

PRACTICUM DATABASE SYSTEM

MODUL 5

DATABASE SYSTEM



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INFORMATION TECHNOLOGY

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#Latian

```
XAMPP for Windows - mysql -u root

Setting environment for using XAMPP for Windows.
donny@DONNY c:\xampp
# mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 1424
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]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| rekening             |
| transaksi            |
+-----+
5 rows in set (0.001 sec)

MariaDB [perbankan]> INSERT INTO `cabang_bank` (`kode_cabang`, `nama_cabang`, `alamat_cabang`) VALUES('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45'),('BRUK', 'Bank Rut Unit Klaten', 'Jl. Superman 23'),('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tondan 63'),('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18'),('BRUM', 'Bank Rut Unit Wonogiri', 'Jl. Untung Surapati 12'),('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21');
Query OK, 6 rows affected (0.008 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 |
| BRUK       | Bank Rut Unit Klaten  | Jl. Superman 23  |
| BRUM       | Bank Rut Unit Magelang | Jl. P. Tondan 63  |
| BRUS       | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUM       | Bank Rut Unit Wonogiri | Jl. Untung Surapati 12 |
| BRUY       | Bank Rut Unit Yogyakarta | Jl. Anggrek 21  |
+-----+-----+-----+
6 rows in set (0.000 sec)
```

Pict 1. Cabang_bank Table

```
XAMPP for Windows - mysql -u root

6 rows in set (0.000 sec)

MariaDB [perbankan]> INSERT INTO `nasabah` (`id_nasabah`, `nama_nasabah`, `alamat_nasabah`) VALUES(1, 'Sutopo', 'Jl. Jendral Sudirman'),(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, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45'),(7, 'Indri Hapsari', 'Jl. Sutoyo 5'),(8, 'Sari Murti', 'Jl. Pangandaran 11'),(9, 'Canka Lokonanta', 'Jl. Tidar 95'),(10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 10 rows affected (0.010 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 31  |
| 3          | Suparman          | Jl.Hasanudin 81   |
| 4          | Kartika Padmasari | Jl.Manggis 15     |
| 5          | Budi Eko Prayoga  | 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 Lokonanta   | Jl. Tidar 95      |
| 10         | Budi Murtono      | Jl. Merak 22      |
+-----+-----+-----+
10 rows in set (0.000 sec)
```

Pict 2. Nasabah table

```
10 rows in set (0.000 sec)

MariaDB [perbankan]> INSERT INTO `nasabah_has_rekening` (`id_nasabahFK`, `no_rekeningFK`) VALUES(1, 104),(2, 103),(3, 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);
Query OK, 16 rows affected (0.010 sec)
Records: 16 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1            | 104           |
| 2            | 103           |
| 3            | 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           |
+-----+-----+
```

