

Nama : Rifqi Alwan Pramasandy

NIM : L200180008

Kelas A

UAS PRAKTIKUM SISTEM BASISDATA

1. Menampilkan no_rek, nama_nasabah yang melakukan transaksi di atas tanggal '1 Desember 2009' diurutkan berdasarkan id_nasabah.

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

no_rekening	nama_nasabah
101	NULL
101	Sutopo
101	Maryati
101	Kartika Padmasari
101	Budi Eko Prayogo
101	Satria Eka Jaya
101	Indri Hapsari
101	Sari Murni
101	Canka Lokananta
101	Budi Murtono
101	Joko

11 rows in set (0.04 sec)

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

no_rekening	nama_nasabah
101	Sutopo
101	Maryati
101	Kartika Padmasari
101	Budi Eko Prayogo
101	Satria Eka Jaya
101	Indri Hapsari
101	Sari Murni
101	Canka Lokananta
101	Budi Murtono
101	Joko

10 rows in set (0.00 sec)

2. Menampilkan id_nasabah, nama_cabang, jumlah saldo (dalam sisa saldo) dari masing2 id_nasabah dikurangi 75.000 untuk pembayaran SPP.

```
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
1	Bank Rut Unit Magelang	825000
2	Bank Rut Unit Surakarta	675000
3	Bank Rut Unit Magelang	485000
4	Bank Rut Unit Surakarta	1350000
5	Bank Rut Unit Surakarta	1200000
6	Bank Rut Unit Boyolali	-75000
7	Bank Rut Unit Klaten	75000
8	Bank Rut Unit Klaten	225000
9	Bank Rut Unit Yogyakarta	475000
10	Bank Rut Unit Boyolali	5105000

10 rows in set (0.12 sec)

3. Membuat user baru dengan NIM “008”. Kemudian beri privilege pada user, agar dapat melakukan CRUD. Kemudian memberi masing – masing contoh CRUD, setelah berhasil memeberikan hak akses pada user.

```
MariaDB [(none)]> use mysql;
Database changed
MariaDB [mysql]> CREATE user '008'@'localhost' identified by '008';
Query OK, 0 rows affected (0.15 sec)

MariaDB [mysql]> GRANT CREATE on perbankan.rifqi to '008'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> GRANT INSERT on perbankan.nasabah to '008'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> GRANT SELECT on perbankan.nasabah to '008'@'localhost';
Query OK, 0 rows affected (0.03 sec)

MariaDB [mysql]> GRANT CREATE on perbankan.nasabah to '008'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> GRANT UPDATE on perbankan.nasabah to '008'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> GRANT DELETE on perbankan.nasabah to '008'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> exit
Bye
```

```
c:\xampp\mysql\bin>mysql -u 008 -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34
Server version: 10.1.38-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)]> user perbankan;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'user perban
kan' at line 1
MariaDB [(none)]> use perbankan;
Database changed
```

```
MariaDB [perbankan]> SELECT * FROM nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl.Jendral Sudirman |
| 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 |
| 7 | Indri Hapsari | Jl.Sutoyo 5 |
| 8 | Sari Murni | Jl.Pangandaran 15 |
| 9 | Canka Lokananta | Jl.Tidar 86 |
| 10 | Budi Murtono | Jl.Menak 22 |
| 12 | Joko | Boyolali |
| 31 | Susilo | Sukoharjo |
| 32 | Susi | Karanganyar |
| 41 | Aminah | Solo |
+-----+-----+-----+
14 rows in set (0.00 sec)

MariaDB [perbankan]> INSERT INTO nasabah VALUE (22,"Bambang Sumarno","Jl. Kemerdekaan");
Query OK, 1 row affected (0.25 sec)

MariaDB [perbankan]> UPDATE nasabah SET nama_nasabah="Aminah Syariah" WHERE id_nasabah=41;
Query OK, 1 row affected (0.27 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah=32;
Query OK, 1 row affected (0.20 sec)

MariaDB [perbankan]> CREATE table rifqi (id INTEGER, nama VARCHAR(45));
Query OK, 0 rows affected (0.43 sec)

MariaDB [perbankan]> exit
Bye
```

4. Subquery

```
MariaDB [perkuliahan]> UPDATE mahasiswa_has_matkul set kode_matkul="10" WHERE kode_matkul = (SELECT kode_matkul from matkul where kode_matkul="1");
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0

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

id_mahasiswa	kode_matkul
1	10
2	10
3	3
4	4
5	5

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