LAPORAN PRAKTIKUM SISTEM BASIS DATA MODUL 5 DATA MANIPULATION LANGUAGE (DML)



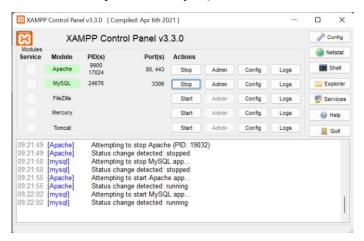
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C

TEKNIK INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA
2022/2023

D. Langkah-langkah praktikum

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



3. Buka Command Prompt dan login sebagai root ke MySQL seperti dilangkah pada Modul 1.

```
Microsoft Windows [Version 10.0.22000.1696]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Infinity>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: 10.4.27-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]>
```

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

Tabel: 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 Murtono	Jl. Merak 22

TUGAS: Menambah 10 record pada tabel nasabah

Tabel: cabang bank

kode_cabang	nama_cabang	alamat_cabang
BRUS	Bank Rut Unit Surakarta	Jl. Slamet Riyadi 18
BRUM	Bank Rut Unit Magelang	Jl. P. Tendean 63
BRUB	Bank Rut Unit Boyolali	Jl. Ahmad Yani 45
BRUK	Bank Rut Unit Klaten	Jl. Suparman 23
BRUY	Bank Rut Unit Yogyakarta	Jl. Anggrek 21
BRUW	Bank Rut Unit Wonogiri	Jl. Untung Suropati 12

TUGAS: Menambah 10 record pada tabel cabang_bank

```
MariaDB [perbankan]> create table cabang_bank(
-> kode_cabang varchar(20) primary key,
-> nama_cabang varchar(45) unique not null,
-> alamat_cabang varchar(255) not null
-> );

Query OK, 0 rows affected (0.029 sec)

MariaDB [perbankan]> INSERT INTO cabang_bank(kode_cabang, nama_cabang, alamat_cabang) VALUES
-> ('BRUS', 'Bank Rut Unit Surakarta', 'Jl. Slamet Riyadi 18'),
-> ('BRUM', 'Bank Rut Unit Magelang', 'Jl. P. Tendean 63'),
-> ('BRUM', 'Bank Rut Unit Boyolali', 'Jl. Ahmad Yani 45'),
-> ('BRUB', 'Bank Rut Unit Klaten', 'Jl. Suparman 23'),
-> ('BRUW', 'Bank Rut Unit Yogyakarta', 'Jl. Anggrek 21'),
-> ('BRUW', 'Bank Rut Unit Wonogiri', 'Jl. Untung Suropati 12'),
-> ('BRUBE', 'Bank Rut Unit Bendosari', 'Jl. Bendosari 40'),
-> ('BRUBE', 'Bank Rut Unit Bekonang', 'Jl. Bekonang 56'),
-> ('BRUBC', 'Bank Rut Unit Palur', 'Jl. Jaten 14'),
-> ('BRUPC', 'Bank Rut Unit Polokarto', 'Jl. Godog 31'),
-> ('BRUSUK', 'Bank Rut Unit Sukoharjo', 'Jl. Gayam 63'),
-> ('BRUSUK', 'Bank Rut Unit Sukoharjo', 'Jl. Gayam 63'),
-> ('BRUSUK', 'Bank Rut Unit Trucuk', 'Jl. Gaden 15'),
-> ('BRUBC', 'Bank Rut Unit Trucuk', 'Jl. Gaden 15'),
-> ('BRUTA', 'Bank Rut Unit Tawangsari', 'Jl. Tamangsari 22');
Query OK, 16 rows affected (0.008 sec)
Records: 16 Duplicates: 0 Warnings: 0
```