Pict 3. nasabah_has_rekening

```

MariaDB [perbankan]> INSERT INTO `transaksi` (`no_transaksi`, `id_nasabahFK`, `no_rekeningFK`, `jenis_transaksi`, `tanggal`, `jumlah`) VALUES(1, 105, 3, 'debit', '2020-03-29 20:51:26', 50000),(2, 103, 2, 'debit', '2020-03-29 20:51:26', 40000),(3, 101, 4, 'kredit', '2020-03-29 20:51:26', 20000),(4, 106, 3, 'debit', '2020-03-29 20:51:26', 50000),(5, 107, 5, 'kredit', '2020-03-29 20:51:26', 30000),(6, 104, 1, 'kredit', '2020-03-29 20:51:26', 200000),(7, 110, 9, 'kredit', '2020-03-29 20:51:26', 150000),(8, 102, 5, 'debit', '2020-03-29 20:51:26', 20000),(9, 105, 3, 'kredit', '2020-03-29 20:51:26', 50000),(10, 107, 4, 'debit', '2020-03-29 20:51:26', 100000),(11, 103, 2, 'debit', '2020-03-29 20:51:26', 100000),(12, 104, 1, 'debit', '2020-03-29 20:51:26', 50000),(13, 107, 4, 'kredit', '2020-03-29 20:51:26', 200000),(14, 105, 3, 'debit', '2020-03-29 20:51:26', 40000),(15, 104, 1, 'debit', '2020-03-29 20:51:26', 100000),(16, 101, 4, 'kredit', '2020-03-29 20:51:26', 20000),(17, 103, 2, 'debit', '2020-03-29 20:51:26', 50000),(18, 102, 5, 'debit', '2020-03-29 20:51:26', 50000),(19, 108, 10, 'debit', '2020-03-29 20:51:26', 100000),(20, 106, 3, 'kredit', '2020-03-29 20:51:26', 50000),(21, 103, 2, 'kredit', '2020-03-29 20:51:26', 200000),(22, 105, 3, 'kredit', '2020-03-29 20:51:26', 100000),(23, 102, 5, 'debit', '2020-03-29 20:51:26', 20000),(24, 104, 1, 'debit', '2020-03-29 20:51:26', 40000),(25, 103, 2, 'debit', '2020-03-29 20:51:26', 50000),(26, 101, 4, 'debit', '2020-03-29 20:51:26', 50000),(27, 103, 2, 'kredit', '2020-03-29 20:51:26', 100000),(28, 102, 5, 'kredit', '2020-03-29 20:51:26', 200000),(29, 109, 7, 'debit', '2020-03-29 20:51:26', 100000),(30, 110, 9, 'debit', '2020-03-29 20:51:26', 20000);
Query OK, 30 rows affected (0.009 sec)
Records: 30 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from transaksi;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal           | jumlah |
+-----+-----+-----+-----+-----+-----+
| 1           | 105          | 3             | debit           | 2020-03-29 20:51:26 | 50000  |
| 2           | 103          | 2             | debit           | 2020-03-29 20:51:26 | 40000  |
| 3           | 101          | 4             | kredit          | 2020-03-29 20:51:26 | 20000  |
| 4           | 106          | 3             | debit           | 2020-03-29 20:51:26 | 50000  |
| 5           | 107          | 5             | kredit          | 2020-03-29 20:51:26 | 30000  |
| 6           | 104          | 1             | kredit          | 2020-03-29 20:51:26 | 200000 |
| 7           | 110          | 9             | kredit          | 2020-03-29 20:51:26 | 150000 |
| 8           | 102          | 5             | debit           | 2020-03-29 20:51:26 | 20000  |
| 9           | 105          | 3             | kredit          | 2020-03-29 20:51:26 | 50000  |
| 10          | 107          | 4             | debit           | 2020-03-29 20:51:26 | 100000 |
| 11          | 103          | 2             | debit           | 2020-03-29 20:51:26 | 100000 |
| 12          | 104          | 1             | debit           | 2020-03-29 20:51:26 | 50000  |
| 13          | 107          | 4             | kredit          | 2020-03-29 20:51:26 | 200000 |
| 14          | 105          | 3             | debit           | 2020-03-29 20:51:26 | 40000  |
| 15          | 104          | 1             | debit           | 2020-03-29 20:51:26 | 100000 |
| 16          | 101          | 4             | kredit          | 2020-03-29 20:51:26 | 20000  |
| 17          | 103          | 2             | debit           | 2020-03-29 20:51:26 | 50000  |
| 18          | 102          | 5             | debit           | 2020-03-29 20:51:26 | 50000  |
| 19          | 108          | 10            | debit           | 2020-03-29 20:51:26 | 100000 |
| 20          | 106          | 3             | kredit          | 2020-03-29 20:51:26 | 50000  |
| 21          | 103          | 2             | kredit          | 2020-03-29 20:51:26 | 200000 |
| 22          | 105          | 3             | kredit          | 2020-03-29 20:51:26 | 100000 |
| 23          | 102          | 5             | debit           | 2020-03-29 20:51:26 | 20000  |
| 24          | 104          | 1             | debit           | 2020-03-29 20:51:26 | 40000  |
| 25          | 103          | 2             | debit           | 2020-03-29 20:51:26 | 50000  |
| 26          | 101          | 4             | debit           | 2020-03-29 20:51:26 | 50000  |
| 27          | 103          | 2             | kredit          | 2020-03-29 20:51:26 | 100000 |
| 28          | 102          | 5             | kredit          | 2020-03-29 20:51:26 | 200000 |
| 29          | 109          | 7             | debit           | 2020-03-29 20:51:26 | 100000 |
| 30          | 110          | 9             | debit           | 2020-03-29 20:51:26 | 20000  |
+-----+-----+-----+-----+-----+-----+
30 rows in set (0.000 sec)

