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Praktikum Sistem Basis Data Modul 10

1. Praktikum

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, avg(rekening.saldo) as rata2 from cabang_bank, rekening where cabang_bank.kode_cabang=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 | 1 | 104 | kredit | 2009-11-15 00: |
| 00:00 | 7 | 9 | 110 | kredit | 2009-11-15 00: |
| 00:00 | 150000 | 4 | 107 | debit | 2009-11-19 00: |
| 00:00 | 100000 | 2 | 103 | debit | 2009-11-19 00: |
| 00:00 | 13 | 4 | 107 | kredit | 2009-11-20 00: |
| 00:00 | 200000 | 1 | 104 | kredit | 2009-11-22 00: |
| 00:00 | 100000 | 10 | 108 | debit | 2009-11-26 00: |
| 00:00 | 100000 | 2 | 103 | kredit | 2009-11-28 00: |
| 00:00 | 22 | 3 | 105 | kredit | 2009-11-28 00: |
| 00:00 | 27 | 2 | 103 | kredit | 2009-12-05 00: |
| 00:00 | 28 | 5 | 102 | kredit | 2009-12-05 00: |
| 00:00 | 29 | 7 | 109 | debit | 2009-12-05 00: |

12 rows in set (0.003 sec)

2. Tugas

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 |
|--------|
| 20000 |

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,n
asabah 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 wh
ere cabang_bank.kode_cabang in (select distinct rekening.kode_cabangFK from reke
ning);
```

| 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. Plus

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
```