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Modul 5

A. Kegiatan Praktikum

1. Tabel nasabah

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.476]
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C:\Users\ASUS>cd ../..
C:\>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 8
Server version: 10.4.11-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) VALUES
    -> (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, 'Canki Lokananta', 'Jl. Tidar 86'),
    -> (10, 'Budi Martono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.309 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 |
| 7 | Indri Hapsari | Jl. Sutoyo 5 |
+----+-----+-----+
```

```

C:\ Command Prompt - mysql -u root -p
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) VALUES
    --> (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 Lokananta', 'Jl. Tidar 86'),
    --> (10, 'Budi Martono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.309 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 |
| 7 | Indri Hapsari | Jl. Sutoyo 5 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Martono | Jl. Merak 22 |
+----+-----+-----+
10 rows in set (0.007 sec)

MariaDB [perbankan]> -

```

```

C:\ Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
    --> ('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45'),
    --> ('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tendean 63'),
    --> ('BRUK', 'Bank Rut Unit Klaten', 'Jl. Ahmad Yani 45'),
    --> ('BRUX', 'Bank Rut Unit Klaten', 'Jl. Suparman 23'),
    --> ('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggerek 21'),
    --> ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12');
Query OK, 6 rows affected (0.234 sec)
Records: 6 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUM | Bank Rut Unit Magelang | Jl. P. Tendean 63 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUX | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggerek 21 |
| BRUW | Bank Rut Unit Wonogiri | Jl. Untung Suropati 12 |
+----+-----+-----+
6 rows in set (0.001 sec)

MariaDB [perbankan]> -

```

3. Tabel rekening

```

C:\ Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES
-> (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);
Query OK, 13 rows affected (0.175 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 (0.001 sec)

MariaDB [perbankan]>
```

```

C:\ Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES
-> (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 (0.159 sec)
Records: 15 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 | 107 |
| 5 | 102 |
| 5 | 107 |
| 6 | 109 |
| 7 | 109 |
| 8 | 111 |
| 8 | 112 |
| 9 | 110 |
| 10 | 108 |
| 10 | 113 |
+-----+-----+
15 rows in set (0.001 sec)

MariaDB [perbankan]>
```

5. Tabel transaksi

```
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
--> (1, 105, 3, 'debit', '2009-11-10', 50000),
--> (2, 103, 2, 'debit', '2009-11-10', 40000),
--> (3, 101, 4, 'kredit', '2009-11-12', 20000),
--> (4, 106, 3, 'debit', '2009-11-13', 50000),
--> (5, 107, 5, 'kredit', '2009-11-13', 30000),
--> (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', 200000),
--> (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, 106, 3, 'kredit', '2009-11-27', 50000),
--> (21, 103, 2, 'kredit', '2009-11-28', 200000),
--> (22, 105, 3, 'kredit', '2009-11-28', 100000),
--> (23, 102, 5, 'debit', '2009-11-30', 20000),
--> (24, 104, 1, 'debit', '2009-12-1', 50000),
--> (25, 103, 2, 'debit', '2009-12-2', 40000),
--> (26, 101, 4, 'debit', '2009-12-4', 50000),
--> (27, 103, 2, 'kredit', '2009-12-5', 100000),
--> (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 (0.236 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 |
+-----+-----+-----+-----+-----+
```

```
MariaDB [perbankan]> 
--> (29, 109, 7, 'debit', '2009-12-5', 100000),
--> (30, 110, 9, 'debit', '2009-12-6', 20000);
Query OK, 30 rows affected (0.236 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 | 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 |
+-----+-----+-----+-----+-----+
```

30 rows in set (0.001 sec)

6. Lakukan update untuk kasus berikut:

- Nasabah nama 'Indri Hapsari' pindah kealamat 'Jalan Slamet Riyadi No.34'
- cabang dengan kode 'BRUW' pindah ke alamat 'Jalan . Yani No. 23'

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

MariaDB [perbankan]> UPDATE nasabah
    -> SET alamat_nasabah = 'Jl. Slamet Riyadi 34'
    -> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.197 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank
    -> SET alamat_cabang = 'Jl. A. Yani 23'
    -> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.160 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 Lokananta | Jl. Tidar 86 |
| 10 | Budi Martono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.001 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 |
| BRUM | Bank Rut Unit Magelang | Jl. P. Tendeen 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 (0.001 sec)

MariaDB [perbankan]>
```