```

Pict 4. nasabah_has_rekening table

```

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1          | Sutopo        | Jl. Jendral Sudirman |
| 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          | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 7          | Indri Hapsari  | Jl. Sutoyo 5 |
| 8          | Sari Murti     | Jl. Pangandaran 11 |
| 9          | Canka Lokonanta | Jl. Tidar 95 |
| 10         | Budi Murtono   | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.001 sec)

MariaDB [perbankan]> UPDATE `nasabah` SET `alamat_nasabah` = 'Jalan Slamet Riyadi No.34' WHERE `nasabah`.`id_nasabah` = 7
-> 1
Query OK, 1 row affected (0.008 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> select * from nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1          | Sutopo        | Jl. Jendral Sudirman |
| 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          | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 7          | Indri Hapsari  | Jalan Slamet Riyadi No.34 |
| 8          | Sari Murti     | Jl. Pangandaran 11 |
| 9          | Canka Lokonanta | Jl. Tidar 95 |
| 10         | Budi Murtono   | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.001 sec)

MariaDB [perbankan]>

```

Pict 5. nasabah table and delete nasabah id = 7

```

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. Tondan 63 |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUN        | Bank Rut Unit Wonogiri | Jalan A. Yani No. 23 |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
6 rows in set (0.001 sec)

MariaDB [perbankan]> delete from cabang_bank where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (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 |
| BRUN        | Bank Rut Unit Wonogiri | Jalan A. Yani No. 23 |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
5 rows in set (0.001 sec)

```

Pict 6. Cabang_bank table and delete 'Bank Rut Unit Magelang'

#Tugas

```

MariaDB [perbankan]> select * from nasabah;
+----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman |
| 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 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokonanta | Jl. Tidar 95 |
| 10 | Budi Murtono | Jl. Merak 22 |
+----+-----+-----+
9 rows in set (0.000 sec)

MariaDB [perbankan]> INSERT INTO `nasabah` (`id_nasabah`, `nama_nasabah`, `alamat_nasabah`) VALUES (11,"Donny Rizal", "Jl. Noname Street no. 32"),(12,"leBron James", "Jl. Davie 504"),(13,"Takahiro Moriuchi", "Aki
bahara Street no. 12, Los Angeles"),(14,"Toru Yamashita", "Yoroponggi Street no. 99"),(15, "Ryota ", "Jl. Slamet Riyadi no. 21"),(16,"Tomoya Kanki", "Jl. Panglima Soedirman no. 13"),(17,"Zion Williamson", "New O
rleans Pelican no. 24"),(18,"Luka Doncic", "Noname Street 12"),(19,"Trae Young", "Not Applicable Street no. 2"),(20,"Lonzo Ball", "Brindgam inhsa street no. 58"),(21,"Takeru Satoh", "Jl. Gajah Mada no. 5");
Query OK, 11 rows affected (0.008 sec)
Records: 11 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 31 |
| 3 | Suparman | Jl.Hasanudin 81 |
| 4 | Kartika Padmasari | Jl.Manggis 15 |
| 5 | Budi Eko Prayoga | Jl.Kantil 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokonanta | Jl. Tidar 95 |
| 10 | Budi Murtono | Jl. Merak 22 |
| 11 | Donny Rizal | Jl. Noname Street no. 32 |
| 12 | LeBron James | Jl. Davie 504 |
| 13 | Takahiro Moriuchi | Akibahara Street no. 12, Los Angeles |
| 14 | Toru Yamashita | Yoroponggi Street no. 99 |
| 15 | Ryota | Jl. Slamet Riyadi no. 21 |
| 16 | Tomoya Kanki | Jl. Panglima Soedirman no. 13 |
| 17 | Zion Williamson | New Orleans Pelican no. 24 |
| 18 | Luka Doncic | Noname Street 12 |
| 19 | Trae Young | Not Applicable Street no. 2 |
| 20 | Lonzo Ball | Brindgam inhsa street no. 58 |
| 21 | Takeru Satoh | Jl. Gajah Mada no. 5 |
+----+-----+-----+
20 rows in set (0.000 sec)

