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H

## Ujian Akhir Semester 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. (Kerjakan soal – soal menggunakan Using, On, Natural, Outer, Inner, Distinct )

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

no_rekening	nama_nasabah
102	Budi Eko Prayogo
110	Canka Lokananta
109	Indri Hapsari
101	Kartika Padmasari
103	Maryati

5 rows in set (0.037 sec)

2. Tampilkan id\_nasabah, nama\_cabang, jumlah saldo (dalam sisa saldo) dari masing2 id\_nasabah dikurangi 75.000 untuk pembayaran SPP (Kerjakan soal – soal menggunakan Having, Group By, Distinct)

```
MariaDB [perbankan]> select distinct id_nasabah, nama_cabang, (rekening.saldo-75000) as 'Sisa Saldo' from nasabah INNER JOIN cabang_bank INNER JOIN rekening INNER JOIN transaksi ON nasabah.id_nasabah = transaksi.id_nasabahFK and rekening.no_rekening = transaksi.no_rekeningFK and cabang_bank.kode_cabang = rekening.kode_cabangFK group by no_rekening;
```

id_nasabah	nama_cabang	Sisa Saldo
4	Bank Rut Unit Surakarta	425000
5	Bank Rut Unit Surakarta	275000
2	Bank Rut Unit Surakarta	675000
1	Bank Rut Unit Magelang	825000
3	Bank Rut Unit Magelang	1925000
3	Bank Rut Unit Surakarta	2925000
5	Bank Rut Unit Surakarta	925000
10	Bank Rut Unit Boyolali	4925000
7	Bank Rut Unit Boyolali	-75000
9	Bank Rut Unit Yogyakarta	475000

10 rows in set (0.041 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. (Creat, Read, Update, Delete masing – masing diberi contoh.)**

```
MariaDB [perbankan]> use mysql
Database changed
MariaDB [mysql]> create user '4098'@'localhost' identified by '1234';
Query OK, 0 rows affected (0.114 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.001 sec)

MariaDB [mysql]> grant insert on perbankan.nasabah to '4098'@'localhost';
Query OK, 0 rows affected (0.086 sec)

MariaDB [mysql]> grant select on perbankan.nasabah to '4098'@'localhost';
Query OK, 0 rows affected (0.048 sec)

MariaDB [mysql]> grant insert on perbankan.nasabah to '4098'@'localhost';
Query OK, 0 rows affected (0.048 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.000 sec)

MariaDB [mysql]> grant select on perbankan.nasabah to '4098'@'localhost';
Query OK, 0 rows affected (0.044 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.000 sec)

MariaDB [mysql]> grant update on perbankan.nasabah to '4098'@'localhost';
Query OK, 0 rows affected (0.062 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.000 sec)

MariaDB [mysql]> grant delete on perbankan.nasabah to '4098'@'localhost';
Query OK, 0 rows affected (0.052 sec)

MariaDB [mysql]> flush privileges;
Query OK, 0 rows affected (0.000 sec)
```

### a) Delete

```
MariaDB [perbankan]> delete from nasabah where nama_nasabah ="Sujiarti";
Query OK, 1 row affected (0.089 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. Sutoyo 5
8	Sari Murti	Jl. Pangandaran 11
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtiono	Jl. Merak 22
11	Kartika	Jl. Mawar Putih 29

```
11 rows in set (0.000 sec)
```

### b) Insert

```
MariaDB [perbankan]> insert into cabang_bank values("BRUK","Bank Rut Unit Kebumen","Jl. Mentimun");
ERROR 1142 (42000): INSERT command denied to user '4098'@'localhost' for table 'cabang_bank'
MariaDB [perbankan]> insert into nasabah values(11,"Sarinah","Jl. Mawar Putih 29");
Query OK, 1 row affected (0.115 sec)
```

### c) Update

```
MariaDB [perbankan]> update nasabah set nama_nasabah = "Kartika" where id_nasabah = 11;
Query OK, 1 row affected (0.158 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. Sutoyo 5
8	Sari Murti	Jl. Pangandaran 11
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtiono	Jl. Merak 22
11	Kartika	Jl. Mawar Putih 29
31	Sujiarti	Jl.Laos

```
12 rows in set (0.000 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). (Gunakan Sub Query untuk mendapatkan data – data berikut dari database data kuliah yang telah anda bangun pada Modul 4 dan Modul 5. )

```
MariaDB [kuliah]> update mahasiswa_has_mata_kuliah set kode_mataKuliahFK = 102 where kode_mataKuliahFK = (select kode_mataKuliah from mata_kuliah where kode_mataKuliah = 101);
Query OK, 3 rows affected (0.038 sec)
Rows matched: 3  Changed: 3  Warnings: 0

MariaDB [kuliah]> select * from mahasiswa_has_mata_kuliah;
```

id_mhsFK	kode_mataKuliahFK
58	102
59	102
60	105
61	106
62	102
63	105
64	102
65	102
66	106

```
9 rows in set (0.000 sec)
```