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UJIAN AKHIR SEMESTER

PRAKTIKUM SISTEM BASIS DATA

1. Tampilkan no_rekening, nama_nasabah yang melakukan transaksi diatas tanggal '1 Desember 2009' diurutkan berdasarkan id_nasabah

Nb : masing-masing id_nasabah menampilkan satu transaksi, tidak boleh berulang

(Kerjakan Soal menggunakan Using, On, Natural, Order)

```
MariaDB [perbankan]> select distinct no_rekening, nama_nasabah from nasabah, rekening, transaksi where nasabah.id_nasabah=transaksi.id_nasabahFK and rekening.no_rekening=transaksi.no_rekeningFK and tanggal > '2009-12-1' group by id_nasabahFK order by id_nasabahFK;
```

no_rekening	nama_nasabah
104	Sutopo
103	Maryati
105	Suparman
101	Kartika Padmasari
107	Budi Eko Prayogo
109	Indri Hapsari
110	Canka Lokananda
108	Budi Murtono

8 rows in set (0.004 sec)

2. Tampilkan id_nasabah, nama_cabang, jumlah saldo (dalam sisa saldo) dari masing-masing id_nasabah dikurangi 75000 untuk pembayaran SPP

(kerjakan soal menggunakan having, group by, distinct)

```
XAMPP for Windows - mysql -u root
Database changed
MariaDB [perbankan]> select distinct id_nasabah, nama_cabang, saldo from nasabah, cabang_bank, rekening, nasabah_has_rekening where nasabah_has_rekening.id_nasabahFK=nasabah.id_nasabah and nasabah_has_rekening.no_rekeningFK=rekening.no_rekening and cabang_bank.kode_cabang=rekening.kode_cabangFK and (select sum(saldo-75000) from rekening);
ERROR 1146 (42S02): Table 'perbankan.rekening' doesn't exist
MariaDB [perbankan]> select distinct id_nasabah, nama_cabang, saldo from nasabah, cabang_bank, rekening, nasabah_has_rekening where nasabah_has_rekening.id_nasabahFK=nasabah.id_nasabah and nasabah_has_rekening.no_rekeningFK=rekening.no_rekening and cabang_bank.kode_cabang=rekening.kode_cabangFK and (select sum(saldo-75000) from rekening);
```

id_nasabah	nama_cabang	saldo
1	Bank Rut Unit Magelang	900000
2	Bank Rut Unit Surakarta	750000
3	Bank Rut Unit Magelang	2000000
3	Bank Rut Unit Surakarta	3000000
4	Bank Rut Unit Surakarta	500000
4	Bank Rut Unit Surakarta	1000000
5	Bank Rut Unit Surakarta	350000
5	Bank Rut Unit Surakarta	1000000
6	Bank Rut Unit Boyolali	0
7	Bank Rut Unit Boyolali	0
8	Bank Rut Unit Klaten	150000
8	Bank Rut Unit Klaten	300000
9	Bank Rut Unit Yogyakarta	550000
10	Bank Rut Unit Boyolali	5000000
10	Bank Rut Unit Yogyakarta	255000

15 rows in set (0.15 sec)

```
MariaDB [perbankan]>
```

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 memberikan hak akses pada user.

(Create, Read, Update, Delete masing-masing diberi contoh)

```

MariaDB [perbankan]> create user 'L206'@'localhost'
-> ;
Query OK, 0 rows affected (0.00 sec)

MariaDB [perbankan]> grant all privileges on perbankan.nasabah to 'L206'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [perbankan]> flush privileges;
Query OK, 0 rows affected (0.00 sec)

MariaDB [perbankan]> exit
Bye

Reza@DESKTOP-691JR9H c:\xampp
# mysql -u L206
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.1.37-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]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| nasabah              |
+-----+
1 row in set (0.00 sec)

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    |
| 7          | Indri Hapsari     | Jl. Sutopo 5           |
| 8          | Sari Murti        | Jl. Pangandaran 11     |
| 9          | Canka Lokananta   | Jl. Tidar 86           |
| 10         | Budi Murtono      | Jl. Merak 22           |
+-----+-----+-----+
10 rows in set (0.00 sec)

```

```

MariaDB [perbankan]> update nasabah set nama_nasabah='Reza' where id_nasabah='10';
Query OK, 1 row affected (0.10 sec)
Rows matched: 1  Changed: 1  Warnings: 0

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 |
| 7 | Indri Hapsari | Jl. Sutopo 5 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Reza | Jl. Merak 22 |
+-----+-----+-----+
10 rows in set (0.00 sec)

MariaDB [perbankan]> delete from nasabah where id_nasabah='10';
Query OK, 1 row affected (0.07 sec)

MariaDB [perbankan]> exit;

```

4. Mata Kuliah A tidak memenuhi standar kebijakan prodi akan pengadaan / penyelenggaraan 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)

(gunakan subquery untuk mendapatkan data-data berikut dari database data kuliah yang telah anda bangun pada modul 4 dan modul 5)

```

XAMPP for Windows - mysql -u root

MariaDB [kuliah]> select*from mhs_has_matkul;
+-----+-----+
| nimFK | id_matkulFK |
+-----+-----+
| L200180001 | IF001 |
| L200180002 | IF001 |
| L200180003 | IF003 |
| L200180005 | IF004 |
| L200180007 | IF002 |
| L200180011 | IF002 |
| L200180032 | IF005 |
| L200180012 | IF002 |
| L200180112 | IF002 |
| L200180119 | IF001 |
| L200180113 | IF003 |
| L200180122 | IF001 |
| L200180156 | IF002 |
+-----+-----+
13 rows in set (0.00 sec)

MariaDB [kuliah]> update mhs_has_matkul
-> set id_matkulFK='IF001' where id_matkulFK=(select id_matkul from matkul where id_matkul='IF002');
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5  Changed: 5  Warnings: 0

MariaDB [kuliah]> select*from mhs_has_matkul;
+-----+-----+
| nimFK | id_matkulFK |
+-----+-----+
| L200180001 | IF001 |
| L200180002 | IF001 |
| L200180003 | IF003 |
| L200180005 | IF004 |
| L200180007 | IF001 |
| L200180011 | IF001 |
| L200180032 | IF005 |
| L200180012 | IF001 |
| L200180112 | IF001 |
| L200180119 | IF001 |
| L200180113 | IF003 |
| L200180122 | IF001 |
| L200180156 | IF001 |
+-----+-----+
13 rows in set (0.00 sec)

```