```

Pict 7. Insert into nasabah

```

MariaDB [perbankan]> INSERT INTO `cabang_bank` (`kode_cabang`, `nama_cabang`, `alamat_cabang`) VALUES ("BRURmb", "Bank Rut Unit Rembang", "Jl. Gajah Mada no. 12"),("BRUP", "Bank Rut Unit Pati", "Jl. Pati-Kudu no.
1"),("BRUL", "Bank Rut Unit Lamongan", "Jl. Laksana Maeda no. 2"),("BRUC", "Bank Rut Unit Cirebon", "Jl. Pemuda no. 12"),("BRUM", "Bank Rut Unit Malang", "Jl. Batu no. 12"),("BRUBndngan", "Bank Rut Unit Bandung
an", "Jl. Hebohbbbbb no. 12"),("BRUJjak", "Bank Rut Unit Jakarta", "Jl. Tugu Pemuda no. 21"),("BRUJam", "Bank Rut Unit Jambi", "Jl. Kelok Sembilan no. 12"),("BRUM", "Bank Rut Unit Himalaya", "Nepal Street no. 13"),
("BRUA", "Bank Rut Unit Aljazair", "Jl. Indonesia no. 12");
Query OK, 10 rows affected (0.006 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUA | Bank Rut Unit Aljazair | Jl. Indonesia no. 12 |
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUBndngan | Bank Rut Unit Bandungan | Jl. Hebohbbbbb no. 12 |
| BRUC | Bank Rut Unit Cirebon | Jl. Pemuda no. 12 |
| BRUM | Bank Rut Unit Himalaya | Nepal Street no. 13 |
| BRUJjak | Bank Rut Unit Jakarta | Jl. Tugu Pemuda no. 21 |
| BRUJam | Bank Rut Unit Jambi | Jl. Kelok Sembilan no. 12 |
| BRUK | Bank Rut Unit Klute | Jl. Suparman 23 |
| BRUL | Bank Rut Unit Lamongan | Jl. Laksana Maeda no. 2 |
| BRUM | Bank Rut Unit Malang | Jl. Batu no. 12 |
| BRUP | Bank Rut Unit Pati | Jl. Pati-Kudu no. 1 |
| BRURab | Bank Rut Unit Rembang | Jl. Gajah Mada no. 12 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUNW | Bank Rut Unit Wonogiri | Jalan A. Yani No. 23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
15 rows in set (0.000 sec)

MariaDB [perbankan]>

