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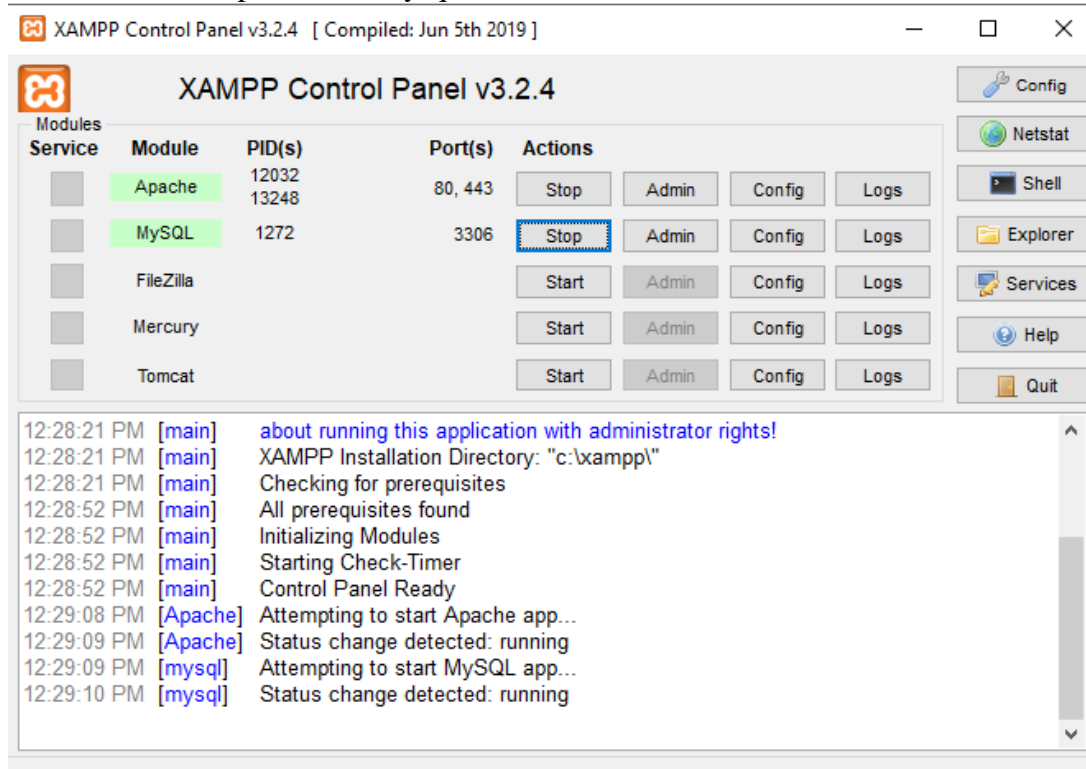
Kelas : D