Tabel: rekening

no_rekening	kode_cabang	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

TUGAS: Menambah 10 record pada tabel rekening

Tabel: nasabah_has_rekening

id_nasabah	no_rekening
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

TUGAS: Menambah 10 record pada tabel nasabah_has_rekening

```
MariaDB [perbankan]> create table nasabah_has_rekening(
-> id_nasabahFK integer references nasabah(id_nasabah) on delete cascade on update cascade,
-> no_rekeningFK integer references rekening(no_rekening) on delete cascade on update cascade,
-> primary key(id_nasabahFK, no_rekeningFK)
-> );

Query OK, 0 rows affected (0.008 sec)

MariaDB [perbankan]> INSERT INTO nasabah_has_rekening(id_nasabahFK, no_rekeningFK) VALUES
-> (1, 104),
-> (2, 103),
-> (3, 105),
-> (3, 105),
-> (3, 106),
-> (4, 101),
-> (4, 101),
-> (5, 102),
-> (5, 102),
-> (5, 102),
-> (6, 109),
-> (7, 109),
-> (8, 111),
-> (9, 110),
-> (10, 113),
-> (8, 112),
-> (10, 108),
-> (11, 114),
-> (13, 105),
-> (13, 112),
-> (14, 101),
-> (15, 117),
-> (16, 102),
-> (16, 109),
-> (17, 107),
-> (16, 109),
-> (17, 107),
-> (19, 116),
-> (20, 105);

Query OK, Q 25 rows affected (0.005 sec)
Records: 25 Duplicates: 0 Warnings: 0
```

Tabel: transaksi

no_ transaksi	no_ rekening	id_ nasabah	jenis_ transaksi	tanggal	jumlah
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

 $TUGAS: Menambah\ 20\ record\ pada\ tabel\ transaksi$

```
MariaDB [perbankan]> create table transaksi(
-> no_transaksi serial primary key,
                  -> no_rekeningFK integer references rekening(no_rekening) on delete cascade on update cascade,
                             id_nasabahFK integer references nasabah(id_nasabah) on delete cascade on update cascade,
                              jenis_transaksi varchar(20) default 'debit' not null,tanggal datetime not null default current_timestamp,
                               jumlah integer not null check(jumlah>=20000)
 Query OK, 0 rows affected (0.013 sec)
  MariaDB [perbankan]> INSERT INTO transaksi(no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal, jumlah) VALUES
                            (1, 105, 3, 'debit', (2, 103, 2, 'debit',
                                                                            'debit', '2009-11-10' ,50000),
'debit', '2009-11-10' ,40000),
'kredit', '2009-11-12' ,20000),
                                                                                                                     2009-11-12',2000),
'2009-11-13',50000),
'2009-11-13',30000)
                  -> (3, 101, 4, Kredit , -> (4, 106, 3, 'debit' , -> (5, 107, 5, 'kredit',
                                            101,
                         o (3, 101, 4, 'kredit', '2009-11-12', 20000),
(4, 106, 3, 'debit', '2009-11-13', 50000),
(5, 107, 5, 'kredit', '2009-11-13', 50000),
(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', '2009-11-16', 20000),
(10, 107, 4, 'debit', '2009-11-19', 100000),
(11, 103, 2, 'debit', '2009-11-19', 100000),
(11, 103, 2, 'debit', '2009-11-19', 50000),
(12, 104, 1, 'debit', '2009-11-19', 50000),
(13, 107, 4, 'kredit', '2009-11-21', 40000),
(14, 105, 3, 'debit', '2009-11-21', 40000),
(15, 104, 1, 'kredit', '2009-11-22', 100000),
(16, 101, 4, 'kredit', '2009-11-22', 50000),
(17, 103, 2, 'debit', '2009-11-22', 50000),
(19, 108, 10, 'debit', '2009-11-25', 50000),
(20, 106, 3, 'kredit', '2009-11-26', 100000),
(21, 103, 2, 'kredit', '2009-11-28', 100000),
(22, 105, 3, 'kredit', '2009-11-28', 100000),
(23, 102, 5, 'debit', '2009-11-28', 100000),
(24, 104, 1, 'debit', '2009-11-24', 50000),
(25, 103, 2, 'debit', '2009-12-1', 50000),
(27, 103, 2, 'kredit', '2009-12-1', 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),
(20, 109, 109, 'debit', '2009-12-5', 100000),
(21, 103, 2, 'kredit', '2009-12-5', 100000),
(21, 103, 2, 'debit', '2009-12-5', 100000),
(22, 105, 3, 110, 3, 'debit', '2009-12-6', 50000),
(31, 103, 2, 'debit', '2009-12-6', 50000),
(31, 103, 2, 'debit', '2009-12-6', 50000),
(31, 103, 2, 'debit', '2009-12-6', 50000),
(32, 104, 1, 'debit', '2009-12-6', 50000),
                         -> (37, 103, 2, 'debit' ,'2009-12-10' ,150000),
-> (38, 109, 5 'debit' ,'2009-12-11' ,20000),
-> (39, 101, 10 'debit' ,'2009-12-11' ,50000),
-> (40, 112, 3, 'kredit' ,'2009-12-13' ,100000),
-> (41, 103, 2 ,'kredit' ,'2009-12-14' ,50000),
-> (42, 105, 3 ,'kredit' ,'2009-12-14' ,50000),
-> (43, 102, 5 ,'debit' ,'2009-12-15' ,200000),
-> (44, 104, 7 ,'debit' ,'2009-12-15' ,200000),
-> (45, 103, 9 ,'debit' ,'2009-12-17' ,100000),
-> (46, 121, 3 ,'debit' ,'2009-12-17' ,20000),
-> (47, 133, 2 ,'kredit' ,'2009-12-20' ,50000),
-> (48, 142, 5 ,'kredit' ,'2009-12-23' ,50000),
-> (50, 110, 9,'debit' ,'2009-12-23' ,50000),
-> (50, 110, 9,'debit' ,'2009-12-27' ,50000);
Query OK, 50 rows affected (0.008 sec)
Records: 50 Duplicates: 0 Warnings: 0
     Records: 50 Duplicates: 0 Warnings: 0
```

