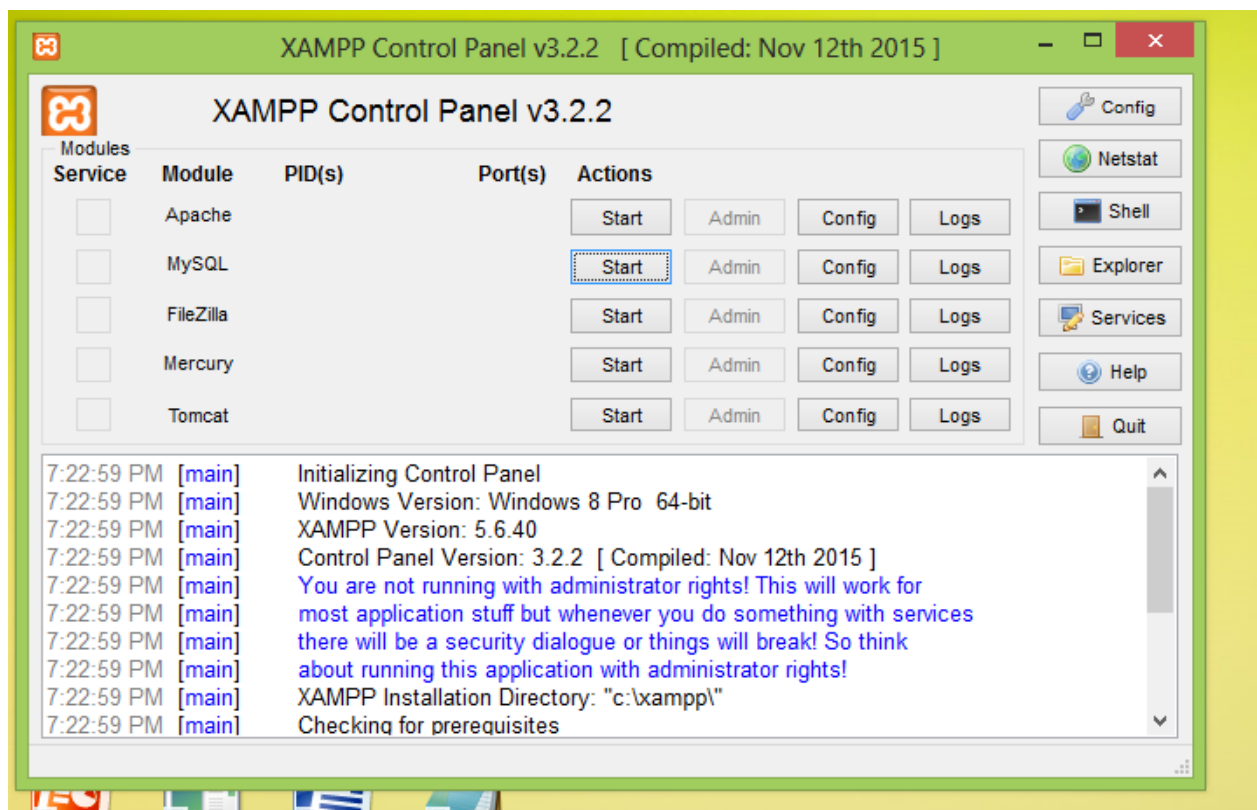


Hesti Putri Utami  
L200170009  
Kelas A

## MODUL 5 DATA MANIPULATION LANGUAGE (DML)

Langkah-langkah praktikum

1. Jalankan XAMPP Control Panel
2. Jalankan server Apache dan MySQL



3. Buka Command Prompt dan login sebagai root ke MySQL

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\LABSI-14>cd /
C:\>cd 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 42
Server version: 10.1.37-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.
```

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