PRAKTIKUM BASIS DATA

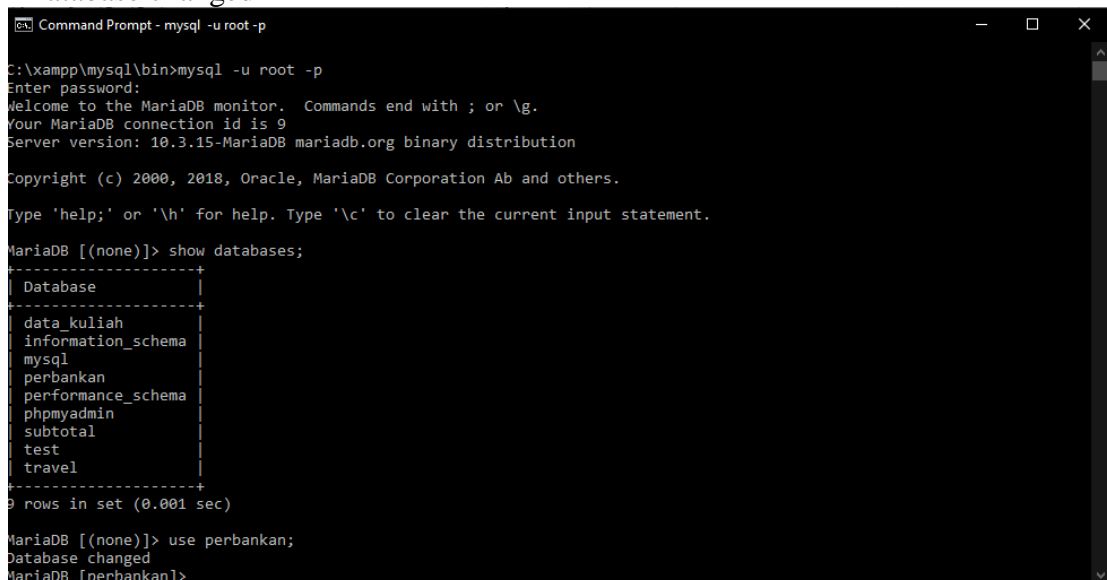
MODUL 5

1) PRAKTIKUM

1. Jalankan XAMPP control panel.
2. Jalankan server Apache dan Mysql



3. Buka command Prompt dan login sebagai root k MySQL seperti langkah pada Modul 1
4. Pilih database dengan perintah “Use perbankan”. Sehingga akan muncul pemberitahuan “Database changed”



5. Lalu masukkan data-data ke dalam database perbankan.

Tabel: Nasabah

```
Command Prompt - mysql -u root -p
-----+-----+
5 rows in set (0.001 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(1, 'Sutopo', 'Jl. Jendral Sudirman 12');
Query OK, 1 row affected (0.074 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(2, 'Maryati', 'Jl. MT. Haryono 31');
Query OK, 1 row affected (0.095 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(3, 'Superman', 'Jl. Hasanudin 81');
Query OK, 1 row affected (0.093 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(4, 'Kartika Padmasari', 'Jl. Manggis 15');
Query OK, 1 row affected (0.099 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(5, 'Budi Eko Prayoga', 'Jl. Kantil 30');
Query OK, 1 row affected (0.095 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(6, 'Satria Eka Jaya', 'Jl. Slamet Riyadi 45');
Query OK, 1 row affected (0.148 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(7, 'Indri Hapsari', 'Jl. Sutoyo 5');
Query OK, 1 row affected (0.103 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(8, 'Sari Murti', 'Jl. Pangandaran 11');
Query OK, 1 row affected (0.152 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(9, 'Conka Lakananta', 'Jl. Tidar 86');
Query OK, 1 row affected (0.132 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES(10, 'Budi Murtono', 'Jl. Merak 22');
Query OK, 1 row affected (0.118 sec)
```

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

MariaDB [perbankan]> select *from nasabah;
-----+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
-----+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono 31 |
| 3 | Superman | Jl. Hasanudin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko 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 | Conka Lakananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
-----+-----+-----+-----+
10 rows in set (0.049 sec)

MariaDB [perbankan]> _
```

Tabel: cabang_bank

```
Command Prompt - mysql -u root -p
3 rows in set (0.148 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18');
Query OK, 1 row affected (0.194 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tandean 63');
Query OK, 1 row affected (0.110 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUB', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45');
Query OK, 1 row affected (0.119 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUK', 'Bank Rut Unit Klaten', 'Jl. Superman 23');
Query OK, 1 row affected (0.123 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUY', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21');
Query OK, 1 row affected (0.095 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12');
Query OK, 1 row affected (0.104 sec)

MariaDB [perbankan]>
```

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

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. Tandean 63 |
| BRUS        | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW        | Bank Rut Unit Wonogiri | Jl. Untung Suropati 12 |
| BRUY        | Bank Rut Unit Yogyakarta | Jl. Anggrek 21   |
+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [perbankan]>
```