- 6. Lakukan update untuk kasus-kasus berikut ini.
 - a. Nasabah dengan nama "Indri Hapsari" pindah alamat ke "JalanSlamet Riyadi No.34".
 - b. Cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No.23".

```
MariaDB [perbankan]> UPDATE nasabah
-> set alamat_nasabah = 'Jl. Slamet Riyadi 34' where nama_nasabah = 'Indri Hapsari';
Query OK, 1 row affected (0.003 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [perbankan]> select * from nasabah;
  id_nasabah | nama_nasabah | alamat_nasabah
                                        | Jl. Jendral Sudirman 12
             1 | Sutopo
            2 | Maryati | Jl. MT. Haryono 31
3 | Suparman | Jl. Hasanudin 81
4 | Kartika Padmasari | Jl. Manggis 15
             5 | Budi Eko Prayogo
                                        | Jl. Kantil 30
                                        | Jl. Slamet Riyadi 45
             6
                 Satria Eka Jaya
                  Indri Hapsari
                                        Jl. Slamet Riyadi 34
             8 | Sari Murti
                                        Jl. Pangandaran 11
                                        | Jl. Tidar 86
| Jl. Merak 22
                 Canka Lokananta
            9
                 Budi Murtono
            10
                 Bima Triadmaja
                                        Jl. Palihan 13
Jl. Pedan 27
            11 l
                 Risma Nanda
            12
                Aisah Hindhun
Ade Cahyo
Ganang Pras
                                        | Jl. Keden 01
            13
                 Alha Jantri
                                        Jl. Ngerangan 20
            14
                                       J1. Plosowangi 76
J1. Toprayan 07
J1. Karangasem 17
J1. Kedungampel 12
            15 İ
            16 | Ganang Pras
                 Dhea Salsabella
Reyhan Pradhana
            17
            18
                                        | Jl. Trucuk 35
| Jl. Tirtomarto 05
            19
                  Fatika Sari
            20 | Ilham Muchron
20 rows in set (0.001 sec)
```

```
MariaDB [perbankan]> UPDATE cabang_bank
-> set alamat_cabang = 'Jl. A. Yani 23' where kode_cabang = 'BRUW';
Query OK, 1 row affected (0.003 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
              Bank Rut Unit Bayat
 BRUBA
                                           Jl. Temas 42
              | Bank Rut Unit Bendosari | Jl. Bendosari 40
| Bank Rut Unit Bekonang | Jl. Bekonang 56
 BRUBE
 BRUBEK
              Bank Rut Unit Cawas
                                           | Jl. Barepan 10
| Jl. Jaten 14
| Jl. Suparman 23
 BRUC
              Bank Rut Unit Jaten
Bank Rut Unit Klaten
 BRUJ
                Bank Rut Unit Klaten
 BRUK
 RRI IM
              Bank Rut Unit Magelang | Jl. P. Tendean 63
              Bank Rut Unit Palur
                                           Jl. Palur 25
 BRUP
                Bank Rut Unit Polokarto | Jl. Godog 31
 BRUPOL
                Bank Rut Unit Surakarta
                                             Jl. Slamet Riyadi 18
 BRUS
 BRUSUK
                Bank Rut Unit Sukoharjo | Jl. Gayam 63
 BRUT
                Bank Rut Unit Trucuk
                                           | Jl. Gaden 15
                Bank Rut Unit Tawangsari | Jl. Tawangsari 22
 BRUTA
 BRUW
                Bank Rut Unit Wonogiri
                                             Jl. A. Yani 23
              | Bank Rut Unit Wonogiri | Jl. A. Yani 23
| Bank Rut Unit Yogyakarta | Jl. Anggrek 21
 BRUY
16 rows in set (0.000 sec)
```

