

Ujian Akhir Semester  
Praktikum Sistem Basis Data

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NIM : L200180002

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 rekening.no_rekening, nasabah.nama_nasabah FROM transaksi LEFT OUTER JOIN nasabah ON transaksi.id_nasabah=nasabah.id_nasabah NATURAL JOIN rekening LEFT OUTER JOIN nasabah_has_rekening USING (no_rekening) WHERE tanggal>"2009-12-1" GROUP BY nasabah.id_nasabah ORDER BY nasabah.id_nasabah;
```

no_rekening	nama_nasabah
103	maryati pri
105	suparman
104	budi eko p
111	satria eka jaya
110	canka lokananta

5 rows in set (0.001 sec)

```
MariaDB [perbankan]> SELECT DISTINCT rekening.no_rekening, nasabah.nama_nasabah FROM transaksi INNER JOIN nasabah ON transaksi.id_nasabah=nasabah.id_nasabah NATURAL JOIN rekening INNER JOIN nasabah_has_rekening USING (no_rekening) WHERE tanggal>"2009-12-1" GROUP BY nasabah.id_nasabah ORDER BY nasabah.id_nasabah;
```

no_rekening	nama_nasabah
103	maryati pri
105	suparman
104	budi eko p
111	satria eka jaya
110	canka lokananta

5 rows in set (0.001 sec)

```
MariaDB [perbankan]>
```

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_nasabah, cabang_bank.nama_cabang, SUM(rekening.saldo -75000) as "Sisa Saldo" FROM nasabah_has_rekening JOIN rekening ON nasabah_has_rekening.no_rekening=rekening.no_rekening JOIN cabang_bank ON rekening.kode_cabang=cabang_bank.kode_cabang GROUP BY id_nasabah HAVING SUM(rekening.saldo)>=0;
```

id_nasabah	nama_cabang	Sisa Saldo
2	bank rut unit surakarta	675000
3	bank rut unit surakarta	350000
4	bank rut unit surakarta	450000
5	bank rut unit surakarta	300000
6	Bank Rut Unit Boyolali	-75000
7	Bank Rut Unit Boyolali	-75000
8	Bank Rut Unit Klaten	300000
9	Bank Rut Unit Yogyakarta	475000
10	Bank Rut Unit Boyolali	605000

9 rows in set (0.001 sec)

### 3. Membuat user dengan nama '002'

```
MariaDB [mysql]> create user '002'@'localhost' identified by '002';  
Query OK, 0 rows affected (0.227 sec)
```

#### Memberikan PRIVILEGES

```
MariaDB [mysql]> GRANT CREATE ON perbankan.nasabah to '002'@'localhost';  
Query OK, 0 rows affected (0.147 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES  
-> ;  
Query OK, 0 rows affected (0.053 sec)  
  
MariaDB [mysql]> GRANT UPDATE ON perbankan.nasabah to '002'@'localhost';  
Query OK, 0 rows affected (0.034 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [mysql]> GRANT DELETE ON perbankan.nasabah to '002'@'localhost';  
Query OK, 0 rows affected (0.039 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [mysql]> GRANT SELECT ON perbankan.nasabah to '002'@'localhost';  
Query OK, 0 rows affected (0.039 sec)  
  
MariaDB [mysql]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [mysql]> GRANT INSERT ON perbankan.nasabah to '002'@'localhost';  
Query OK, 0 rows affected (0.041 sec)
```

#### Memberikan Contoh CRUD

```
C:\xampp\mysql\bin>mysql -u 002 -p  
Enter password: ***  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 1481  
Server version: 10.4.13-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]>
```

## Create/Insert

```
MariaDB [perbankan]> INSERT INTO nasabah VALUES (19, "Edi S", "Karanganyar");  
Query OK, 1 row affected (0.040 sec)
```

## Read/Select

```
MariaDB [perbankan]> SELECT * FROM nasabah;  
+-----+-----+-----+  
| id_nasabah | nama_nasabah | alamat_nasabah |  
+-----+-----+-----+  
| 1 | sutopo | Jl. jendral sudirman 12 |  
| 2 | maryati pri | Jl. MT. Haryono 31 |  
| 3 | suparman | Jl. hasanudin 81 |  
| 4 | kartika padmasari | Jl. manggis 1 |  
| 5 | budi eko p | Jl. kantil 30 |  
| 6 | satria eka jaya | Jl. slamet riyadi 45 |  
| 8 | sari murti | Jl. pangandaran 11 |  
| 9 | canka lokananta | Jl. tidar 86 |  
| 10 | budi murtono | Jl. merak 22 |  
| 19 | Edi S | Karanganyar |  
+-----+-----+-----+  
10 rows in set (0.000 sec)
```

## Update

```
MariaDB [perbankan]> UPDATE nasabah SET nama_nasabah="Edi Supriyanto" WHERE id_nasabah="19";  
Query OK, 1 row affected (0.066 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 pri | Jl. MT. Haryono 31 |  
| 3 | suparman | Jl. hasanudin 81 |  
| 4 | kartika padmasari | Jl. manggis 1 |  
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| 8 | sari murti | Jl. pangandaran 11 |  
| 9 | canka lokananta | Jl. tidar 86 |  
| 10 | budi murtono | Jl. merak 22 |  
| 19 | Edi Supriyanto | Karanganyar |  
+-----+-----+-----+  
10 rows in set (0.000 sec)
```

## Delete

```
MariaDB [perbankan]> DELETE FROM nasabah WHERE id_nasabah=19;  
Query OK, 1 row affected (0.383 sec)
```

```
MariaDB [perbankan]> SELECT * FROM nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah
1	sutopo	Jl. jendral sudirman 12
2	maryati pri	Jl. MT. Haryono 31
3	suparman	Jl. hasanudin 81
4	kartika padmasari	Jl. manggis 1
5	budi eko p	Jl. kantil 30
6	satria eka jaya	Jl. slamet riyadi 45
8	sari murti	Jl. pangandaran 11
9	canka lokananta	Jl. tidar 86
10	budi murtono	Jl. merak 22

9 rows in set (0.000 sec)

4. Mata kuliah A tidak memenuhi standar kebijakan prodi akan pengadaan/pengelolaan 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_mata_kuliah SET mata_kuliah_kode_matkul='UMS40599' WHERE mata_kuliah_kode_matkul=(SELECT kode_matkul FROM mata_kuliah WHERE kode_matkul="TIF40510");  
Query OK, 1 row affected (0.050 sec)  
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [perkuliahan]> SELECT * FROM mahasiswa_has_mata_kuliah;
```

mata_kuliah_kode_matkul	mahasiswa_NIM
TIF00000	120
TIF40501	121
TIF40502	122
TIF40504	124
TIF40505	125
TIF40513	129
UMS40503	123
UMS40511	127
UMS40512	128
UMS40599	126

10 rows in set (0.000 sec)