Tabel: Rekening

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(101, 'BRUS', '1111', '500000');
Query OK, 1 row affected (0.163 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(102, 'BRUs', '2222', '350000');
Query OK, 1 row affected (0.082 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(103, 'BRUS', '3333', '750000');
Query OK, 1 row affected (0.107 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(104, 'BRUM', '4444', '900000');
Query OK, 1 row affected (0.066 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(105, 'BRUM', '5555', '2000000');
Query OK, 1 row affected (0.099 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(106, 'BRUS', '6666', '3000000');
Query OK, 1 row affected (0.094 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(107, 'BRUS', '7777', '1000000');
Query OK, 1 row affected (0.147 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(108, 'BRUB', '0000', '5000000');
Query OK, 1 row affected (0.119 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(109, 'BRUB', '9999', '0');
Query OK, 1 row affected (0.063 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(110, 'BRUY', '1234', '550000');
Query OK, 1 row affected (0.094 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(111, 'BRUK', '4321', '150000');
Query OK, 1 row affected (0.184 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(112, 'BRUK', '0123', '300000');
Query OK, 1 row affected (0.136 sec)

MariaDB [perbankan]> INSERT INTO rekening(no_rekening, kode_cabangFK, pin, saldo) VALUES(113, 'BRUY', '8888', '255000');
Query OK, 1 row affected (0.088 sec)
```

```
Command Prompt - mysql -u root -p
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 (0.000 sec)

MariaDB [perbankan]>
```

Tabel: Nasabah_has_rekening

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(6, 109);
Query OK, 1 row affected (0.062 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(7, 109);
Query OK, 1 row affected (0.081 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 111);
Query OK, 1 row affected (0.097 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(9, 110);
Query OK, 1 row affected (0.054 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 113);
Query OK, 1 row affected (0.062 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 112);
Query OK, 1 row affected (0.097 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 108);
Query OK, 1 row affected (0.054 sec)

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 |
+-----+-----+
5 rows in set (0.000 sec)

MariaDB [perbankan]>
```

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(1, 104);
Query OK, 1 row affected (0.053 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(2, 103);
Query OK, 1 row affected (0.075 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(3, 105);
Query OK, 1 row affected (0.053 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(3, 106);
Query OK, 1 row affected (0.064 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(4, 101);
Query OK, 1 row affected (0.081 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(4, 107);
Query OK, 1 row affected (0.056 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(5, 102);
Query OK, 1 row affected (0.060 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(5, 107);
Query OK, 1 row affected (0.064 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(6, 109);
Query OK, 1 row affected (0.062 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(7, 109);
Query OK, 1 row affected (0.081 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 111);
Query OK, 1 row affected (0.097 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(9, 110);
Query OK, 1 row affected (0.054 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 113);
Query OK, 1 row affected (0.062 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(8, 112);
Query OK, 1 row affected (0.097 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES(10, 108);
Query OK, 1 row affected (0.054 sec)
```

Tabel: Transaksi

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(1, 105, 3, 'debit', 2009-11-10, 50000);
Query OK, 1 row affected, 1 warning (1.793 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(2, 103, 2, 'debit', 2009-11-10, 40000);
Query OK, 1 row affected, 1 warning (0.092 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(3, 101, 4, 'kredit', 2009-11-12, 20000);
Query OK, 1 row affected, 1 warning (0.052 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(4, 106, 3, 'debit', 2009-11-13, 50000);
Query OK, 1 row affected, 1 warning (0.053 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(5, 107, 5, 'kredit', 2009-11-13, 30000);
Query OK, 1 row affected, 1 warning (0.049 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(6, 104, 1, 'kredit', 2009-11-15, 200000);
Query OK, 1 row affected, 1 warning (0.061 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(7, 110, 9, 'kredit', 2009-11-15, 150000);
Query OK, 1 row affected, 1 warning (0.058 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(8, 102, 5, 'debit', 2009-11-16, 20000);
Query OK, 1 row affected, 1 warning (0.052 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(9, 105, 3, 'kredit', 2009-11-18, 50000);
Query OK, 1 row affected, 1 warning (0.055 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(10, 107, 4, 'debit', 2009-11-19, 100000);
Query OK, 1 row affected, 1 warning (0.075 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(11, 103, 2, 'debit', 2009-11-19, 100000);
Query OK, 1 row affected, 1 warning (0.050 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(12, 104, 1, 'debit', 2009-11-19, 50000);
Query OK, 1 row affected, 1 warning (0.036 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(13, 107, 4, 'kredit', 2009-11-20, 200000);
Query OK, 1 row affected, 1 warning (0.063 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(14, 105, 3, 'debit', 2009-11-21, 40000);
Query OK, 1 row affected, 1 warning (0.085 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(15, 104, 1, 'kredit', 2009-11-22, 100000);
Query OK, 1 row affected, 1 warning (0.073 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(16, 101, 4, 'kredit', 2009-11-22, 20000);
Query OK, 1 row affected, 1 warning (0.058 sec)
```