- 7. Lakukan penghapusan untuk kasus-kasus berikut.
 - a. Nasabah dengan id "7" menutup rekeningnya.
 - b. Cabang dengan nama_cabang "Bank Rut Unit Magelang" menutup kantornya.

```
MariaDB [perbankan]> DELETE FROM cabang_bank where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.006 sec)
MariaDB [perbankan]> select * from cabang_bank;
   kode_cabang | nama_cabang
                                                                                        alamat cabang
               Bank Rut Unit Boyolali | Jl. Ahmad Yani 45
Bank Rut Unit Bayat | Jl. Temas 42
Bank Rut Unit Bendosari | Jl. Bendosari 40
K Bank Rut Unit Bekonang | Jl. Bekonang 56
Bank Rut Unit Cawas | Jl. Barepan 10
Bank Rut Unit Jaten | Jl. Jaten 14
Bank Rut Unit Klaten | Jl. Suparman 23
Bank Rut Unit Palur | Jl. Palur 25
Bank Rut Unit Polokarto | Jl. Godog 31
Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18
K Bank Rut Unit Trucuk | Jl. Gaden 15
Bank Rut Unit Tawangsari | Jl. Tawangsari 22
Bank Rut Unit Wonogiri | Jl. A. Yani 23
Bank Rut Unit Yogyakarta | Jl. Anggrek 21
   BRUB
   BRUBA
   BRUBE
   BRUBEK
   BRUC
   BRUJ
   BRUK
   BRUP
   BRUPOL
   BRUS
   BRUSUK
   BRUT
   BRUTA
   BRUW
   BRUY
15 rows in set (0.001 sec)
```

E. Tugas

Menambahkan 20 record ke tabel transaksi, dan 10 record untuk tabel yang lain (memakai database perbankan)

ariaDB [perba	ankan]> select * from	m nasabah;
id_nasabah	nama_nasabah	++ alamat_nasabah
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Sutopo Maryati Suparman Kartika Padmasari Budi Eko Prayogo Satria Eka Jaya Indri Hapsari Sari Murti Canka Lokananta Budi Murtono Bima Triadmaja Risma Nanda Alha Jantri Aisah Hindhun Ade Cahyo Ganang Pras Dhea Salsabella	Jl. Jendral Sudirman 12 Jl. MT. Haryono 31 Jl. Hasanudin 81 Jl. Manggis 15 Jl. Kantil 30 Jl. Slamet Riyadi 45 Jl. Sutoyo 5 Jl. Pangandaran 11 Jl. Tidar 86 Jl. Merak 22 Jl. Palihan 13 Jl. Pedan 27 Jl. Keden 01 Jl. Ngerangan 20 Jl. Plosowangi 76 Jl. Toprayan 07 Jl. Karangasem 17
18 19 20	Reyhan Pradhana Fatika Sari Ilham Muchron	Jl. Kedungampel 12 Jl. Trucuk 35 Jl. Tirtomarto 05
	nkan]> select * from + nama_cabang	cabang_bank; alamat_cabang
BRUB BRUBA BRUBE BRUBEK BRUC BRUJ BRUK BRUK BRUM BRUP BRUPOL BRUS BRUSUK BRUSUK BRUSUK	Bank Rut Unit Boyo. Bank Rut Unit Bayar Bank Rut Unit Bende Bank Rut Unit Cawar Bank Rut Unit Jater Bank Rut Unit Mager Bank Rut Unit Mager Bank Rut Unit Poluol Bank Rut Unit Sural Bank Rut Unit Sural Bank Rut Unit Sural Bank Rut Unit Sukol Bank Rut Unit Truce Bank Rut Unit Truce	t Jl. Temas 42 psari Jl. Bendosari 40 nang Jl. Bekonang 56 s Jl. Barepan 10 n Jl. Jaten 14 en Jl. Suparman 23 lang Jl. P. Tendean 63 r Jl. Palur 25 karto Jl. Godog 31 karta Jl. Slamet Riyadi 18 harjo Jl. Gayam 63 uk Jl. Gaden 15