```
MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah, no_ktp)
```

5. Kemudian masukan data-data berikut ini ke dalam database perbankan

### Tabel : nasabah

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\L0BSI-14>cd/
C:\>cd 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 42
Server version: 10.1.37-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]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
value
-> (1,'Sutopo', 'Jl. Jendral Sudirman'),
-> (2,'Maryati', 'Jl. MT. Haryono'),
-> (3,'Suparman', 'Jl. Hasanudin 81'),
-> (4,'Kartika Padmasari', 'Jl. Manggis 15'),
-> (5,'Budi Eko Prayogo', 'Jl. Kantil 30'),
-> (6,'Satria Eka Jaya', 'Jl. Slamet Riyadi 45'),
-> (7,'Indri Hapsari', 'Jl. Sutoyo 5'),
-> (8,'Sari Murti', 'Jl. Pangandaran 11'),
-> (9,'Canka Lokananta', 'Jl. Tidar 86'),
-> (10,'Budi Murtono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.04 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman |
| 2 | Maryati | Jl. MT. Haryono |
| 3 | Suparman | Jl. Hasanudin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko Prayogo | Jl. Kantil 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 7 | Indri Hapsari | Jl. Sutoyo 5 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.00 sec)
```

### Tabel : cabang\_bank

```
MariaDB [perbankan]> describe cabang_bank;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_cabang | varchar(20) | NO | PRI | NULL | |
| nama_cabang | varchar(45) | NO | UNI | NULL | |
| alamat_cabang | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
-> ('BRUV', 'Bank Rut Unit Wonogiri', 'Jl. Untung Surapati 12');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near '-ca
bang, alamat_cabang) value
('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Ri' at line 1
MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_ca
bang) value
-> ('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18'),
-> ('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tendea 63'),
-> ('BRUK', 'Bank Rut Unit Klaten', 'Jl. Ahmad Yani 45'),
-> ('BRUV', 'Bank Rut Unit Yogyakarta', 'Jl. Suparman 23'),
-> ('BRUV', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),
-> ('BRUV', 'Bank Rut Unit Wonogiri', 'Jl. Untung Surapati 12');
Query OK, 6 rows affected (0.04 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUV | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUM | Bank Rut Unit Magelang | Jl. P. Tendea 63 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUV | Bank Rut Unit Wonogiri | Jl. Untung Surapati 12 |
| BRUV | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

## Tabel : rekening

```
MariaDB [perbankan]> insert into cabang_bank(no_rekening, kode_cabang, pin, saldo) value
-> <101, 'BRUS', '1111', 500000>,
-> <102, 'BRUS', '2222', 350000>,
-> <103, 'BRUS', '3333', 750000>,
-> <104, 'BRUM', '4444', 900000>,
-> <105, 'BRUM', '5555', 2000000>,
-> <106, 'BRUS', '6666', 3000000>,
-> <107, 'BRUS', '7777', 1000000>,
-> <108, 'BRUB', '0000', 5000000>,
-> <109, 'BRUB', '9999', 0>,
-> <110, 'BRUY', '1234', 550000>,
-> <111, 'BRUK', '4321', 150000>,
-> <112, 'BRUK', '0123', 300000>,
-> <113, 'BRUY', '8888', 255000>;
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
-> <113, 'BRUY', '8888', 255000>;
Query OK, 13 rows affected (0.04 sec)
Records: 13 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from rekening;
+----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin   | saldo |
+----+-----+-----+-----+
| 101         | BRUS          | 1111  | 500000 |
| 102         | BRUS          | 2222  | 350000 |
| 103         | BRUS          | 3333  | 750000 |
| 104         | BRUM          | 4444  | 900000 |
| 105         | BRUM          | 5555  | 2000000 |
| 106         | BRUS          | 6666  | 3000000 |
| 107         | BRUS          | 7777  | 1000000 |
| 108         | BRUB          | 0000  | 5000000 |
| 109         | BRUB          | 9999  | 0       |
| 110         | BRUY          | 1234  | 550000 |
| 111         | BRUK          | 4321  | 150000 |
| 112         | BRUK          | 0123  | 300000 |
| 113         | BRUY          | 8888  | 255000 |
+----+-----+-----+-----+
13 rows in set (0.00 sec)

MariaDB [perbankan]> describe nasabah_has_rekening;
```

## Tabel : nasabah\_has\_rekening

