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## Praktikum Sistem Basis Data Modul 10

### 1. Praktiku m 4.

```
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
MariaDB [perbankan]>
```

```
5.
MariaDB [perbankan]> select * from nasabah where nasabah.id_nasabah in(select di
stinct transaksi.id_nasabahFK from transaksi where jenis_transaksi='kredit');
+-----+-----+-----+
| 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 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
+-----+-----+-----+
6 rows in set (0.353 sec)
```

```
6.
MariaDB [perbankan]> select * from nasabah where nasabah.id_nasabah not in(select
t distinct transaksi.id_nasabahFK from transaksi);
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 11 | Rifai | Jl. Klaten 121 |
| 21 | Rifai | Jl. Klaten 121 |
+-----+-----+-----+
4 rows in set (0.002 sec)
```

7.

```
MariaDB [perbankan]> select cabang_bank.kode_cabang, cabang_bank.nama_cabang, av
g(rekening.saldo) as rata2 from cabang_bank, rekening where cabang_bank.kode_cab
ang=rekening.kode_cabangFK group by cabang_bank.kode_cabang having rata2 >= all
(select avg(saldo) from rekening group by kode_cabangFK);
```

| kode_cabang | nama_cabang            | rata2        |
|-------------|------------------------|--------------|
| BRUB        | Bank Rut Unit Boyolali | 2500000.0000 |

1 row in set (0.166 sec)

8.

```
MariaDB [perbankan]> select * from transaksi where jumlah > (select avg(jumlah)
from transaksi);
```

| no_transaksi | jumlah | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal        |
|--------------|--------|--------------|---------------|-----------------|----------------|
| 00:00 : 6    | 200000 | 1            | 104           | kredit          | 2009-11-15 00: |
| 00:00 : 7    | 150000 | 9            | 110           | kredit          | 2009-11-15 00: |
| 00:00 : 10   | 100000 | 4            | 107           | debit           | 2009-11-19 00: |
| 00:00 : 11   | 100000 | 2            | 103           | debit           | 2009-11-19 00: |
| 00:00 : 13   | 200000 | 4            | 107           | kredit          | 2009-11-20 00: |
| 00:00 : 15   | 100000 | 1            | 104           | kredit          | 2009-11-22 00: |
| 00:00 : 19   | 100000 | 10           | 108           | debit           | 2009-11-26 00: |
| 00:00 : 21   | 200000 | 2            | 103           | kredit          | 2009-11-28 00: |
| 00:00 : 22   | 100000 | 3            | 105           | kredit          | 2009-11-28 00: |
| 00:00 : 27   | 100000 | 2            | 103           | kredit          | 2009-12-05 00: |
| 00:00 : 28   | 200000 | 5            | 102           | kredit          | 2009-12-05 00: |
| 00:00 : 29   | 100000 | 7            | 109           | debit           | 2009-12-05 00: |

12 rows in set (0.003 sec)

2. Tug  
as 1.

```
MariaDB [perbankan]> select distinct jumlah from transaksi where jumlah >= all (
select max(jumlah) from transaksi);
```

| jumlah |
|--------|
| 200000 |

1 row in set (0.001 sec)

2.

```
MariaDB [perbankan]> select distinct jumlah from transaksi where jumlah <= all (
select min(jumlah) from transaksi);
```

| jumlah |
|--------|
| 200000 |

1 row in set (0.004 sec)

MariaDB [perbankan]>

3.

```
MariaDB [perbankan]> select distinct nasabah.nama_nasabah, transaksi.jumlah from
transaksi, nasabah where jumlah >= all (select max(jumlah) from transaksi);
```

| nama_nasabah      | jumlah  |
|-------------------|---------|
| 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 |
| Rifai             | 2000000 |

10 rows in set (0.002 sec)

4.

```
MariaDB [perbankan]> select distinct cabang_bank.nama_cabang from cabang_bank wh
ere cabang_bank.kode_cabang not in (select distinct rekening.kode_cabangFK from
rekening);
```

| nama_cabang            |
|------------------------|
| Bank Rut Unit Jakarta  |
| Bank Rut Unit Papua    |
| Bank Rut Unit Wonogiri |

3 rows in set (0.058 sec)

5.

```
MariaDB [perbankan]> select rekening.no_rekening, rekening.saldo from rekening w
here saldo > (select avg(saldo) from rekening);
```

| no_rekening | saldo    |
|-------------|----------|
| 105         | 20000000 |
| 106         | 30000000 |
| 108         | 50000000 |

3 rows in set (0.001 sec)

6.

a. Membuat query menampilkan nama nasabah dengan jumlah saldo terbesar

```
MariaDB [perbankan]> select distinct nasabah.nama_nasabah, rekening.saldo from r
ekening, nasabah where saldo >= all (select max(saldo) from rekening);
```

| nama_nasabah      | saldo    |
|-------------------|----------|
| Sutopo            | 50000000 |
| Maryati           | 50000000 |
| Suparman          | 50000000 |
| Kartika Padmasari | 50000000 |
| Budi Eko Prayogo  | 50000000 |
| Satria Eka Jaya   | 50000000 |
| Sari Murti        | 50000000 |
| Canka Lokananta   | 50000000 |
| Budi Murtono      | 50000000 |
| Rifai             | 50000000 |