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	5000000	
109	BRUB	9999	0	
110	BRUY	1234	550000	
111	BRUK	4321	150000	
112	BRUK	123	300000	
113	BRUY	8888	255000	
114	BRUC	1466	7000000	
115	BRUTA	8122	740000	
116	BRUBA	1047	650000	
117	BRUT	1609	420000	
118	BRUSUK	9215	800000	
119	BRUP	5535	680000	
120	BRUJ	1354	730000	
121	BRUBE	1700	900000	
122	BRUBEK	9105	250000	
123	BRUTA	4195	4500000	
++ 23 rows in set (0.001 sec)				

MariaDB [perbank	<pre>can]> select * from nasabah_has_rekening; </pre>
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
11	114
13	105
13	112
14	101
15	117
16	102
16	109
17	107
19	116
20	105
+	++
25 rows in set ((0.000 sec)

no_transaksi	no_rekeningFK	id_nasabahFK	jenis_transaksi	tanggal	jumlah
1	105	3	debit	2009-11-10 00:00:00	50000
2	103	2	debit	2009-11-10 00:00:00	40000
3	101	4	kredit	2009-11-12 00:00:00	20000
4	106	3	debit	2009-11-13 00:00:00	50000
5	107	5	kredit	2009-11-13 00:00:00	30000
6	104	1	kredit	2009-11-15 00:00:00	200000
7	110	9	kredit	2009-11-15 00:00:00	150000
8	102	5	debit	2009-11-16 00:00:00	20000
9	105	3	kredit	2009-11-18 00:00:00	50000
10	107	4	debit	2009-11-19 00:00:00	100000
11	103	2	debit	2009-11-19 00:00:00	100000
12	104	1	debit	2009-11-19 00:00:00	50000
13	107	4	kredit	2009-11-20 00:00:00	200000
14	105	3	debit	2009-11-21 00:00:00	40000
15	104	1	kredit	2009-11-22 00:00:00	100000
16	101	4	kredit	2009-11-22 00:00:00	20000
17	103	2	debit	2009-11-22 00:00:00	50000
18	102	5	debit	2009-11-25 00:00:00	50000
19	102	10	debit	2009-11-25 00:00:00	100000
20	106	3	kredit	2009-11-27 00:00:00	50000
21	103	2	kredit	2009-11-27 00:00:00	200000
22	105	3	kredit kredit	2009-11-28 00:00:00	100000
23	103	5	kredit debit		
			!	2009-11-30 00:00:00	20000
24	104	1	debit	2009-12-01 00:00:00	50000
25	103	2	debit	2009-12-02 00:00:00	40000
26	101	4	debit	2009-12-04 00:00:00	50000
27	103	2	kredit	2009-12-05 00:00:00	100000
28	102	5	kredit	2009-12-05 00:00:00	200000
29	109	7	debit	2009-12-05 00:00:00	100000
30	110	9	debit	2009-12-06 00:00:00	20000
31	103	2	debit	2009-12-06 00:00:00	50000
32	104	1	debit	2009-12-07 00:00:00	40000
33	107	4	kredit	2009-12-07 00:00:00	20000
34	105	3	debit	2009-12-07 00:00:00	50000
35	104	1	kredit	2009-12-09 00:00:00	30000
36	101	4	kredit	2009-12-10 00:00:00	200000
37	103	2	debit	2009-12-10 00:00:00	150000
38	109	5	debit	2009-12-11 00:00:00	20000
39	101	10	debit	2009-12-11 00:00:00	50000
40	112	3	kredit	2009-12-13 00:00:00	100000
41	103	2	kredit	2009-12-14 00:00:00	100000
42	105	3	kredit	2009-12-14 00:00:00	50000
43	102	5	debit	2009-12-15 00:00:00	200000
44	104	7	debit	2009-12-16 00:00:00	40000
45	103	9	debit	2009-12-17 00:00:00	100000
46	121	3	debit	2009-12-17 00:00:00	20000
47	133	2	kredit	2009-12-20 00:00:00	50000
48	142	5	kredit	2009-12-23 00:00:00	50000
49	109	7	debit	2009-12-23 00:00:00	100000
50	110	9	debit	2009-12-27 00:00:00	50000

50 rows in set (0.000 sec)