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

MariaDB [perbankan]> delete from nasabah where id_nasabah = 7;
Query OK, 1 row affected (0.154 sec)
MariaDB [perbankan]> delete from cabang_bank where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.097 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 |
| 7 | Indri Hapsari | null |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Martono | Jl. Merak 22 |
+-----+-----+-----+
9 rows in set (0.001 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 (0.001 sec)

MariaDB [perbankan]>
```

B. Tugas

1. Tabel nasabah

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES
-> (11, 'Candra', 'Jl. Beo 1'),
-> (12, 'Jecky', 'Jl. Beo 2'),
-> (13, 'Nasir', 'Jl. Beo 3'),
-> (14, 'Anto', 'Jl. Beo 4'),
-> (15, 'Anton', 'Jl. Beo 5'),
-> (16, 'Ilham', 'Jl. Beo 6'),
-> (17, 'Ardi', 'Jl. Merak 1'),
-> (18, 'Miqdad', 'Jl. Merak 2'),
-> (19, 'Bram', 'Jl. Merak 3'),
-> (20, 'Angga', 'Jl. Merak 4');
Query OK, 10 rows affected (0.145 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 | Satyria Eka Jaya | Jl. Slamet Riyadi 45 |
| 7 | Sari Murti | Jl. Pangandaran 11 |
| 8 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Martono | Jl. Merak 22 |
| 11 | Candra | Jl. Beo 1 |
| 12 | Jecky | Jl. Beo 2 |
| 13 | Nasir | Jl. Beo 3 |
| 14 | Anto | Jl. Beo 4 |
| 15 | Anton | Jl. Beo 5 |
| 16 | Ilham | Jl. Beo 6 |
| 17 | Ardi | Jl. Merak 1 |
| 18 | Mqdad | Jl. Merak 2 |
| 19 | Bram | Jl. Merak 3 |
| 20 | Angga | Jl. Merak 4 |
+-----+-----+-----+
19 rows in set (0.001 sec)

MariaDB [perbankan]>
```

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
-> ('BRUMS', 'Bank Rut Unit UMS', 'Jl. Elang Mas 1'),
-> ('BRUKR', 'Bank Rut Unit Karawang', 'Jl. Badak 34'),
-> ('BRUKS', 'Bank Rut Unit Slraged', 'Jl. Singa 13'),
-> ('BRUKD', 'Bank Rut Unit Kediri', 'Jl. Hasanudin 99'),
-> ('BRUSM', 'Bank Rut Unit Semarang', 'Jl. Menteng 15'),
-> ('BRUP1', 'Bank Rut Unit Pati', 'Jl. Singa 87'),
-> ('BRUPW', 'Bank Rut Unit Purwodadi', 'Jl. Kucing 65'),
-> ('BRUJ', 'Bank Rut Unit Jepara', 'Jl. Keong Mas 43'),
-> ('BRUKN', 'Bank Rut Unit Kendal', 'Jl. Empirit 56'),
-> ('BRUNG', 'Bank Rut Unit Magetan', 'Jl. Kakaktua 23');
Query OK, 10 rows affected (0.041 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUJ | Bank Rut Unit Jepara | Jl. Keong Mas 43 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUKD | Bank Rut Unit Kediri | Jl. Hasanudin 99 |
| BRUKN | Bank Rut Unit Kendal | Jl. Empirit 56 |
| BRUKR | Bank Rut Unit Karanganyar | Jl. Badak 34 |
| BRUNG | Bank Rut Unit Magetan | Jl. Kakaktua 23 |
| BRUMS | Bank Rut Unit UMS | Jl. Elang Mas 1 |
| BRUP | Bank Rut Unit Pati | Jl. Singa 87 |
| BRUPW | Bank Rut Unit Purwodadi | Jl. Kucing 65 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUSM | Bank Rut Unit Semarang | Jl. Menteng 15 |
| BRUSR | Bank Rut Unit Slraged | Jl. Singa 13 |
| BRW | Bank Rut Unit Wonogiri | Jl. A. Yani 23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
15 rows in set (0.001 sec)