```
MariaDB [perbankan]> describe nasabah_has_rekening;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| id_nasabahFK | int(11) | NO | PRI | NULL |
| no_rekeningFK | int(11) | NO | PRI | NULL |
+----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK, no_rekeningFK) value
-> <1, 104>,
-> <2, 103>,
-> <3, 105>,
-> <3, 106>,
-> <4, 101>,
-> <4, 107>,
-> <5, 102>,
-> <5, 107>,
-> <6, 109>,
-> <7, 109>,
-> <8, 111>,
-> <9, 110>,
-> <10, 113>,
-> <8, 112>,
-> <10, 108>;
Query OK, 15 rows affected (0.05 sec)
Records: 15 Duplicates: 0 Warnings: 0
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
+----+-----+-----+-----+
| 9 | Canka Lokananta | Jl.Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+----+-----+-----+-----+
10 rows in set (0.00 sec)

MariaDB [perbankan]> select * from nasabah_has_rekening;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'nasabah_has_rekening' at line 1
MariaDB [perbankan]> select * from nasabah_has_rekening;
+----+-----+
| id_nasabahFK | no_rekeningFK |
+----+-----+
| 1 | 104 |
| 2 | 103 |
| 3 | 105 |
| 3 | 106 |
| 4 | 101 |
| 4 | 107 |
| 5 | 102 |
| 5 | 107 |
| 6 | 109 |
| 7 | 109 |
| 8 | 111 |
| 8 | 112 |
| 9 | 110 |
| 10 | 108 |
| 10 | 113 |
+----+-----+
15 rows in set (0.00 sec)
```

## Tabel : transaksi

```
MariaDB [perbankan]> describe transaksi;
```

Field	Type	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	

```
6 rows in set (0.01 sec)

MariaDB [perbankan]>
```

```
Command Prompt - mysql -u root -p
-> (23,102,5,'debit','2009-12-1','50000'),
-> (24,104,1,'debit','2009-12-2','40000'),
-> (25,103,2,'debit','2009-12-4','50000'),
-> (26,101,4,'debit','2009-12-4','50000'),
-> (27,103,2,'kredit','2009-12-5','100000'),
-> (28,102,5,'kredit','2009-12-5','100000'),
-> (29,109,7,'debit','2009-12-5','100000'),
-> (30,110,9,'debit','2009-12-6','20000');
ERROR 1054 (4222): Unknown column 'no_rekening' in 'field list'
MariaDB [perbankan]> insert into transaksi(no_transaksi,no_rekeningFK, jenis_transaksi,tanggal,jumlah) value
-> (1,105,3,'debit','2009-11-10','50000'),
-> (2,101,2,'debit','2009-11-10','40000'),
-> (3,101,4,'kredit','2009-11-12','20000'),
-> (4,104,1,'debit','2009-11-13','50000'),
-> (5,107,5,'kredit','2009-11-13','10000'),
-> (6,104,1,'kredit','2009-11-15','200000'),
-> (7,110,9,'kredit','2009-11-15','150000'),
-> (8,102,5,'debit','2009-11-16','20000'),
-> (9,105,3,'kredit','2009-11-18','50000'),
-> (10,107,4,'debit','2009-11-19','100000'),
-> (11,103,2,'debit','2009-11-19','100000'),
-> (12,104,1,'debit','2009-11-19','50000'),
-> (13,107,4,'kredit','2009-11-20','20000'),
-> (14,105,3,'debit','2009-11-21','40000'),
-> (15,104,1,'kredit','2009-11-22','100000'),
-> (16,101,4,'kredit','2009-11-22','20000'),
-> (17,103,2,'debit','2009-11-22','50000'),
-> (18,102,5,'debit','2009-11-25','50000'),
-> (19,108,10,'debit','2009-11-26','100000'),
-> (20,105,3,'kredit','2009-11-27','50000'),
-> (21,103,2,'kredit','2009-11-28','20000'),
-> (22,105,3,'kredit','2009-11-30','20000'),
-> (23,102,5,'debit','2009-12-1','50000'),
-> (24,104,1,'debit','2009-12-2','40000'),
-> (25,103,2,'debit','2009-12-4','50000'),
-> (26,101,4,'debit','2009-12-4','50000'),
-> (27,103,2,'kredit','2009-12-5','100000'),
-> (28,102,5,'kredit','2009-12-5','100000'),
-> (29,109,7,'debit','2009-12-5','100000'),
-> (30,110,9,'debit','2009-12-6','20000');
Query OK, 30 rows affected (0.10 sec)
Records: 30 Duplicates: 0 Warnings: 0