```

Pict 8. Insert into cabang_bank

```

MariaDB [perbankan]> INSERT INTO `rekening`(`no_rekening`, `kode_cabangFK`, `pin`, `saldo`) VALUES (114, 'BRUM', '627428', 999999),(115, 'BRURab', '125218', 12521242),(116, 'BRUS', '725724', 2027400),(117, 'BRUH', '13428', 64088829),(118, 'BRUM', '62525', 900129),(119, 'BRUC', '6224', 700024),(120, 'BRUH', '222228', 24100000),(121, 'BRUC', '622088', 5000000),(122, 'BRUJ', '08778', 8183900),(123, 'BRURab', '69872', 8600000),(124, 'BRUP', '8284823', 90000000000);
Query OK, 11 rows affected, 1 warning (0.005 sec)
Records: 11 Duplicates: 0 Warnings: 1

MariaDB [perbankan]> select * from rekening;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin      | saldo      |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 500000 |
| 102 | BRUS | 2222 | 350000 |
| 103 | BRUS | 3333 | 7500000 |
| 104 | BRUM | 4444 | 900000 |
| 105 | BRUM | 5555 | 200000 |
| 106 | BRUS | 6666 | 3000000 |
| 107 | BRUS | 7777 | 1000000 |
| 108 | BRUB | 0000 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUC | 4321 | 150000 |
| 112 | BRUC | 0123 | 300000 |
| 113 | BRUY | 8888 | 250000 |
| 114 | BRUM | 627428 | 999999 |
| 115 | BRURab | 125218 | 12521242 |
| 116 | BRUS | 725724 | 2027400 |
| 117 | BRUH | 13428 | 64088829 |
| 118 | BRUM | 62525 | 900129 |
| 119 | BRUC | 6224 | 700024 |
| 120 | BRUH | 222228 | 24100000 |
| 121 | BRUC | 622088 | 5000000 |
| 122 | BRUJ | 08778 | 8183900 |
| 123 | BRURab | 69872 | 8600000 |
| 124 | BRUP | 8284823 | 2147483647 |
+-----+-----+-----+-----+
24 rows in set (0.000 sec)

```

Pict 9. INSERT into rekening

```

MariaDB [perbankan]> INSERT INTO `nasabah_has_rekening`(`id_nasabahFK`, `no_rekeningFK`) VALUES (18,100),(18,110),(19,111),(20,102),(21,115),(18,152),(19,101),(12,120),(23,105),(27,108),(28,109);
Query OK, 11 rows affected (0.001 sec)
Records: 11 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1 | 104 |
| 2 | 103 |
| 3 | 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 |
| 12 | 120 |
| 18 | 100 |
| 18 | 110 |
| 18 | 152 |
| 19 | 101 |
| 19 | 111 |
| 20 | 102 |
| 21 | 115 |
| 23 | 105 |
| 27 | 108 |
| 28 | 109 |
+-----+-----+
27 rows in set (0.000 sec)