MariaDB [perbankan]>
```

3. Tabel rekening

```

C:\ Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES
-> (114, 'BRUMS', '2456', 124000),
-> (115, 'BRUPW', '8901', 235000),
-> (116, 'BRUKN', '1235', 54000),
-> (117, 'BRUKN', '0875', 90000),
-> (118, 'BRUS', '4680', 678000),
-> (119, 'BRUMG', '1345', 124000),
-> (120, 'BRUKR', '1267', 654000),
-> (121, 'BRUKD', '3478', 87000),
-> (122, 'BRUKD', '6453', 976000),
-> (123, 'BRUB', '7615', 144000);
Query OK, 10 rows affected (0.039 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 | 0000 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUMS | 2456 | 124000 |
| 115 | BRUPW | 8901 | 235000 |
| 116 | BRUKN | 1235 | 54000 |
| 117 | BRUKN | 0875 | 90000 |
| 118 | BRUS | 4680 | 678000 |
| 119 | BRUMG | 1345 | 124000 |
| 120 | BRUKR | 1267 | 654000 |
| 121 | BRUKD | 3478 | 87000 |
| 122 | BRUKD | 6453 | 976000 |
| 123 | BRUB | 7615 | 144000 |
+-----+-----+-----+-----+
23 rows in set (0.001 sec)

Windows Taskbar: cmd, File Explorer, Edge, FileZilla, File Manager, Task View, Taskbar Icons, Taskbar Buttons, Taskbar Notifications, Taskbar Search, Taskbar Address Bar, Taskbar Start Button, Taskbar System Icons, Taskbar Volume Control, Taskbar Battery Status, Taskbar Network Status, Taskbar Date and Time

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C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Query OK, 1 row affected (0.047 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (21, 102, 2, 'debit', '2020-01-02', 200000);
ERROR 1062 (23000): Duplicate entry '21' for key 'PRIMARY'
MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (31, 102, 2, 'debit', '2020-01-02', 200000);
ERROR 1062 (23000): Duplicate entry '31' for key 'PRIMARY'
MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (32, 102, 2, 'debit', '2020-01-02', 200000);
Query OK, 1 row affected (0.034 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (33, 103, 3, 'debit', '2020-01-03', 300000);
Query OK, 1 row affected (0.030 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (34, 104, 4, 'debit', '2020-01-04', 400000);
Query OK, 1 row affected (0.033 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (35, 105, 5, 'debit', '2020-01-05', 500000);
Query OK, 1 row affected (0.037 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (36, 106, 6, 'debit', '2020-01-06', 600000);
Query OK, 1 row affected (0.035 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (37, 107, 7, 'debit', '2020-01-07', 700000);
Query OK, 1 row affected (0.026 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (38, 108, 8, 'debit', '2020-01-08', 700000);
Query OK, 1 row affected, 1 warning (0.034 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (39, 109, 9, 'debit', '2020-01-09', 900000);
Query OK, 1 row affected (0.036 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (40, 110, 10, 'debit', '2020-01-10', 1000000);
Query OK, 1 row affected (0.031 sec)

