

Nama : Reza Aristo Rifandi
NIM : L200180206
Kelas : H

Modul 8 Praktikum Sistem Basis Data

1. Praktikum

a)

```
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
```

B)

```
MariaDB [perbankan]> select transaksi.tanggal, transaksi.jenis_transaksi, transa  
ksi.jumlah from nasabah, transaksi where nasabah.id_nasabah=transaksi.id_nasabah  
FK and nasabah.nama_nasabah in ('Sutopo','Canka Lokananta') order by transaksi.t  
anggal;
```

tanggal	jenis_transaksi	jumlah
2009-11-15 00:00:00	kredit	200000
2009-11-15 00:00:00	kredit	150000
2009-11-19 00:00:00	debit	50000
2009-11-22 00:00:00	kredit	100000
2009-12-01 00:00:00	debit	50000
2009-12-06 00:00:00	debit	20000

6 rows in set (0.889 sec)

C)

```
MariaDB [perbankan]> select transaksi.tanggal, nasabah.nama_nasabah, transaksi.j  
enis_transaksi, transaksi.jumlah from nasabah, transaksi where transaksi.tanggal  
between '2009-11-15' and '2009-11-20' and nasabah.id_nasabah=transaksi.id_nasab  
ahFK order by transaksi.tanggal, nasabah.nama_nasabah;
```

tanggal	nama_nasabah	jenis_transaksi	jumlah
2009-11-15 00:00:00	Canka Lokananta	kredit	150000
2009-11-15 00:00:00	Sutopo	kredit	200000
2009-11-16 00:00:00	Budi Eko Prayogo	debit	20000
2009-11-18 00:00:00	Suparman	kredit	50000
2009-11-19 00:00:00	Kartika Padmasari	debit	100000
2009-11-19 00:00:00	Maryati	debit	100000
2009-11-19 00:00:00	Sutopo	debit	50000
2009-11-20 00:00:00	Kartika Padmasari	kredit	200000

8 rows in set (0.060 sec)

D)

```
MariaDB [perbankan]> select transaksi.jenis_transaksi as 'Jenis Transaksi', sum(  
jumlah) as 'Jumlah <Rp>' from transaksi group by transaksi.jenis_transaksi order  
by transaksi.jenis_transaksi;
```

Jenis Transaksi	Jumlah <Rp>
debit	930000
kredit	1420000

2 rows in set (0.073 sec)

E)

```
MariaDB [perbankan]> select jenis_transaksi as "Jenis Transaksi", max(jumlah) as  
"Transaksi Terbesar", min(jumlah) as "Transaksi Terkecil" from transaksi group  
by transaksi.jenis_transaksi order by transaksi.jenis_transaksi;
```

Jenis Transaksi	Transaksi Terbesar	Transaksi Terkecil
debit	100000	20000
kredit	200000	20000

2 rows in set (0.001 sec)

F)

```
MariaDB [perbankan]> select jenis_transaksi as "Jenis Transaksi", sum(jumlah) as
"Jumlah <Rp>", count(jumlah) as "Jumlah Transaksi" from transaksi where tanggal
between '2009-11-1' and '2009-11-30' group by transaksi.jenis_transaksi order b
y transaksi.jenis_transaksi;
```

Jenis Transaksi	Jumlah <Rp>	Jumlah Transaksi
debit	6700000	12
kredit	11200000	11

2 rows in set (0.001 sec)

2. Tugas

A)

```
MariaDB [perbankan]> select jenis_transaksi, sum(jumlah) as "Jumlah <Rp>" from t
ransaksi, nasabah where nasabah.nama_nasabah in ('Kartika Padmasari') group by t
ransaksi.jenis_transaksi;
```

jenis_transaksi	Jumlah <Rp>
debit	9300000
kredit	14200000

2 rows in set (0.002 sec)

B)

```
MariaDB [perbankan]> select sum(saldo) as "Jumlah Total Saldo" from rekening, na
sabah where rekening.no_rekening=103;
```

Jumlah Total Saldo
6750000

1 row in set (0.065 sec)

C)

```
MariaDB [perbankan]> select count(jumlah) from transaksi, cabang_bank;
```

count(jumlah)
150

1 row in set (0.058 sec)

D)

```
MariaDB [perbankan]> select nasabah.nama_nasabah, saldo from nasabah, rekening w
here saldo between 500000 and 2000000;
```

nama_nasabah	saldo
Sutopo	500000
Maryati	500000
Suparman	500000
Kartika Padmasari	500000
Budi Eko Prayogo	500000
Satria Eka Jaya	500000
Sari Murti	500000
Canka Lokananta	500000
Budi Murtono	500000
Sutopo	750000
Maryati	750000
Suparman	750000
Kartika Padmasari	750000
Budi Eko Prayogo	750000
Satria Eka Jaya	750000
Sari Murti	750000
Canka Lokananta	750000
Budi Murtono	750000
Sutopo	900000
Maryati	900000
Suparman	900000
Kartika Padmasari	900000
Budi Eko Prayogo	900000
Satria Eka Jaya	900000
Sari Murti	900000

Canka Lokananta	900000
Budi Murtono	900000
Sutopo	2000000
Maryati	2000000
Suparman	2000000
Kartika Padmasari	2000000
Budi Eko Prayogo	2000000
Satria Eka Jaya	2000000
Sari Murti	2000000
Canka Lokananta	2000000
Budi Murtono	2000000
Sutopo	1000000
Maryati	1000000
Suparman	1000000
Kartika Padmasari	1000000
Budi Eko Prayogo	1000000
Satria Eka Jaya	1000000
Sari Murti	1000000
Canka Lokananta	1000000
Budi Murtono	1000000
Sutopo	550000
Maryati	550000
Suparman	550000
Kartika Padmasari	550000
Budi Eko Prayogo	550000
Satria Eka Jaya	550000
Sari Murti	550000
Canka Lokananta	550000
Budi Murtono	550000

