

UAS
PRAKTIKUM SISTEM BASIS DATA
UNIVERSITAS MUHAMMADIYAH SURAKARTA

NAMA : MUHAMMAD MASYKUR

NIM : L200150018

KELAS : A

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 transaksi.no_rekeningFK as nomor_rekening, nasabah.nama_nasabah as nama
-> from nasabah
-> inner join transaksi
-> on
-> nasabah.id_nasabah = transaksi.id_nasabahFK
-> where transaksi.tanggal > '2009/12/01'
-> order by transaksi.id_nasabahFK;
```

nomor_rekening	nama
103	Maryati
101	Kartika Padmasari
102	Budi Eko Prayogo
110	Canka Lokananta

4 rows in set (0.001 sec)

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

```
MariaDB [perbankan1]> select distinct nhs.id_nasabahFK id, sum(r.saldo)- 75000 sisa, r.kode_cabangFK cabang
-> from rekening r, nasabah_has_rekening nhs
-> where nhs.no_rekeningFK = r.no_rekening
-> group by nhs.id_nasabahFK
-> having sisa > 0;
```

id	sisa	cabang
1	825000	BRUM
2	675000	BRUS
3	4925000	BRUM
4	1425000	BRUS
5	1275000	BRUS
8	375000	BRUK
9	475000	BRUY
10	5580000	BRUB
11	2225000	BRUSU
12	1125000	BRUBA
13	1925000	BRUBE
14	425000	BRUSA
15	25000	BRUTA
16	45000	BRUKR
17	2425000	BRUT

15 rows in set (0.001 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.

A. Membuat user dan memberi hak akses CRUD

```
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 100
Server version: 10.4.11-MariaDB mariadb.org binary distribution

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

MariaDB [(none)]> use perbankan1
Database changed
MariaDB [perbankan1]> grant select, insert, update, delete, create on *.* to '018'@'localhost';
Query OK, 0 rows affected (0.003 sec)
```

```
MariaDB [(none)]> use perbankan1
Database changed
MariaDB [perbankan1]> create table baru(
    -> id integer primary key,
    -> nama text);
Query OK, 0 rows affected (0.042 sec)

MariaDB [perbankan1]> _
```

B. Contoh penggunaan CRUD

```
MariaDB [perbankan1]> insert into baru values(1,'masykur');
Query OK, 1 row affected (0.005 sec)

MariaDB [perbankan1]> update baru
    -> set id = 18
    -> where nama = 'masykur';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan1]> select * from baru;
+-----+
| id | nama |
+-----+
| 18 | masykur |
+-----+
1 row in set (0.000 sec)

MariaDB [perbankan1]> delete from baru
    -> where nama = 'masykur';
Query OK, 1 row affected (0.004 sec)

MariaDB [perbankan1]> _
```

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 [modul2]> select count(mata_kuliahFK), mata_kuliahFK from mahasiswa group by mata_kuliahFK;
+-----+-----+
| count(mata_kuliahFK) | mata_kuliahFK |
+-----+-----+
|          2 | jarkom        |
|         10 | rpl           |
+-----+-----+
2 rows in set (0.023 sec)

MariaDB [modul2]> update mahasiswa
  -> set mata_kuliahFK = 'rpl'
  -> where mata_kuliahFK = (select mata_kuliahFK from mahasiswa group by mata_kuliahFK having count(mata_kuliahFK)<10);
Query OK, 2 rows affected (0.038 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [modul2]> select count(mata_kuliahFK), mata_kuliahFK from mahasiswa group by mata_kuliahFK;
+-----+-----+
| count(mata_kuliahFK) | mata_kuliahFK |
+-----+-----+
|          12 | rpl           |
+-----+-----+
1 row in set (0.020 sec)
```