## DATABASE SYSTEMS PRACTICUM 6



#### By:

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# INFORMATION TECHNOLOGY FACULTY OF COMMUNICATION AND INFORMATICS UNIVERSITY OF MUHAMMADIYAH SURAKARTA 2020

#### **Activity**

```
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> SELECT nama_cabang, alamat_cabang FROM cabang_bank ORDER BY nama_cabang;
            ------
  nama_cabang
                               alamat_cabang
                                 Aceh
Jl. Ahmad Yani 45
  Bank Rut Unit Aceh
  Bank Rut Unit Boyolali
  Bank Rut Unit Calang
Bank Rut Unit Gorontalo
                                 Calang
Gorontalo
Idi Rayeuk
  Bank Rut Unit Idi Rayeuk
Bank Rut Unit Jakarta
                                  Jakarta
  Bank Rut Unit Klaten
Bank Rut Unit Lamongan
                                 Jl. Suparman 23
                                 Lamongan
Nusa Tenggara Timur
  Bank Rut Unit NTT
  Bank Rut Unit Pekalongan
Bank Rut Unit Rembang
                                 Pekalongan
                                  Rembang
                                 Jl. Slamet Riyadi 18
Takengon
Jalan A. Yani No. 23
  Bank Rut Unit Surakarta
  Bank Rut Unit Takengon
  Bank Rut Unit Wonogiri
  Bank Rut Unit Yogyakarta | Jl. Anggrek 21
15 rows in set (0.001 sec)
```

Show name and addres of bank sorted by name of the bank

```
MariaDB [perbankan]> SELECT no_rekening, pin, saldo FROM rekening ORDER BY saldo DESC;
 no_rekening | pin | saldo
                       5000000
          108 | 0
          106
                6666
                       3000000
                5555
                       2000000
          105
          107
                7777
                       1000000
          116
                5395
                        900000
          104
                4444
                        900000
          118
                5332
                        890000
          103
                3333
                        750000
          121
                1233
                        750000
                1457
                        670000
          122
                3243
                        600000
          120
                        560000
          117
                5394
          110
                1234
                        550000
          114
                2345
                        500000
                1111
                        500000
          101
          102
                2222
                        350000
          123
                1534
                        320000
          112
                123
                        300000
                        255000
          113
                8888
          119
                5123
                        230000
          111
                4321
                        150000
                5345
                        100000
          115
          109
                9999
                             0
23 rows in set (0.001 sec)
```

Show account number, pin, amount from account sorted by amount from biggest to lowest

#### **Assignment**

1. Show name and address of customer sorted by name of the customer

19 rows in set (0.001 sec)

2. Show transaction type and transaction amount where type of the transaction is credit

```
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi WHERE jenis_transaksi = "kredit";
 jenis_transaksi | jumlah
+-----
 kredit | 20000
kredit | 30000
kredit | 200000
  kredit
                    150000
                  50000
200000
100000
20000
  kredit
  kredit
  kredit
  kredit
                  | 20000
| 50000
| 200000
| 100000
| 100000
| 200000
| 7890000
| 4650000
  kredit
  kredit
  kredit
  kredit
  kredit
  kredit
  kredit
                  | 4650000
| 430000
| 100000
| 90000
| 100000
| 200000
| 300000
| 400000
  kredit
  kredit
  kredit
  kredit
  kredit
 kredit
kredit
              500000
23 rows in set (0.001 sec)
```

**3.** Show transaction type and transaction amount which did the transaction on 21 november 2009 and sorted by transaction amount

**4.** Show customer name, transaction type, and transaction amount where account of transaction is Rp 20.000

MariaDB [perbankan]> SELECT nasabah.nama\_nasabah, transaksi.jenis\_transaksi, transaksi.jumlah FROM nasabah, transaksi
-> WHERE nasabah.id\_nasabah = transaksi.id\_nasabahFK AND transaksi.jumlah = 20000;

+	+	++
nama_nasabah	jenis_transaksi	jumlah
Kartika Padmasari   Budi Eko Prayogo   Kartika Padmasari   Budi Eko Prayogo   Canka Lokananta	kredit   debit   kredit   debit   debit	20000   20000   20000   20000   20000

5 rows in set (0.001 sec)

5. Show customer name and address where customer name begins with "Su"

#### **Question**

Display the customer's name and customer's address where the client's ID is 1 and the customers 'name is Sutopo.

