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## Praktikum Sistem Basis Data Modul 8

### 1. Praktikum

a.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\fix>cd\
C:\>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: 10.4.11-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 by transaksi.jenis_transaksi;
```

Jenis Transaksi	Jumlah (Rp)	Jumlah Transaksi
debit	670000	12
kredit	1120000	11

2 rows in set (0.001 sec)

## 2. Tugas

a.

```
MariaDB [perbankan]> select jenis_transaksi, sum(jumlah) as "Jumlah (Rp)" from transaksi, nasabah where nasabah.nama_nasabah in ('Kartika Padmasari') group by transaksi.jenis_transaksi;
```

jenis_transaksi	Jumlah (Rp)
debit	930000
kredit	1420000

2 rows in set (0.002 sec)

b.

```
MariaDB [perbankan]> select sum(saldo) as "Jumlah Total Saldo" from rekening, nasabah 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 where 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 |
```



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	kredit
Suparman	debit
Suparman	kredit
Suparman	debit
Suparman	debit
Suparman	debit
Suparman	kredit
Suparman	debit
Suparman	kredit
Suparman	debit
Suparman	debit
Suparman	kredit
Suparman	kredit
Suparman	kredit
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 Superman

```
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