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C:\WINDOWS\system32\cmd.exe - mysql -u root -p
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (41, 11, 10, 'debit', '2020-01-10', 1000000);
Query OK, 1 row affected (0.041 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (42, 102, 12, 'kredit', '2020-01-12', 200000);
Query OK, 1 row affected (0.041 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (43, 103, 13, 'kredit', '2020-01-13', 300000);
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (44, 103, 14, 'kredit', '2020-01-14', 400000);
Query OK, 1 row affected (0.036 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (45, 105, 15, 'kredit', '2020-01-15', 500000);
Query OK, 1 row affected (0.031 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (46, 106, 16, 'kredit', '2020-01-16', 600000);
Query OK, 1 row affected (0.032 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (47, 107, 17, 'kredit', '2020-01-17', 700000);
Query OK, 1 row affected (0.037 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (48, 108, 18, 'kredit', '2020-01-18', 800000);
Query OK, 1 row affected (0.039 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (49, 109, 19, 'kredit', '2020-01-19', 900000);
Query OK, 1 row affected (0.037 sec)

MariaDB [perbankan]> insert into transaksi(no_transaksi, id_nasabahFK, no_rekeningFK, jenis_transaksi, tanggal, jumlah)
values (50, 110, 20, 'kredit', '2020-01-20', 1000000);
Query OK, 1 row affected (0.031 sec)

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

C:\WINDOWS\system32\cmd.exe - mysql -u root -p

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	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
31	101	1	debit	2020-01-01 00:00:00	100000
32	102	2	debit	2020-01-02 00:00:00	200000
33	103	3	debit	2020-01-03 00:00:00	300000
34	104	4	debit	2020-01-04 00:00:00	400000
35	105	5	debit	2020-01-05 00:00:00	500000
36	106	6	debit	2020-01-06 00:00:00	600000
37	107	7	debit	2020-01-07 00:00:00	700000
38	108	8	debit	0000-00-00 00:00:00	700000
39	109	9	debit	2020-01-09 00:00:00	900000
40	110	10	debit	2020-01-10 00:00:00	1000000
41	11	10	debit	2020-01-10 00:00:00	1000000
42	102	12	kredit	2020-01-12 00:00:00	200000
43	103	13	kredit	2020-01-13 00:00:00	300000
44	103	14	kredit	2020-01-14 00:00:00	400000
45	105	15	kredit	2020-01-15 00:00:00	500000
46	106	16	kredit	2020-01-16 00:00:00	600000
47	107	17	kredit	2020-01-17 00:00:00	700000
48	108	18	kredit	2020-01-18 00:00:00	800000
49	109	19	kredit	2020-01-19 00:00:00	900000
50	110	20	kredit	2020-01-20 00:00:00	1000000

C:\WINDOWS\system32\cmd.exe - mysql -u root -p

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
31	101	1	debit	2020-01-01 00:00:00	100000
32	102	2	debit	2020-01-02 00:00:00	200000
33	103	3	debit	2020-01-03 00:00:00	300000
34	104	4	debit	2020-01-04 00:00:00	400000
35	105	5	debit	2020-01-05 00:00:00	500000
36	106	6	debit	2020-01-06 00:00:00	600000
37	107	7	debit	2020-01-07 00:00:00	700000
38	108	8	debit	0000-00-00 00:00:00	700000
39	109	9	debit	2020-01-09 00:00:00	900000
40	110	10	debit	2020-01-10 00:00:00	1000000
41	11	10	debit	2020-01-10 00:00:00	1000000
42	102	12	kredit	2020-01-12 00:00:00	200000
43	103	13	kredit	2020-01-13 00:00:00	300000
44	103	14	kredit	2020-01-14 00:00:00	400000
45	105	15	kredit	2020-01-15 00:00:00	500000
46	106	16	kredit	2020-01-16 00:00:00	600000
47	107	17	kredit	2020-01-17 00:00:00	700000
48	108	18	kredit	2020-01-18 00:00:00	800000
49	109	19	kredit	2020-01-19 00:00:00	900000
50	110	20	kredit	2020-01-20 00:00:00	1000000