MariaDB [perbankan]>
```

```
Command Prompt - mysql -u root -p
-> (28,102,5,'kredit','2009-12-5','200000'),
-> (29,109,7,'debit','2009-12-5','100000'),
-> (30,110,9,'debit','2009-12-6','20000');
Query OK, 30 rows affected (0.10 sec)
Records: 30 Duplicates: 0 Warnings: 0

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

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

```
30 rows in set (0.06 sec)

MariaDB [perbankan]>
```

# TUGAS

## Tabel : Nasabah

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

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah) value
-> (11,'Jessica','Jl. Gayam 2'),
-> (12,'Rahajeng','Jl. MT. Merbabu 9'),
-> (13,'Ilham','Jl. Rambutan 76'),
-> (14,'Nabila','Jl. Cernai 5'),
-> (15,'Abida','Jl. Munggun 13'),
-> (16,'Haidar','Jl. Lawu 43'),
-> (17,'Dheandita','Jl. Utara 7'),
-> (18,'Fahri','Jl. Akhir 1'),
-> (19,'Rian','Jl. Buntu 20'),
-> (20,'Gustin','Jl. Tanjung 32');
Query OK, 10 rows affected (0.12 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 Prayoga | Jl. Kantil 30 |
| 6 | Setria Eko Daya | Jl. Selamat Riyadi 45 |
| 7 | Indri Hapsari | Jl. Sutoyo5 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Martono | Jl. Merak 22 |
| 11 | Jessica | Jl. Gayam 2 |
| 12 | Rahajeng | Jl. MT. Merbabu 9 |
| 13 | Ilham | Jl. Rambutan 76 |
| 14 | Nabila | Jl. Cernai 5 |
| 15 | Abida | Jl. Munggun 13 |
| 16 | Haidar | Jl. Lawu 43 |
| 17 | Dheandita | Jl. Utara 7 |
| 18 | Fahri | Jl. Akhir 1 |
| 19 | Rian | Jl. Buntu 20 |
| 20 | Gustin | Jl. Tanjung 32 |
+-----+-----+-----+
20 rows in set (0.00 sec)

MariaDB [perbankan]>
```

## Tabel : cabang\_bank

```
Command Prompt - mysql -u root -p
-> ('BRUT', 'Bank Rut Unit Turki', 'Jl. Suropati 12'),
-> ('BRUL', 'Bank Rut Unit Los Angeles', 'Jl. Raya 8'),
-> ('BRUK', 'Bank Rut Unit Kanada', 'Jl. Imam Bonjol 2'),
-> ('BRUV', 'Bank Rut Unit Venezuela', 'Jl. Suara 21'),
-> ('BRUP', 'Bank Rut Unit Pakistan', 'Jl. Papua 456');
ERROR 1062 (23000): Duplicate entry 'BRUK' for key 'PRIMARY'
MariaDB [perbankan]> insert into cabang_bank(kode_cabang, nama_cabang, alamat_cabang) value
-> ('BRUA', 'Bank Rut Unit Arab', 'Jl. Slamet 18'),
-> ('BRUI', 'Bank Rut Unit Indonesia', 'Jl. Soekarno 3'),
-> ('BRUU', 'Bank Rut Unit USA', 'Jl. Ahmad 5'),
-> ('BRUE', 'Bank Rut Unit Etiopia', 'Jl. Abadi 2'),
-> ('BRUO', 'Bank Rut Unit Oman', 'Jl. Mawar 21'),
-> ('BRUT', 'Bank Rut Unit Turki', 'Jl. Suropati 12'),
-> ('BRUL', 'Bank Rut Unit Los Angeles', 'Jl. Raya 8'),
-> ('BRUZ', 'Bank Rut Unit Ziggy', 'Jl. Imam Bonjol 2'),
-> ('BRUV', 'Bank Rut Unit Venezuela', 'Jl. Suara 21'),
-> ('BRUP', 'Bank Rut Unit Pakistan', 'Jl. Papua 456');
Query OK, 10 rows affected (0.17 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select*from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUA | Bank Rut Unit Arab | Jl. Slamet 18 |
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUE | Bank Rut Unit Etiopia | Jl. Abadi 2 |
| BRUI | Bank Rut Unit Indonesia | Jl. Soekarno 3 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUL | Bank Rut Unit Los Angeles | Jl. Raya 8 |
| BRUM | Bank Rut Unit Magelang | Jl. P. Tendeau 63 |
| BRUO | Bank Rut Unit Oman | Jl. Mawar 21 |
| BRUP | Bank Rut Unit Pakistan | Jl. Papua 456 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUT | Bank Rut Unit Turki | Jl. Suropati 12 |
| BRUU | Bank Rut Unit USA | Jl. Ahmad 5 |
| BRUV | Bank Rut Unit Venezuela | Jl. Suara 21 |
| BRUM | Bank Rut Unit Wonogiri | Jl. Untung Suropti 12 |
| BRUV | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
| BRUZ | Bank Rut Unit Ziggy | Jl. Imam Bonjol 2 |
+-----+-----+-----+
16 rows in set (0.00 sec)

