Nama: Kevin Hansa Wardhana

NIM: L200180004

Kelas: A

Mata Kuliah: UAS Praktikum Sistem Basis Data

No 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)

No 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)

```
[perbankan]> SELECT DISTINCT nasabah_has_rekening.id_nasabahFK, cabang_bank.nama_cabang, SUM(rekening.saldo-750
0) as "Sisa Saldo" from nasabah_has_rekening JOIN rekening ON nasabah_has_rekening.no_rekeningFK=rekening.no_rekening JOIN rekening JOIN cabang_bank on rekening SUM(rekening.saldo >0);
  id_nasabahFK | nama_cabang
                                                 Sisa Saldo
                   bank rut unit surakarta
                                                      675000
                   bank rut unit surakarta
                                                      350000
                   bank rut unit surakarta
                                                      450000
                   bank rut unit surakarta
                                                      300000
                   Bank Rut Unit Klaten
                                                       300000
                   Bank Rut Unit Yogyakarta
                                                      475000
                   Bank Rut Unit Boyolali
                                                      605000
7 rows in set (0.14 sec)
```

No 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.).

Membuat user dengan nama 3 digit nim terakhir

```
MariaDB [mysql]> CREATE User '004'@'localhost' IDENTIFIED BY '004'
-> ;
Query OK, 0 rows affected (0.13 sec)
```

```
C:\xampp\mysql\bin>mysql -u 004 -p
Enter password:
ERROR 1045 (28000): Access denied for user '004'@'localhost' (using password: NO)

C:\xampp\mysql\bin>mysql -u 004 -p
Enter password: ***
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 292
Server version: 10.1.36-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
```

Memberi privilege pada user

```
MariaDB [mysql]> GRANT CREATE ON perbankan.nasabah TO '004'@'localhost';
Query OK, 0 rows affected (0.19 sec)
MariaDB [mysql]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.13 sec)
```

```
C:\Windows\system32\cmd.exe-mysql -uroot-p

MariaDB [mysql]> GRANT INSERT ON perbankan.nasabah TO '004'@'localhost';

Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> GRANT UPDATE ON perbankan.nasabah TO '004'@'localhost';

Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> GRANT DELETE ON perbankan.nasabah TO '004'@'localhost';

Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.00 sec)

MariaDB [mysql]> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.00 sec)
```

Masing -masing contoh CRUD

MariaDB [mysql]> FLUSH PRIVILEGES; Query OK, 0 rows affected (0.00 sec)

Create/insert

```
MariaDB [perbankan]> INSERT INTO nasabah VALUES (444, "kevin", "Sukoharjo");
Query OK, 1 row affected (0.15 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 1 |
| 5 | budi eko prayogo | 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 |
| 444 | kevin | Sukoharjo |

MariaDB [perbankan]> INSERT INTO cabang_bank VALUES ("BR", "bank rut", "Sukoharjo");
ERROR 1142 (42000): INSERT command denied to user '004'@'localhost' for table 'cabang_bank'
```

Read/select

```
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 1 |
| 5 | budi eko prayogo | 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 |
| 12 | kevin | Sukoharjo |

MariaDB [perbankan] > SELECT * FROM transaksi;
ERROR 1142 (42000): SELECT command denied to user '004'@'localhost' for table 'transaksi'
```

Update

```
MariaDB [perbankan]> UPDATE nasabah SET nama_nasabah="kevin hansa wardhana" WHERE id_nasabah=444;
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [perbankan]> SELECT * FROM nasabah;
 id_nasabah | nama_nasabah | alamat_nasabah
          1 | sutopo
2 | maryati
                                     | Jl. jendral sudirman 12
| Jl. MT. Haryono 31
                                      | Jl. hasanudin 81
           3 | suparman
           4 | kartika padmasari
                                      | Jl. manggis 1
                                       Jl. kantil 30
Jl. slamet riyadi 45
           5 | budi eko prayogo
6 | satria eka jaya
                                      | Jl. pangandaran 11
           8 | sari murti
          9 | canka lokananta
                                      | Jl. tidar 86
          10
              budi murtono
                                       Jl. merak 22
         444 | kevin hansa wardhana | Sukoharjo
10 rows in set (0.00 sec)
MariaDB [perbankan]> UPDATE cabang_bank SET nama_cabang="Bank Rut Unit Boyolali" WHERE kode_cabang="BRUM";
ERROR 1142 (42000): UPDATE command denied to user '004 @'localhost' for table 'cabang_bank'
```

Delete

No 4. subquery

```
MariaDB [perkuliahan]> UPDATE mahasiswa has mata kuliah SET mata kuliah kode matkul='UMS40599' WHERE mata kuliah kode ma
tkul=(SELECT kode matkul FROM mata kuliah WHERE kode matkul='TIF40510');
Query OK, 4 rows affected (0.12 sec)
Rows matched: 4 Changed: 4 Warnings: 0
MariaDB [perkuliahan]> SELECT * FROM mahasiswa_has_mata_kuliah;
 mata_kuliah_kode_matkul | mahasiswa_NIM |
 4444
                                  130
 TIF00000
                                  120
                                  121
 TIF40501
                                  129
 TIF40513
 UMS40503
                                  123
 UMS40511
                                   127
 UMS40512
                                   128
 UMS40599
                                   122
 UMS40599
                                   124
                                   125
 UMS40599
 UMS40599
                                  126
11 rows in set (0.00 sec)
```