

UJIAN AKHIR SEMESTER PRAKTIKUM SISTEM BASIS DATA

Nama : Hadid Aldio Indratama
NIM : L200160055
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 no_rekening, nasabah.nama_nasabah
-> FROM nasabah
-> INNER JOIN transaksi
-> ON nasabah.id_nasabah=transaksi.id_nasabahFK
-> WHERE transaksi.tanggal>'2009-12-01'
-> ORDER BY transaksi.id_nasabahFK;
```

no_rekening	nama_nasabah
103	Maryati
101	Kartika Padmasari
102	Budi Eko Prayogo
110	Canka Lokanata

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 [perbankan]> SELECT DISTINCT nasabah_has_rekening.id_nasabahFK AS id_nasabah,
-> SUM(rekening.saldo)-75000 AS sisa_saldo,
-> rekening.kode_cabangFK AS kode_cabang
-> FROM rekening, nasabah_has_rekening
-> WHERE nasabah_has_rekening.no_rekeningFK=rekening.no_rekening
-> GROUP BY nasabah_has_rekening.id_nasabahFK
-> HAVING sisa_saldo>0;
```

id_nasabah	sisa_saldo	kode_cabang
1	825000	BRUM
2	675000	BRUS
3	4925000	BRUM
4	1425000	BRUS
5	1275000	BRUS
8	375000	BRUK
9	475000	BRUY
10	5180000	BRUB

8 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.

```
Microsoft Windows [Version 10.0.18363.900]
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C:\Users\Hadid Aldio I>cd\

C:\>cd 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 598
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)]>
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> INSERT INTO user (user, password) VALUES ('055','123');
Query OK, 1 row affected (0.003 sec)

MariaDB [perbankan]> GRANT SELECT, INSERT, UPDATE, DELETE
    -> ON perbankan.nasabah
    -> TO '055';
Query OK, 0 rows affected (0.001 sec)

MariaDB [perbankan]>
MariaDB [perbankan]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [perbankan]> exit;
Bye
```

```

C:\xampp\mysql\bin>mysql -u 055
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 601
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]> SELECT * FROM nasabah;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl.Jenderal 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 31 |
| 6 | Satria Eka Jaya | Jl.Slamet Riyadi 45 |
| 8 | Sari Murti | Jl.Pangandaran 11 |
| 9 | Canka Lokanata | Jl.Tidar 86 |
| 10 | Budi Murtono | Jl.Merak 22 |
+-----+-----+-----+
9 rows in set (0.000 sec)

MariaDB [perbankan]> INSERT INTO nasabah(id_nasabah, nama_nasabah, alamat_nasabah)
    -> VALUES (23,'Hadid Aldio Indratama', 'Sukoharjo');
Query OK, 1 row affected (0.001 sec)

MariaDB [perbankan]> UPDATE nasabah
    -> SET alamat_nasabah='Wonogiri'
    -> WHERE id_nasabah=23;
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perbankan]> DELETE FROM nasabah
    -> WHERE id_nasabah=23;
Query OK, 1 row affected (0.002 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 [kuliah]> SELECT id_matakuliahFK AS id_matakuliah,
    -> COUNT(id_matakuliahFK) AS jumlah
    -> FROM mahasiswa_has_matakuliah
    -> GROUP BY id_matakuliahFK;
+-----+-----+
| id_matakuliah | jumlah |
+-----+-----+
| 1 | 1 |
| 2 | 10 |
+-----+-----+
2 rows in set (0.000 sec)

```

```

MariaDB [kuliah]> UPDATE mahasiswa_has_matakuliah
  -> SET id_matakuliahFK=(SELECT id_mahasiswaFK
  -> FROM mahasiswa_has_matakuliah GROUP BY id_matakuliahFK
  -> HAVING COUNT(id_matakuliahFK)>10)
  -> WHERE id_mahasiswaFK=(SELECT id_mahasiswaFK
  -> FROM mahasiswa_has_matakuliah GROUP BY id_matakuliahFK
  -> HAVING COUNT(id_matakuliahFK)<10);
Query OK, 1 row affected (0.005 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

```

MariaDB [kuliah]> SELECT id_matakuliahFK AS id_matakuliah,
  -> COUNT(id_matakuliahFK) AS jumlah
  -> FROM mahasiswa_has_matakuliah
  -> GROUP BY id_matakuliahFK;
+-----+-----+
| id_matakuliah | jumlah |
+-----+-----+
|          NULL |       0 |
|             2 |      10 |
+-----+-----+
2 rows in set (0.001 sec)

```