MariaDB [perbankan]>
```

## Tabel : rekening

```
Command Prompt - mysql -u root -p
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> Delete from rekening
-> where no_rekening = '123';
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabangFK, pin, saldo) value
-> (114, 'BRUA', '4511', 570000),
-> (115, 'BRUI', '1222', 350000),
-> (116, 'BRUU', '3893', 750000),
-> (117, 'BRUE', '2344', 2300000),
-> (118, 'BRUO', '6755', 290000),
-> (119, 'BRUT', '6996', 3000000),
-> (120, 'BRUL', '7577', 1670000),
-> (121, 'BRUV', '0880', 556000),
-> (122, 'BRUP', '9119', 90000),
-> (123, 'BRUZ', '1234', 550000);
Query OK, 10 rows affected (0.11 sec)
Records: 10 Duplicates: 0 Warnings: 0

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

no_rekening	kode_cabangFK	pin	saldo
101	BRUS	1111	500000
102	BRUS	2222	350000
103	BRUS	3333	750000
104	BRUM	4444	900000
105	BRUM	5555	2000000
106	BRUS	6666	3000000
107	BRUS	7777	1000000
108	BRUB	0	50000000
109	BRUB	9999	0
110	BRUY	1234	550000
111	BRUK	4321	150000
112	BRUK	123	300000
113	BRUY	8888	255000
114	BRUA	4511	570000
115	BRUI	1222	350000
116	BRUU	3893	750000
117	BRUE	2344	2300000
118	BRUO	6755	290000
119	BRUT	6996	3000000
120	BRUL	7577	1670000

```
Command Prompt - mysql -u root -p
-> (120, 'BRUL', '7577', 1670000),
-> (121, 'BRUV', '0880', 556000),
-> (122, 'BRUP', '9119', 90000),
-> (123, 'BRUZ', '1234', 550000);
Query OK, 10 rows affected (0.11 sec)
Records: 10 Duplicates: 0 Warnings: 0

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

no_rekening	kode_cabangFK	pin	saldo
101	BRUS	1111	500000
102	BRUS	2222	350000
103	BRUS	3333	750000
104	BRUM	4444	900000
105	BRUM	5555	2000000
106	BRUS	6666	3000000
107	BRUS	7777	1000000
108	BRUB	0	50000000
109	BRUB	9999	0
110	BRUY	1234	550000
111	BRUK	4321	150000
112	BRUK	123	300000
113	BRUY	8888	255000
114	BRUA	4511	570000
115	BRUI	1222	350000
116	BRUU	3893	750000
117	BRUE	2344	2300000
118	BRUO	6755	290000
119	BRUT	6996	3000000
120	BRUL	7577	1670000
121	BRUV	0880	556000
122	BRUP	9119	90000
123	BRUZ	1234	550000

23 rows in set (0.00 sec)

MariaDB [perbankan]>

## Tabel : nasabah\_has\_rekening

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

104 | BRUM | 4444 | 900000 |
105 | BRUM | 5555 | 2000000 |
106 | BRUS | 6666 | 3000000 |
107 | BRUS | 7777 | 1000000 |
108 | BRUB | 0 | 5000000 |
109 | BRUB | 9999 | 0 |
110 | BRUY | 1234 | 550000 |
111 | BRUK | 4321 | 150000 |
112 | BRUK | 123 | 300000 |
113 | BRUY | 8888 | 255000 |
114 | BRUA | 4511 | 570000 |
115 | BRUI | 1222 | 350000 |
116 | BRUJ | 3893 | 750000 |
117 | BRUE | 2344 | 2300000 |
118 | BRUD | 6755 | 290000 |
119 | BRUT | 6996 | 3000000 |
120 | BRUL | 7577 | 1670000 |
121 | BRUV | 0880 | 556000 |
122 | BRUP | 9119 | 90000 |
123 | BRUZ | 1234 | 550000 |

23 rows in set (0.00 sec)

MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK) value
-> (10,111),
-> (5,123),
-> (3,115),
-> (6,117),
-> (4,119),
-> (7,121),
-> (7,120),
-> (5,118),
-> (2,115),
-> (0,118);
Query OK, 10 rows affected (0.07 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select*from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1 | 104 |
| 2 | 103 |
| 2 | 115 |
```