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(16, 101, 4, 'kredit', 2009-11-22, 20000);
Query OK, 1 row affected, 1 warning (0.050 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(17, 103, 2, 'debit', 2009-11-22, 50000);
Query OK, 1 row affected, 1 warning (0.063 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(18, 102, 5, 'debit', 2009-11-25, 50000);
Query OK, 1 row affected, 1 warning (0.079 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(19, 108, 10, 'debit', 2009-11-26, 100000);
Query OK, 1 row affected, 1 warning (0.078 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(20, 106, 3, 'kredit', 2009-11-27, 50000);
Query OK, 1 row affected, 1 warning (0.072 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(21, 103, 2, 'kredit', 2009-11-28, 200000);
Query OK, 1 row affected, 1 warning (0.082 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(22, 105, 3, 'kredit', 2009-11-28, 100000);
Query OK, 1 row affected, 1 warning (0.059 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(23, 102, 5, 'debit', 2009-11-30, 20000);
Query OK, 1 row affected, 1 warning (0.054 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(24, 104, 1, 'debit', 2009-12-1, 50000);
Query OK, 1 row affected, 1 warning (0.061 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(25, 103, 2, 'debit', 2009-12-2, 40000);
Query OK, 1 row affected, 1 warning (0.073 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(26, 101, 4, 'debit', 2009-12-4, 50000);
Query OK, 1 row affected, 1 warning (0.065 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(27, 103, 2, 'kredit', 2009-12-5, 100000);
Query OK, 1 row affected, 1 warning (0.063 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(28, 102, 5, 'kredit', 2009-12-5, 200000);
Query OK, 1 row affected, 1 warning (0.063 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(29, 109, 7, 'debit', 2009-12-5, 100000);
Query OK, 1 row affected, 1 warning (0.060 sec)

MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES(30, 110, 9, 'debit', 2009-12-6, 20000);
Query OK, 1 row affected, 1 warning (0.060 sec)

MariaDB [perbankan]>
```

```
Command Prompt - 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

6. Lakukan update untuk kasus-kasus berikut ini.

- a) Nasabah dengan nama “Indri Hapsari” pindah alamat ke “Jalan Slamet Riyadi No.34”

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

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 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 7 | Indri Hapsari | Jl. Sutoyo 5 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Conka Lakananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.021 sec)

MariaDB [perbankan]> UPDATE nasabah
-> SET alamat_nasabah = 'Jalan Slamet Riyadi No.34'
-> WHERE nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.096 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 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 | Conka Lakananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.000 sec)

MariaDB [perbankan]>
```

- b) Cabang bank dengan kode “BRUW” pindah ke alamat “Jalan A. Yani No. 23”

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

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. Tandean 63 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jl. Untung Suropati 12 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
6 rows in set (0.038 sec)

MariaDB [perbankan]> UPDATE cabang_bank
-> SET alamat_cabang = 'Jalan A. Yani No.23'
-> WHERE kode_cabang = 'BRUW';
Query OK, 1 row affected (0.096 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> select *from cabang_bank;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUM | Bank Rut Unit Magelang | Jl. P. Tandean 63 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jalan A. Yani No.23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [perbankan]>
```

7. Lakukan penghapusan pada kasus-kasus berikut ini.

a) Nasabah dengan id “7” menutup rekeningnya

```
Command Prompt - mysql -u root -p
6 rows in set (0.000 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 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 | Conka Lakananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+----+-----+-----+
10 rows in set (0.000 sec)

MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah = 7;
Query OK, 1 row affected (0.104 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 Prayoga | Jl. Kantil 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Conka Lakananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
+----+-----+-----+
9 rows in set (0.000 sec)

MariaDB [perbankan]>
```

b) Bank dengan nama cabang “Bank Rut Unit Magelang” menutup kantornya

```
MariaDB [perbankan]> select *from cabang_bank;
+----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUM | Bank Rut Unit Magelang | Jl. P. Tendean 63 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUN | Bank Rut Unit Wonogiri | Jalan A. Yani No. 23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+----+-----+-----+
6 rows in set (0.00 sec)

MariaDB [perbankan]> DELETE FROM cabang_bank WHERE nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> select *from cabang_bank;
+----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK | Bank Rut Unit Klaten | Jl. 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 (0.00 sec)

MariaDB [perbankan]>
```


