0.00 sec)
|ariaDB [perbankan]>
```

♣ Tabel : rekening

```
ariaDB [perbankan]> select*from rekening;
 no_rekening | kode_cabangFK | pin | saldo
                                         500000
               BRUS
                                         350000
                                3333
4444
         103
               BRUS
                                         750000
         104
                                         900000
               BRUM
               BRUM
                                        2000000
                BRUS
                                 6666
                                        3000000
               BRUS
                                        1000000
         108
               BRUB
                                 0000
                                        5000000
               BRUB
         109
                                 9999
                                              0
         110
               BRUY
                                         550000
l0 rows in set (0.00 sec)
ariaDB [perbankan]>
```

Tabel : nasabah_has_rekening

Tabel : transaksi

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi,no_rekeningFK,id_nasabahFK,jenis_transaksi,tanggal,jumlah) VALUE(18,102,5,'debit','2009-11-25',50000),(19,108,10,'debit','2009-11-26',100000),(20,106,3,'kredit','2009-11-27',50000);
Query OK, 3 rows affected (0.08 sec)
Records: 3 Duplicates: 0 Warnings: 0
MariaDB [perbankan]> select*from transaksi;
 no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal
                                                                                                                       | jumlah |
                                                          105
                                                                                           2009-11-10 00:00:00 |
                                                                 debit
                                                                                                                           50000
                                                                                           2009-11-10 00:00:00
                                                                 debit
                                                                                                                           40000
                                                                 kredit
                                                                                           2009-11-12 00:00:00
                                                                                                                           20000
                                                                                           2009-11-13 00:00:00
2009-11-13 00:00:00
2009-11-15 00:00:00
                                                                 debit
                                                                                                                           50000
                                                          107
                                                                 kredit
                                                                                                                           30000
                                                                 kredit
                                                                                                                          200000
                                                          104
                                                                                           2009-11-15 00:00:00
                                                                                                                          150000
                                                          110
                                                                 kredit
                 ,
8
9
                                                                                           2009-11-16 00:00:00
                                                                                                                           20000
                                                                 debit
                                                                 kredit
                                                                                           2009-11-18 00:00:00
                                                                                                                           50000
                                                                                           2009-11-19 00:00:00
2009-11-19 00:00:00
2009-11-19 00:00:00
               10
11
12
13
14
15
16
17
18
                                                                 debit
                                                                                                                          100000
                                                                 debit
                                                                                                                          100000
                                                          104
                                                                 debit
                                                                                                                          50000
                                                          107
                                                                 kredit
                                                                                           2009-11-20 00:00:00
                                                                                                                          200000
                                                                 debit
                                                                                           2009-11-21 00:00:00
                                                          104
                                                                  kredit
                                                                                           2009-11-22 00:00:00
                                                                                                                          100000
                                                                                           2009-11-22 00:00:00
2009-11-22 00:00:00
                                                                 kredit
                                                                                                                           20000
50000
                                                          103
                                                                 debit
                                                                                           2009-11-25 00:00:00
                                                                                                                           50000
                                                          102
                                                                 debit
                                                                                           2009-11-26 00:00:00
                                                          108
                                                                 debit
                                                                 kredit
                                                                                           2009-11-27 00:00:00
20 rows in set (0.00 sec)
MariaDB [perbankan]>
```