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

-> (3,115),
-> (6,117),
-> (4,119),
-> (7,121),
-> (7,120),
-> (5,118),
-> (2,115),
-> (0,118);
Query OK, 10 rows affected (0.07 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select*from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1 | 104 |
| 2 | 103 |
| 2 | 115 |
| 3 | 105 |
| 3 | 106 |
| 3 | 115 |
| 4 | 101 |
| 4 | 107 |
| 4 | 119 |
| 5 | 102 |
| 5 | 107 |
| 5 | 116 |
| 5 | 123 |
| 6 | 109 |
| 6 | 117 |
| 7 | 109 |
| 7 | 120 |
| 7 | 121 |
| 8 | 111 |
| 8 | 112 |
| 9 | 110 |
| 9 | 118 |
| 10 | 108 |
| 10 | 111 |
| 10 | 113 |

25 rows in set (0.00 sec)

MariaDB [perbankan]>
```



## Tabel : rekening

Command Prompt - mysql -u root -p

5	102
5	107
5	116
5	123
6	109
6	117
7	109
7	120
7	121
8	111
8	112
9	110
9	118
10	108
10	111
10	113

25 rows in set (0.00 sec)

MariaDB [perbankan]> insert into transaksi(no\_transaksi,no\_rekeningFK,id\_nasabahFK,jenis\_transaksi,tanggal,jumlah) value