E)

```
MariaDB [perbankan]> select nasabah.nama_nasabah, transaksi.tanggal, transaksi.jumlah from nasabah, transaksi where jumlah>100000 order by transaksi.jumlah desc
```

nama_nasabah	tanggal	jumlah
Suparman	2009-11-15 00:00:00	200000
Sari Murti	2009-11-15 00:00:00	200000
Sutopo	2009-11-20 00:00:00	200000
Budi Eko Prayogo	2009-11-20 00:00:00	200000
Budi Murtono	2009-11-20 00:00:00	200000
Kartika Padmasari	2009-11-28 00:00:00	200000
Canka Lokananta	2009-11-28 00:00:00	200000
Suparman	2009-12-05 00:00:00	200000
Sari Murti	2009-12-05 00:00:00	200000
Maryati	2009-11-15 00:00:00	200000
Satria Eka Jaya	2009-11-15 00:00:00	200000
Kartika Padmasari	2009-11-20 00:00:00	200000
Canka Lokananta	2009-11-20 00:00:00	200000
Suparman	2009-11-28 00:00:00	200000
Sari Murti	2009-11-28 00:00:00	200000
Maryati	2009-12-05 00:00:00	200000
Satria Eka Jaya	2009-12-05 00:00:00	200000
Budi Eko Prayogo	2009-11-15 00:00:00	200000
Budi Murtono	2009-11-15 00:00:00	200000
Suparman	2009-11-20 00:00:00	200000
Sari Murti	2009-11-20 00:00:00	200000
Maryati	2009-11-28 00:00:00	200000
Satria Eka Jaya	2009-11-28 00:00:00	200000
Sutopo	2009-12-05 00:00:00	200000
Budi Eko Prayogo	2009-12-05 00:00:00	200000
Budi Murtono	2009-12-05 00:00:00	200000
Sutopo	2009-11-15 00:00:00	200000
Kartika Padmasari	2009-11-15 00:00:00	200000
Canka Lokananta	2009-11-15 00:00:00	200000
Maryati	2009-11-20 00:00:00	200000
Satria Eka Jaya	2009-11-20 00:00:00	200000
Sutopo	2009-11-28 00:00:00	200000
Budi Eko Prayogo	2009-11-28 00:00:00	200000
Budi Murtono	2009-11-28 00:00:00	200000
Kartika Padmasari	2009-12-05 00:00:00	200000
Canka Lokananta	2009-12-05 00:00:00	200000
Maryati	2009-11-15 00:00:00	150000
Satria Eka Jaya	2009-11-15 00:00:00	150000
Sutopo	2009-11-15 00:00:00	150000
Budi Eko Prayogo	2009-11-15 00:00:00	150000
Budi Murtono	2009-11-15 00:00:00	150000
Kartika Padmasari	2009-11-15 00:00:00	150000
Canka Lokananta	2009-11-15 00:00:00	150000
Suparman	2009-11-15 00:00:00	150000
Sari Murti	2009-11-15 00:00:00	150000

45 rows in set (0.064 sec)

F)

i. Tampilkan nomor transaksi dan jenis transaksi pada tanggal '2009-11-19'


```
MariaDB [perbankan]> select transaksi.no_transaksi, transaksi.jenis_transaksi from transaksi where tanggal = '2009-11-19';
```

no_transaksi	jenis_transaksi
10	debit
11	debit
12	debit

```
3 rows in set (0.001 sec)
```

ii. Tampilkan nama nasabah dan jenis transaksi dimana jenis transaksi adalah debit

```
MariaDB [perbankan]> select distinct nasabah.nama_nasabah, transaksi.jenis_transaksi from nasabah,transaksi where jenis_transaksi='debit';
```

nama_nasabah	jenis_transaksi
Sutopo	debit
Maryati	debit
Suparman	debit
Kartika Padmasari	debit
Budi Eko Prayogo	debit
Satria Eka Jaya	debit
Sari Murti	debit
Canka Lokananta	debit
Budi Murtono	debit

```
9 rows in set (0.001 sec)
```

iii. Tampilkan nama nasabah dan jenis transaksi dimana nama nasabah adalah Suparman

```
MariaDB [perbankan]> select nasabah.nama_nasabah, transaksi.jenis_transaksi from nasabah,transaksi where nasabah.nama_nasabah in ('Suparman');
```

nama_nasabah	jenis_transaksi
Suparman	debit
Suparman	debit
Suparman	kredit
Suparman	debit
Suparman	kredit
Suparman	kredit
Suparman	debit
Suparman	kredit
Suparman	debit
Suparman	debit
Suparman	debit
Suparman	kredit
Suparman	debit
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Suparman	debit
Suparman	debit
Suparman	debit
Suparman	debit
Suparman	kredit
Suparman	kredit
Suparman	debit
Suparman	debit

```
30 rows in set (0.001 sec)
```

iv. Tampilkan jumlah saldo yang dimiliki Suparman

```
MariaDB [perbankan]> select sum(saldo) from rekening where no_rekening=105;
```

sum(saldo)
2000000

```
1 row in set (0.001 sec)
```

v. Tampilkan total jumlah transaksi yang dilakukan oleh nasabah dengan id nasabah adalah 3

```
MariaDB [perbankan]> select sum(jumlah) from transaksi where id_nasabahFK=3;
+-----+
| sum(jumlah) |
+-----+
|      340000 |
+-----+
1 row in set (0.001 sec)
```

G) Tidak ada soal yang diberikan