10 rows in set (0.002 sec)

**b. Membuat query menampilkan nama nasabah dengan jumlah saldo terkecil**

```
MariaDB [perbankan]> select distinct nasabah.nama_nasabah, rekening.saldo from rekening, nasabah where saldo <= all (select min(saldo) from rekening);
```

| nama_nasabah      | saldo |
|-------------------|-------|
| Sutopo            | 0     |
| Maryati           | 0     |
| Suparman          | 0     |
| Kartika Padmasari | 0     |
| Budi Eko Prayogo  | 0     |
| Satria Eka Jaya   | 0     |
| Sari Murti        | 0     |
| Canka Lokananta   | 0     |
| Budi Murtono      | 0     |
| Rifai             | 0     |

10 rows in set (0.001 sec)

**c. Membuat query menampilkan nama nasabah dengan jumlah saldo diatas rata-rata**

```
MariaDB [perbankan]> select nasabah.nama_nasabah, rekening.saldo from rekening, nasabah where saldo > (select avg(saldo) from rekening);
```

| nama_nasabah      | saldo   |
|-------------------|---------|
| 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 |
| Rifai             | 2000000 |
| Rifai             | 2000000 |
| Sutopo            | 3000000 |
| Maryati           | 3000000 |
| Suparman          | 3000000 |
| Kartika Padmasari | 3000000 |
| Budi Eko Prayogo  | 3000000 |
| Satria Eka Jaya   | 3000000 |
| Sari Murti        | 3000000 |
| Canka Lokananta   | 3000000 |
| Budi Murtono      | 3000000 |
| Rifai             | 3000000 |
| Rifai             | 3000000 |
| Sutopo            | 5000000 |
| Maryati           | 5000000 |
| Suparman          | 5000000 |
| Kartika Padmasari | 5000000 |
| Budi Eko Prayogo  | 5000000 |
| Satria Eka Jaya   | 5000000 |
| Sari Murti        | 5000000 |
| Canka Lokananta   | 5000000 |
| Budi Murtono      | 5000000 |
| Rifai             | 5000000 |
| Rifai             | 5000000 |

33 rows in set (0.001 sec)

**d. Membuat query menampilkan nama nasabah dengan jumlah saldo dibawah rata-rata**



```
MariaDB [perbankan]> select nasabah.nama_nasabah, rekening.saldo from rekening, nasabah where saldo < (select avg(saldo) from rekening);
```

| 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  |
| Rifai             | 500000  |
| Rifai             | 500000  |
| Sutopo            | 350000  |
| Maryati           | 350000  |
| Suparman          | 350000  |
| Kartika Padmasari | 350000  |
| Budi Eko Prayogo  | 350000  |
| Satria Eka Jaya   | 350000  |
| Sari Murti        | 350000  |
| Canka Lokananta   | 350000  |
| Budi Murtono      | 350000  |
| Rifai             | 350000  |
| Rifai             | 350000  |
| 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  |
| Rifai             | 750000  |
| Rifai             | 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  |
| Rifai             | 900000  |
| Rifai             | 900000  |
| Sutopo            | 1000000 |
| Maryati           | 1000000 |
| Suparman          | 1000000 |
| Kartika Padmasari | 1000000 |
| Budi Eko Prayogo  | 1000000 |
| Satria Eka Jaya   | 1000000 |
| Sari Murti        | 1000000 |
| Canka Lokananta   | 1000000 |

e. Membuat query menampilkan nama cabang bank yang memiliki nomor rekening

```
MariaDB [perbankan]> select distinct cabang_bank.nama_cabang from cabang_bank where cabang_bank.kode_cabang in (select distinct rekening.kode_cabangFK from rekening);
```

| nama_cabang             |
|-------------------------|
| Bank Rut Unit Boyolali  |
| Bank Rut Unit Klaten    |
| Bank Rut Unit Magelang  |
| Bank Rut Unit Surakarta |

4 rows in set (0.001 sec)

7. Tidak diberikan soal

3. Plu  
s 1.

```
MariaDB [datakuliah1] > select mahasiswa.nama_mhs from mahasiswa where mahasiswa.NIM_mhs not in (select distinct mahasiswa_has_matkul.NIM_mhsFK from mahasiswa_has_matkul);
```

| nama_mhs |
|----------|
| Ali      |
| Arif     |
| Hanif    |
| Hanifah  |
| Hasna    |
| Azie     |
| Rezky    |
| Danang   |
| Irvan    |
| Rifa'i   |

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

2.

```
MariaDB [datakuliah1] > select mahasiswa.nama_mhs from mahasiswa where mahasiswa.NIM_mhs in (select distinct mahasiswa_has_dosen.NIM_mhsFK from mahasiswa_has_dosen where id_dosenFK='04');
```

```
Empty set (0.034 sec)
```

3.

```
MariaDB [datakuliah1] > update matkul  
-> set id_matkul = '025'  
-> where nama_matkul = 'Komunikasi Inter 2';
```

```
Query OK, 0 rows affected (0.022 sec)  
Rows matched: 0 Changed: 0 Warnings: 0
```