```
-> (31,107,1,'debit','2010-01-11','500000'),
-> (32,104,3,'debit','2010-01-11','4000'),
-> (33,105,5,'kredit','2010-01-12','330000'),
-> (34,106,5,'debit','2010-01-13','300000'),
-> (35,107,5,'kredit','2010-01-13','45000'),
-> (36,104,1,'kredit','2010-01-15','230000'),
-> (37,110,7,'kredit','2010-01-15','220000'),
-> (38,106,5,'debit','2010-01-16','20000'),
-> (39,105,3,'kredit','2010-01-18','50000'),
-> (40,109,9,'debit','2010-01-19','100000'),
-> (41,104,7,'debit','2010-02-10','100000'),
-> (42,104,1,'debit','2010-02-11','50000'),
-> (43,104,4,'kredit','2010-02-11','200000'),
-> (44,108,3,'debit','2010-02-23','40000'),
-> (45,102,1,'kredit','2010-02-24','100000'),
-> (46,101,5,'kredit','2010-02-24','400000'),
-> (47,103,3,'debit','2010-02-27','500000'),
-> (48,102,7,'debit','2010-03-10','53000'),
-> (49,106,3,'debit','2010-03-11','100000'),
-> (50,107,4,'kredit','2010-03-11','340000');
```

Query OK, 20 rows affected (0.13 sec)

Records: 20 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select\*from transaksi

Command Prompt - mysql -u root -p

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah
1	3	105	debit	2009-11-10 00:00:00	50000
2	2	103	debit	2009-11-10 00:00:00	40000
3	4	101	kredit	2009-11-12 00:00:00	20000
4	3	106	debit	2009-11-13 00:00:00	50000
5	5	107	kredit	2009-11-13 00:00:00	30000
6	1	104	kredit	2009-11-15 00:00:00	200000
7	9	110	kredit	2009-11-15 00:00:00	150000
8	5	102	debit	2009-11-16 00:00:00	20000
9	3	105	kredit	2009-11-18 00:00:00	50000
10	4	107	debit	2009-11-19 00:00:00	100000
11	2	103	debit	2009-11-19 00:00:00	100000
12	1	104	debit	2009-11-19 00:00:00	50000
13	4	107	kredit	2009-11-20 00:00:00	200000
14	3	105	debit	2009-11-21 00:00:00	40000
15	1	104	kredit	2009-11-22 00:00:00	100000
16	4	101	kredit	2009-11-22 00:00:00	20000
17	2	103	debit	2009-11-22 00:00:00	50000
18	5	102	debit	2009-11-25 00:00:00	50000
19	10	108	debit	2009-11-26 00:00:00	100000
20	3	106	kredit	2009-11-27 00:00:00	50000
21	2	103	kredit	2009-11-28 00:00:00	20000
22	3	105	kredit	2009-11-30 00:00:00	20000
23	5	102	debit	2009-12-01 00:00:00	50000
24	1	104	debit	2009-12-02 00:00:00	40000
25	2	103	debit	2009-12-04 00:00:00	50000
26	4	101	debit	2009-12-04 00:00:00	50000
27	2	103	kredit	2009-12-05 00:00:00	100000
28	5	102	kredit	2009-12-05 00:00:00	200000
29	7	109	debit	2009-12-05 00:00:00	100000
30	9	110	debit	2009-12-06 00:00:00	20000
31	1	107	debit	2010-01-11 00:00:00	500000
32	3	104	debit	2010-01-11 00:00:00	4000
33	5	105	kredit	2010-01-12 00:00:00	330000
34	5	106	debit	2010-01-13 00:00:00	30000
35	5	107	kredit	2010-01-13 00:00:00	45000
36	1	104	kredit	2010-01-15 00:00:00	230000
37	7	110	kredit	2010-01-15 00:00:00	220000
38	5	106	debit	2010-01-16 00:00:00	20000
39	3	105	kredit	2010-01-18 00:00:00	50000
40	9	109	debit	2010-01-19 00:00:00	100000
41	7	104	debit	2010-02-10 00:00:00	100000
42	1	104	debit	2010-02-11 00:00:00	50000



Command Prompt - mysql -u root -p

13	4	107	credit	2009-11-20 00:00:00	200000
14	3	105	debit	2009-11-21 00:00:00	40000
15	1	104	credit	2009-11-22 00:00:00	100000
16	4	101	credit	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	credit	2009-11-27 00:00:00	50000
21	2	103	credit	2009-11-28 00:00:00	20000
22	3	105	credit	2009-11-30 00:00:00	20000
23	5	102	debit	2009-12-01 00:00:00	50000
24	1	104	debit	2009-12-02 00:00:00	40000
25	2	103	debit	2009-12-04 00:00:00	50000
26	4	101	debit	2009-12-04 00:00:00	50000
27	2	103	credit	2009-12-05 00:00:00	100000
28	5	102	credit	2009-12-05 00:00:00	200000
29	7	109	debit	2009-12-05 00:00:00	100000
30	9	110	debit	2009-12-06 00:00:00	20000
31	1	107	debit	2010-01-11 00:00:00	500000
32	3	104	debit	2010-01-11 00:00:00	4000
33	5	105	credit	2010-01-12 00:00:00	330000
34	5	106	debit	2010-01-13 00:00:00	30000
35	5	107	credit	2010-01-13 00:00:00	45000
36	1	104	credit	2010-01-15 00:00:00	230000
37	7	110	credit	2010-01-15 00:00:00	220000
38	5	106	debit	2010-01-16 00:00:00	20000
39	3	105	credit	2010-01-18 00:00:00	50000
40	9	109	debit	2010-01-19 00:00:00	100000
41	7	104	debit	2010-02-10 00:00:00	100000
42	1	104	debit	2010-02-11 00:00:00	50000
43	4	104	credit	2010-02-11 00:00:00	200000
44	3	108	debit	2010-02-23 00:00:00	40000
45	1	102	credit	2010-02-24 00:00:00	100000
46	5	101	credit	2010-02-24 00:00:00	4000000
47	3	103	debit	2010-02-27 00:00:00	560000
48	7	102	debit	2010-03-10 00:00:00	53000
49	3	106	debit	2010-03-11 00:00:00	100000
50	4	107	credit	2010-03-11 00:00:00	340000

50 rows in set (0.00 sec)