TUGAS

Masukkan beberapa record ke setiap tabel dalam database yang telah anda buat pada Modul 5. Print out hasil implementasi rancangan tersebut dan analisa hasilnya. (Masing-masing 10 record untuk tabel master dan 20 untuk tabel transaksi)

Tabel: Nasabah

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah) VALUES
-> (11, 'Nadya Ayu Widya', 'Jl.H.M.Rafii 15'),
-> (12, 'Wulandari Ratna', 'Jl. Kartasuna 21'),
-> (13, 'Ayudhia Isnafiani', 'Jl. Solo Baru 45'),
-> (14, 'Berlia Vidia', 'Jl. Pati 84'),
-> (15, 'Elsa Putri', 'Jl. Mojosongo 66'),
-> (16, 'Chandika Aulia', 'Jl. Bekasi 87'),
-> (17, 'Rohmad Khairudin', 'Jl. Tawang Mangu 101'),
-> (18, 'Fanditya', 'Jl. Sragen 009'),
-> (19, 'Reylian Prealdream', 'Jl. Klaten 22'),
-> (20, 'Abid Muhammad', 'Jl. Wonogiri 56');
Query OK, 10 rows affected (0.428 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 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Conka Lakananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
| 11 | Nadya Ayu Widya | Jl.H.M.Rafii 15 |
| 12 | Wulandari Ratna | Jl. Kartasura 21 |
| 13 | Ayudhia Isnafiani | Jl. Solo Baru 45 |
| 14 | Berlia Vidia | Jl. Pati 84 |
| 15 | Elsa Putri | Jl. Mojosongo 66 |
| 16 | Chandika Aulia | Jl. Bekasi 87 |
| 17 | Rohmad Khairudin | Jl. Tawang Mangu 101 |
| 18 | Fanditya | Jl. Sragen 009 |
| 19 | Reylian Prealdream | Jl. Klaten 22 |
| 20 | Abid Muhammad | Jl. Wonogiri 56 |
+-----+-----+-----+
19 rows in set (0.155 sec)

MariaDB [perbankan]>
```

Tabel: cabang_bank

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
-> ('BRUKAT', 'Bank Rut Unit Kalimantan Tengah', 'Jl. Pasanah 17'),
-> ('BRUKET', 'Bank Rut Unit Kalimantan Timur', 'Jl. Iskandar 34'),
-> ('BRUBEK', 'Bank Rut Unit Bekasi', 'Jl. Pattimura 50'),
-> ('BRUL', 'Bank Rut Unit Laweyan', 'Jl. Ahmad Dahlan 23'),
-> ('BRUP', 'Bank Rut Unit Pabelan', 'Jl. Podomoro 99'),
-> ('BRUMM', 'Bank Rut Unit Menco', 'Jl. Menco 108'),
-> ('BRUG', 'Bank Rut Unit Gonilan', 'Jl. Rajawali Raya 31'),
-> ('BRUPB', 'Bank Rut Unit Pangkalan Bun', 'Jl. Pancasila 12'),
-> ('BRUPD', 'Bank Rut Unit Pangkalan Lada', 'Jl. Lele 33'),
-> ('BRUMEN', 'Bank Rut Unit Mendawai', 'Jl. Mendawai 67');
Query OK, 10 rows affected (0.111 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 |
| BRUBEK | Bank Rut Unit Bekasi | Jl. Pattimura 50 |
| BRUG | Bank Rut Unit Gonilan | Jl. Rajawali Raya 31 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUKAT | Bank Rut Unit Kalimantan Tengah | Jl. Pasanah 17 |
| BRUKET | Bank Rut Unit Kalimantan Timur | Jl. Iskandar 34 |
| BRUL | Bank Rut Unit Laweyan | Jl. Ahmad Dahlan 23 |
| BRUM | Bank Rut Unit Magelang | Jl. P. Tandeang 63 |
| BRUMEN | Bank Rut Unit Mendawai | Jl. Mendawai 67 |
| BRUMM | Bank Rut Unit Menco | Jl. Menco 108 |
| BRUP | Bank Rut Unit Pabelan | Jl. Podomoro 99 |
| BRUPB | Bank Rut Unit Pangkalan Bun | Jl. Pancasila 12 |
| BRUPD | Bank Rut Unit Pangkalan Lada | Jl. Lele 33 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jalan A. Yani No.23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
16 rows in set (0.000 sec)
```