```

Pict 10. INSERT into nasabah_has_rekening

```

MariaDB [perbankan]> INSERT INTO `transaksi`(`no_transaksi`, `id_nasabahFK`, `no_rekeningFK`, `jenis_transaksi`, `tanggal`, `jumlah`) VALUES (NULL, 120, 14, 'debit', DEFAULT, 1200000),(NULL, 102, 10, 'debit', DEFAULT, 1200000),(NULL, 120, 17, 'kredit', DEFAULT, 2050000),(NULL, 120, 18, 'debit', DEFAULT, 7000000),(NULL, 110, 18, 'kredit', DEFAULT, 16000000),(NULL, 103, 10, 'kredit', DEFAULT, 5000000),(NULL, 104, 12, 'debit', DEFAULT, 15000000),(NULL, 102, 10, 'kredit', DEFAULT, 500000),(NULL, 120, 19, 'debit', DEFAULT, 12000000),(NULL, 100, 10, 'kredit', DEFAULT, 10300000),(NULL, 103, 10, 'debit', DEFAULT, 12000000);
Query OK, 11 rows affected (0.002 sec)
Records: 11 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from transaksi;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal          | jumlah      |
+-----+-----+-----+-----+-----+-----+
| 1 | 105 | 3 | debit | 2020-03-29 20:51:26 | 500000 |
| 2 | 103 | 2 | debit | 2020-03-29 20:51:26 | 400000 |
| 3 | 101 | 4 | kredit | 2020-03-29 20:51:26 | 200000 |
| 4 | 106 | 3 | debit | 2020-03-29 20:51:26 | 500000 |
| 5 | 107 | 5 | kredit | 2020-03-29 20:51:26 | 300000 |
| 6 | 104 | 1 | kredit | 2020-03-29 20:51:26 | 2000000 |
| 7 | 110 | 9 | kredit | 2020-03-29 20:51:26 | 1500000 |
| 8 | 102 | 5 | debit | 2020-03-29 20:51:26 | 200000 |
| 9 | 105 | 3 | kredit | 2020-03-29 20:51:26 | 500000 |
| 10 | 107 | 4 | debit | 2020-03-29 20:51:26 | 1000000 |
| 11 | 103 | 2 | debit | 2020-03-29 20:51:26 | 1000000 |
| 12 | 104 | 1 | debit | 2020-03-29 20:51:26 | 500000 |
| 13 | 107 | 4 | kredit | 2020-03-29 20:51:26 | 2000000 |
| 14 | 105 | 3 | debit | 2020-03-29 20:51:26 | 400000 |
| 15 | 104 | 1 | debit | 2020-03-29 20:51:26 | 1000000 |
| 16 | 101 | 4 | kredit | 2020-03-29 20:51:26 | 200000 |
| 17 | 103 | 2 | debit | 2020-03-29 20:51:26 | 500000 |
| 18 | 102 | 5 | debit | 2020-03-29 20:51:26 | 500000 |
| 19 | 108 | 10 | debit | 2020-03-29 20:51:26 | 1000000 |
| 20 | 106 | 3 | kredit | 2020-03-29 20:51:26 | 500000 |
| 21 | 103 | 2 | kredit | 2020-03-29 20:51:26 | 2000000 |
| 22 | 105 | 3 | kredit | 2020-03-29 20:51:26 | 1000000 |
| 23 | 102 | 5 | debit | 2020-03-29 20:51:26 | 200000 |
| 24 | 104 | 1 | debit | 2020-03-29 20:51:26 | 500000 |
| 25 | 103 | 2 | debit | 2020-03-29 20:51:26 | 400000 |
| 26 | 101 | 4 | debit | 2020-03-29 20:51:26 | 500000 |
| 27 | 103 | 2 | kredit | 2020-03-29 20:51:26 | 1000000 |
| 28 | 102 | 5 | kredit | 2020-03-29 20:51:26 | 2000000 |
| 29 | 109 | 7 | debit | 2020-03-29 20:51:26 | 1000000 |
| 30 | 110 | 9 | debit | 2020-03-29 20:51:26 | 200000 |
| 31 | 120 | 14 | debit | 2020-03-30 12:28:41 | 1200000 |
| 32 | 102 | 10 | debit | 2020-03-30 12:28:41 | 1200000 |
| 33 | 120 | 17 | kredit | 2020-03-30 12:28:41 | 205000 |
| 34 | 120 | 18 | debit | 2020-03-30 12:28:41 | 7000000 |
| 35 | 110 | 18 | kredit | 2020-03-30 12:28:41 | 16000000 |
| 36 | 103 | 10 | kredit | 2020-03-30 12:28:41 | 500000 |
| 37 | 104 | 12 | debit | 2020-03-30 12:28:41 | 15000000 |
| 38 | 102 | 10 | kredit | 2020-03-30 12:28:41 | 500000 |
| 39 | 120 | 19 | debit | 2020-03-30 12:28:41 | 12000000 |
| 40 | 100 | 10 | kredit | 2020-03-30 12:28:41 | 10300000 |
| 41 | 103 | 10 | debit | 2020-03-30 12:28:41 | 12000000 |
+-----+-----+-----+-----+-----+-----+
41 rows in set (0.039 sec)

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