Show no transaction and no account where no accounts are 104, customer ID 1, and transaction type credit.

```
MariaDB [perbankan]> SELECT no_transaksi, no_rekeningFK FROM transaksi WHERE no_rekeningFK = 104 AND id_nasabahFK = 1
    -> AND jenis_transaksi = "kredit";
```

no_transaksi	no_rekeningFK
6 15	104 104
+	++

2 rows in set (0.001 sec)

## Show no transaction, Account No, type of transaction showing 10 lines after passing 5 lines and sorted by transaction No.

MariaDB [perbankan]> SELECT no\_transaksi, no\_rekeningFK, jenis\_transaksi FROM transaksi
-> ORDER BY no transaksi LIMIT 10 OFFSET 5;

	L	L			
no_transaksi	no_rekeningFK	jenis_transaksi			
6   7   8   9   10   11   12	104 110 102 105 107 103 104	kredit kredit debit kredit debit debit debit debit kredit			
14	105	debit			
15	104	kredit			

10 rows in set (0.000 sec)

#### Show no account and pin where the branch code is brub and the balance cannot be empty.

MariaDB [perbankan]> SELECT no\_rekening, pin FROM rekening WHERE saldo IS NOT NULL AND kode\_cabangFK = "BRUK";

no_rekening	pin
111   112   117	4321     123     5394
+	++ /0.000

3 rows in set (0.000 sec)

## Show no transactions and no accounts where the credit transaction type and amount cannot be null. Sort by no transaction and display 10 lines after passing 3 lines.

MariaDB [perbankan]> SELECT no\_transaksi, no\_rekeningFK FROM transaksi WHERE jenis\_transaksi = "kredit"
 -> AND jumlah IS NOT NULL ORDER BY no\_transaksi LIMIT 10 OFFSET 3;

+	+			
no_transaksi	no_rekeningFK			
7	110			
9	105			
13	107			
15	104			
16	101			
20	106			
21	103			
22	105			
27	103			
28	102			
+	+			

10 rows in set (0.001 sec)

#### Show search nama\_nasabah with "Su" string

#### Show nama\_nasabah coming from the same cabang\_bank

### Show nama\_nasabah that come from the same cabang\_bank, and have a credit or debit jenis\_transaksi

```
MariaDB [perbankan]> SELECT nasabah.nama_nasabah, transaksi.jenis_transaksi FROM nasabah, nasabah_has_rekening, rekening, transaksi WHERE
     -> nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK AND
-> nasabah_has_rekening.no_rekeningFK = rekening.no_rekening AND
-> rekening.kode_cabangFK = "BRUM" AND
-> rekening.no_rekening = transaksi.no_rekeningFK AND
-> (transaksi.jenis_transaksi = "kredit" OR transaksi.jenis_transaksi = "debit");
| nama_nasabah | jenis_transaksi |
  Suparman
                         debit
  Sutopo
                         kredit
   Suparman
                         kredit
  Sutono
                         debit
   Suparman
  Sutopo
                         kredit
  Suparman
                         kredit
  Sutopo
                         debit
  Srinatun
                         debit
  Srinatun
                        kredit
10 rows in set (0.001 sec)
```

#### Show customer transactions originating from the same cabang\_bank

MariaDB [perbankan]> SELECT \* FROM transaksi, rekening WHERE
 -> transaksi.no\_rekeningFK = rekening.no\_rekening AND
 -> rekening.kode\_cabangFK = "BRUM";