Tabel: nasabah_has_rekening

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

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES
-> (10, 104),
-> (11, 103),
-> (12, 105),
-> (13, 106),
-> (14, 101),
-> (15, 107),
-> (15, 104),
-> (16, 114),
-> (17, 109),
-> (18, 105);
Query OK, 10 rows affected (0.125 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select *from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1 | 104 |
| 2 | 103 |
| 3 | 105 |
| 3 | 106 |
| 4 | 101 |
| 4 | 107 |
| 5 | 102 |
| 5 | 107 |
| 6 | 109 |
| 7 | 109 |
| 8 | 111 |
| 8 | 112 |
| 9 | 110 |
| 10 | 104 |
| 10 | 108 |
| 10 | 113 |
| 11 | 103 |
| 12 | 105 |
| 13 | 106 |
| 14 | 101 |
| 15 | 104 |
| 15 | 107 |
| 16 | 114 |
| 17 | 109 |
| 18 | 105 |
+-----+-----+
25 rows in set (0.001 sec)
```

Tabel: nasabah_has_rekening

```

Command Prompt - mysql -u root -p
-> (41, 18, 105, 'debit', '2020-04-01', 60000),
-> (42, 17, 109, 'kredit', '2020-04-03', 50000),
-> (43, 5, 102, 'kredit', '2020-04-03', 100000),
-> (44, 2, 105, 'debit', '2020-04-06', 200000),
-> (45, 7, 109, 'kredit', '2020-04-13', 30000),
-> (46, 9, 110, 'debit', '2020-04-13', 100000),
-> (47, 1, 140, 'kredit', '2020-04-14', 20000),
-> (48, 3, 105, 'kredit', '2020-04-15', 85000),
-> (49, 12, 105, 'debit', '2020-04-16', 105000),
-> (50, 2, 103, 'kredit', '2020-04-20', 100000);
Query OK, 10 rows affected (0.117 sec)
Records: 10 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	103	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

```

Command Prompt - mysql -u root -p

```

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	18	105	debit	2020-03-21 00:00:00	50000
32	11	103	kredit	2020-03-22 00:00:00	600000
33	12	105	kredit	2020-03-23 00:00:00	40000
34	13	106	kredit	2020-03-24 00:00:00	100000
35	14	101	debit	2020-03-25 00:00:00	80000
36	13	106	kredit	2020-03-25 00:00:00	400000
37	12	105	debit	2020-03-27 00:00:00	50000
38	17	109	debit	2020-03-28 00:00:00	100000
39	18	105	kredit	2020-03-30 00:00:00	20000
40	12	105	debit	2020-04-01 00:00:00	100000
41	18	105	debit	2020-04-01 00:00:00	60000
42	17	109	kredit	2020-04-03 00:00:00	50000
43	5	102	kredit	2020-04-03 00:00:00	100000
44	2	105	debit	2020-04-06 00:00:00	200000
45	7	109	kredit	2020-04-13 00:00:00	30000
46	9	110	debit	2020-04-13 00:00:00	100000
47	1	140	kredit	2020-04-14 00:00:00	20000
48	3	105	kredit	2020-04-15 00:00:00	85000
49	12	105	debit	2020-04-16 00:00:00	105000
50	2	103	kredit	2020-04-20 00:00:00	100000

0 rows in set (0.001 sec)