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UAS PRAKTIKUM SISTEM BASIS DATA

Nomer 1

```
MariaDB [perbankan]> select DISTINCT rekening.no_rekening, nasabah.nama_nasabah
from transaksi LEFT OUTER JOIN nasabah ON transaksi.id_nasabah=nasabah.id_nasabah
NATURAL JOIN rekening LEFT OUTER JOIN nasabah_has_rekening USING(no_rekening)
where tanggal>'2009-12-1' GROUP BY nasabah.id_nasabah ORDER BY nasabah.id_nasabah;
```

| no_rekening | nama_nasabah |
|-------------|-------------------|
| 109 | NULL |
| 103 | Maryati |
| 101 | Kartika Padmasari |
| 102 | Budi Eko Prayogo |
| 110 | Canka Lokananta |
| 114 | Amin |
| 115 | Amir |
| 116 | Apip |
| 117 | Acil |
| 118 | Ajeng |
| 119 | Ayu |
| 120 | Ahang |
| 121 | Aisyah |
| 114 | Amar |
| 115 | Agus |

15 rows in set (0.00 sec)

```
MariaDB [perbankan]> select DISTINCT rekening.no_rekening, nasabah.nama_nasabah
from transaksi INNER JOIN nasabah ON transaksi.id_nasabah=nasabah.id_nasabah NATURAL JOIN
rekening INNER JOIN nasabah_has_rekening USING(no_rekening) where tanggal>'2009-12-1'
GROUP BY nasabah.id_nasabah ORDER BY nasabah.id_nasabah;
```

| no_rekening | nama_nasabah |
|-------------|-------------------|
| 103 | Maryati |
| 101 | Kartika Padmasari |
| 102 | Budi Eko Prayogo |
| 110 | Canka Lokananta |
| 114 | Amin |
| 115 | Amir |
| 116 | Apip |
| 117 | Acil |
| 118 | Ajeng |
| 119 | Ayu |
| 120 | Ahang |
| 121 | Aisyah |
| 114 | Amar |
| 115 | Agus |

14 rows in set (0.00 sec)

Nomer 2

```
MariaDB [perbankan]> select DISTINCT nasabah_has_rekening.id_nasabahFK, cabang_bank.nama_cabang, SUM(rekening.saldo-75000) as "Sisa saldo" from nasabah_has_rekening JOIN rekening on nasabah_has_rekening.no_rekeningFK=rekening.no_rekening JOIN cabang_bank on rekening.kode_cabangFK=cabang_bank.kode_cabang GROUP BY id_nasabahFK HAVING SUM(rekening.saldo)>0;
```

| id_nasabahFK | nama_cabang | Sisa saldo |
|--------------|-----------------------------|------------|
| 2 | Bank Rut Unit Surakarta | 675000 |
| 3 | Bank Rut Unit Surakarta | 2925000 |
| 4 | Bank Rut Unit Surakarta | 1350000 |
| 5 | Bank Rut Unit Surakarta | 1200000 |
| 6 | Bank Rut Unit Boyolali | -75000 |
| 7 | Bank Rut Unit Boyolali | -75000 |
| 8 | Bank Rut Unit Klaten | 300000 |
| 9 | Bank Rut Unit Yogyakarta | 475000 |
| 10 | Bank Rut Unit Boyolali | 5105000 |
| 11 | Bank Rut Unit Pati | -55000 |
| 12 | Bank Rut Unit Lembang | 265000 |
| 13 | Bank Rut Unit Kudus | 455000 |
| 14 | Bank Rut Unit Gunung Kidul | 45000 |
| 15 | Bank Rut Unit Gunung Cemani | 45000 |
| 16 | Bank Rut Unit Wonogiri | -25000 |
| 17 | Bank Rut Unit Tegal | 127000 |
| 18 | Bank Rut Unit Tegal | 159500 |
| 19 | Bank Rut Unit Rembang | -30500 |
| 20 | Bank Rut Unit Tegal | 129700 |

19 rows in set (0.00 sec)

Nomer 3

Membuat user 003

```
MariaDB [mysql]> create user '003'@'localhost' identified by '003';  
Query OK, 0 rows affected (0.00 sec)
```

Memberikan privilege ke user

```
MariaDB [mysql]> GRANT CREATE on perbankan.aku to '003'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [mysql]> GRANT INSERT on perbankan.nasabah to '003'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [mysql]> GRANT SELECT on perbankan.nasabah to '003'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [mysql]> GRANT CREATE on perbankan.nasabah to '003'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [mysql]> GRANT UPDATE on perbankan.nasabah to '003'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [mysql]> GRANT DELETE on perbankan.nasabah to '003'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [mysql]>
```

Masuk dengan user yang telah dibuat

```
C:\xampp\mysql\bin>mysql -u 003 -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 25
Server version: 10.1.19-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan;
```

Melakukan operasi CRUD

```
MariaDB [perbankan]> select * from nasabah;
```

| 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 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |
| 11 | Amin | Jl. Bebek 12 |
| 12 | Amir | Jl. Ayam 77 |
| 13 | Apip | Jl. Bango 69 |
| 14 | Acil | Jl. Mop 5 |
| 15 | Ajeng | Jl. Gagang 3 |
| 16 | Ayu | Jl. Sudiro 1 |
| 17 | Abang | Jl. Murai 33 |
| 18 | Aisyah | Jl. Meenco Raya 4 |
| 19 | Amar | Jl. Kepodang 9 |
| 20 | Agus | Jl. Kacer 45 |
| 69 | Om Ndu | Solo |

```
20 rows in set (0.00 sec)
```

```
MariaDB [perbankan]> insert into nasabah values (99,"Kentung","Jl. in aja dulu");
Query OK, 1 row affected (0.07 sec)
```

```
MariaDB [perbankan]> update nasabah set nama_nasabah="Gentong" where id_nasabah=99;
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [perbankan]> delete from nasabah where id_nasabah=99;
Query OK, 1 row affected (0.08 sec)
```

```
MariaDB [perbankan]> create table aku (id INTEGER, nama VARCHAR(20));
Query OK, 0 rows affected (0.29 sec)
```

Nomer 4

```
MariaDB [perkuliahan]> update mahasiswa_has_matkul set id_matkulFK=1 where id_matkulFK = (select id_matkul from matkul where id_matkul=2);
Query OK, 2 rows affected (0.28 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [perkuliahan]> select * from mahasiswa_has_matkul;
```

| nimFK | id_matkulFK |
|-------|-------------|
| 11 | 1 |
| 11 | 3 |
| 22 | 3 |
| 33 | 1 |
| 33 | 3 |

```
5 rows in set (0.00 sec)
```