,										
	no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah	no_rekening	kode_cabangFK	pin	saldo
	1	3	105	debit	2009-11-10 00:00:00	50000	105	BRUM	5555	2000000
	6	1	104	kredit	2009-11-15 00:00:00	200000	104	BRUM	4444	900000     2000000
	] 9 ] 12	] 3 ] 1	105   104	kredit debit	2009-11-18 00:00:00	50000 50000	105 104	BRUM BRUM	5555 4444	2000000     900000
	14	3	105	debit	2009-11-21 00:00:00	40000	105	BRUM	5555	2000000
	15	1	104	kredit	2009-11-22 00:00:00	100000	104	BRUM	4444	900000
	22	] 3	105	kredit	2009-11-28 00:00:00	100000	105	BRUM	5555	2000000
	24	1	104	debit	2009-12-01 00:00:00	50000	104	BRUM	4444	900000
	41	16	119	debit	2020-03-29 00:00:00	100000	119	BRUM	5123	230000
	42	16	119	kredit	2020-03-30 00:00:00	100000	119	BRUM	5123	230000

10 rows in set (0.001 sec)

#### Show customer transactions originating from cabang\_bank Boyolali and Surakarta

MariaDB [perbankan]> SELECT \* FROM transaksi, rekening WHERE
 -> transaksi.no\_rekeningFK = rekening.no\_rekening AND
 -> (rekening.kode\_cabangFK = "BRUS" OR rekening.kode\_cabangFK = "BRUB");

no_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah	no_rekening	kode_cabangFK	pin	saldo	
2	2	103	debit	2009-11-10 00:00:00	40000	103	BRUS	3333	750000	
j 3 j	4	101	kredit	2009-11-12 00:00:00	20000	101	BRUS	1111	500000	
4	3	106	debit	2009-11-13 00:00:00	50000	106	BRUS	6666	3000000	
5	5	107	kredit	2009-11-13 00:00:00	30000	107	BRUS	7777	1000000	
8	5	102	debit	2009-11-16 00:00:00	20000	102	BRUS	2222	350000	
10	4	107	debit	2009-11-19 00:00:00	100000	107	BRUS	7777	1000000	
11	2	103	debit	2009-11-19 00:00:00	100000	103	BRUS	3333	750000	
13	4	107	kredit	2009-11-20 00:00:00	200000	107	BRUS	7777	1000000	
16	4	101	kredit	2009-11-22 00:00:00	20000	101	BRUS	1111	500000	
17	2	103	debit	2009-11-22 00:00:00	50000	103	BRUS	3333	750000	
18	5	102	debit	2009-11-25 00:00:00	50000	102	BRUS	2222	350000	
19	10	108	debit	2009-11-26 00:00:00	100000	108	BRUB	0	5000000	
20	3	106	kredit	2009-11-27 00:00:00	50000	106	BRUS	6666	3000000	
21	2	103	kredit	2009-11-28 00:00:00	200000	103	BRUS	3333	750000	
23	5	102	debit	2009-11-30 00:00:00	20000	102	BRUS	2222	350000	
25	2	103	debit	2009-12-02 00:00:00	40000	103	BRUS	3333	750000	
26	4	101	debit	2009-12-04 00:00:00	50000	101	BRUS	1111	500000	
27	2	103	kredit	2009-12-05 00:00:00	100000	103	BRUS	3333	750000	
28	5	102	kredit	2009-12-05 00:00:00	200000	102	BRUS	2222	350000	
29	7	109	debit	2009-12-05 00:00:00	100000	109	BRUB	9999	0	
47	19	122	debit	2020-04-01 00:00:00	400000	122	BRUB	1457	670000	
48	19	122	kredit	2020-04-02 00:00:00	400000	122	BRUB	1457	670000	
49	19	122	debit	2020-04-02 00:00:00	500000	122	BRUB	1457	670000	
+				+						

23 rows in set (0.001 sec)