NAMA   : DHIYA ULHAQ A

NIM   : L200180009

KELAS   : A

UAS PRAKTIKUM SISTEM BASIS DATA

1. Tampilkan no_rek, nama_nasabah yang melakukan transaksi di atas tanggal '1 Desember 2009' diurutkan berdasarkan id_nasabah Nb: masing2 id_nasabah menampilkan satu transaksi, tidak boleh berulang.

```
MariaDB [perbankan]> select distinct rekening.no_rekening, nasabah.nama_nasabah from transaksi left outer join nasabah o
n transaksi.id_nasabahfk=nasabah.id_nasabah natural join rekening left outer join nasabah_has_rekening using(no_rekening
fk) 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 | Suparman         |
|         101 | Kartika Padmasari |
|         101 | Budi Eko Prayoga |
|         101 | Canka Lokananta  |
+-------------+------------------+
7 rows in set (0.11 sec)
```

```
MariaDB [perbankan]> select distinct rekening.no_rekening, nasabah.nama_nasabah from transaksi inner join nasabah on tra
nsaksi.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 | Suparman         |
|         101 | Kartika Padmasari |
|         101 | Budi Eko Prayoga |
|         101 | Canka Lokananta  |
+-------------+------------------+
6 rows in set (0.21 sec)
```

2. Tampilkan 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-7500
0) as 'sisa saldo' from nasabah_has_rekening join rekening on nasabah_has_rekening.no_rekeningfk=rekening.no_rekening jo
in 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 |
|          10 | Bank Rut Unit Boyolali  |    4925000 |
|          11 | Bank Rut Unit Palembang |     -55000 |
|          12 | Bank Rut Unit Lampung   |     225000 |
|          13 | Bank Rut Unit Bandung   |     455000 |
|          14 | Bank Rut Unit Giri      |      45000 |
|          15 | Bank Rut Unit Cileduk   |      45000 |
|          16 | Bank Rut Unit Wonogiri  |     -25000 |
|          17 | Bank Rut Unit Tegal     |     127000 |
|          18 | Bank Rut Unit Tegal     |     159500 |
|          19 | Bank Rut Unit Jember    |     -30500 |
|          20 | Bank Rut Unit Tegal     |     129700 |
+-------------+-------------------------+------------+
17 rows in set (0.14 sec)
```

3. Buatlah user baru dengan No. NIM 3 digit belakang. Kemudian beri privilege pada user, agar dapat melakukan CRUD. Kemudian berikan masing – masing contoh CRUD, setelah berhasil memeberikan hak akses pada user.

```
MariaDB [mysql]> create user '009'@'localhost' identified by '009';
Query OK, 0 rows affected (0.25 sec)

MariaDB [mysql]> grant create on perbankan.aku to '009'@'localhost';
Query OK, 0 rows affected (0.06 sec)
```

```
MariaDB [mysql]> grant insert on perbankan.nasabah to '009'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> grant select on perbankan.nasabah to '009'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> grant create on perbankan.nasabah to '009'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> grant update on perbankan.nasabah to '009'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> grant delete on perbankan.nasabah to '009'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

```
C:\xampp\mysql\bin>mysql -u 009 -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 57
Server version: 10.1.36-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;
```

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 Prayoga  | Jl.Kantil 30            |
|          6 | Satria Eka Jaya   | Slamet Riyadi 45        |
|          8 | Sari Murti        | Jl.Pangandaran 11       |
|          9 | Canka Lokananta   | Jl.Tidar 86             |
|         10 | Budi Murtono      | Jl.Merak 22             |
|         20 | Dino              | Lampung                 |
+------------+-------------------+-------------------------+
10 rows in set (0.00 sec)

MariaDB [perbankan]> insert into nasabah values (70,"Dora","Jl. Explorer");
Query OK, 1 row affected (0.18 sec)

MariaDB [perbankan]> update nasabah set nama_nasabah='Gery' where id_nasabah=70;
Query OK, 1 row affected (0.16 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]> delete from nasabah where id_nasabah=70;
Query OK, 1 row affected (0.07 sec)

MariaDB [perbankan]> create table aku (id integer, nama varchar(20));
Query OK, 0 rows affected (0.31 sec)
```

4. Mata kuliah A tidak memenuhi standar kebijakan prodi akan pengadaan/pengelenggaraan kelas karena < 10 mahasiswa disebabkan kurang minatnya mahasiswa akan mata kuliah A. Sehingga mahasiswa yang mengambil mata kuliah A diharuskan revisi ke mata kuliah lain(atau yang sudah terselenggara).

```
MariaDB [perkuliahan]> update mahasiswa_has_matkul set kode_matkul=1 where kode_matkul = (select kode_matkul from matkul
 where kode_matkul=2);
Query OK, 1 row affected (0.13 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perkuliahan]> select*from mahasiswa_has_matkul;
+--------------+-------------+
| id_mahasiswa | kode_matkul |
+--------------+-------------+
|            1 |           1 |
|            2 |           1 |
|            3 |           3 |
|            4 |           4 |
|            5 |           5 |
+--------------+-------------+
5 rows in set (0.00 sec)
```