

NAMA : MUHAMMAD KHALIF RIZALDI WIBOWO
KELAS : H
NIM : L200180217

Ujian Akhir Semester Praktikum Sistem Basis Data

1. Tampilkan nomer rekening, nama nasabah, yang melakukan transaksi di atas tanggal '01-12-2009' di urutkan berdasarkan id_nasabah .

NB : masing2 id_nasabah tidak boleh terulang

```
MariaDB [perbankan]> select distinct nama_perbankan,no_rekeningFK from nasabah right outer join transaksi on nasabah.id_nasabah=transaksi.no_transaksi where tanggal >'2009-12-01 00:00:00' order by no_rekeningFK;
+-----+-----+
| nama_perbankan | no_rekeningFK |
+-----+-----+
| NULL           |      2        |
| Kartika Padmasari |    3        |
| NULL           |      4        |
| NULL           |      5        |
| NULL           |      7        |
| NULL           |      9        |
| NULL           |     107       |
| NULL           |     110       |
| NULL           |     112       |
+-----+-----+
9 rows in set (0.002 sec)
```

2. Tampilkan id_nasabah, nama_cabang, jumlah saldo (dalam sisa saldo) dari masing2 id_nasabah di kurangi 75.000 untuk pembayaran SPP

```
MariaDB [perbankan]> SELECT DISTINCT nasabah.id_nasabah, cabang_bank.nama_cabang, (rekening.saldo-75000) FROM nasabah INNER JOIN cabang_bank INNER JOIN rekening INNER JOIN transaksi ON nasabah.id_nasabah = transaksi.no_rekeningFK AND rekening.no_rekening = transaksi.id_nasabahFK AND cabang_bank.kode_cabang = rekening.kode_cabangFK GROUP BY rekening.no_rekening;
+-----+-----+-----+
| id_nasabah | nama_cabang | (rekening.saldo-75000) |
+-----+-----+-----+
| 4          | Bank Rut Unit Boyolali |      425000 |
| 5          | Bank Rut Unit Surakarta |      275000 |
| 2          | Bank Rut Unit Surakarta |      675000 |
| 3          | Bank Rut Unit Surakarta |      2925000 |
| 5          | Bank Rut Unit Surakarta |      925000 |
| 10         | Bank Rut Unit Boyolali |      4925000 |
| 9          | Bank Rut Unit Yogyakarta |      475000 |
+-----+-----+-----+
7 rows in set (0.002 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 memberikan hak akses pada user.

```
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 8
Server version: 10.4.11-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use mysql;
Database changed
MariaDB [mysql]> create user '217'@'localhost' identified by '123';
Query OK, 0 rows affected (0.087 sec)

MariaDB [mysql]> grant select on perbankan.nasabah to 217;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '217' at line 1
MariaDB [mysql]> grant select on perbankan.nasabah to '217';
Query OK, 0 rows affected (0.134 sec)
```

```

MariaDB [mysql]> flush privileges;
ERROR 1030 (HY000): Got error 176 "Read page with wrong checksum" from storage engine Aria
MariaDB [mysql]> grant select on perbankan.cabang_bank to '217';
Query OK, 0 rows affected (0.042 sec)

MariaDB [mysql]> flush privileges;
ERROR 1030 (HY000): Got error 176 "Read page with wrong checksum" from storage engine Aria
MariaDB [mysql]> exit
Bye

C:\xampp\mysql\bin>mysql -u '217' -p
Enter password: ***
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.11-MariaDB mariadb.org binary distribution

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_perbankan | alamat_nasabah | ttl_nasabah |
+-----+-----+-----+-----+
| 1 | Sutopo | Jln.Jenderal Sudirman No.12 Semarang | 1988-08-31 |
| 2 | Maryati | Jln.MT Haryono No.31 Pati | 1983-09-13 |
| 3 | Suparman | Jln. Hasanudin No.81 Makassar | 1979-12-23 |
| 4 | Kartika Padmasari | Jln.Manggisi No.15 Klaten | 1989-02-13 |
| 5 | Budi Eko Prayogo | Jln.Kantil No.30 Sragen | 1991-04-10 |
| 6 | Satria Eka Jaya | Jln.Slamet Riyadi No.45 Solo | 1992-08-11 |
| 7 | Sari Murti | Jln.Pangandaran No.11 Bandung | 1994-10-04 |
| 8 | Canka Lokananta | Jln.Tidar No.86 Magelang | 1998-05-31 |
| 9 | Budi Martono | Jln.Merak No.22 Klaten | 1993-04-20 |
+-----+-----+-----+-----+
9 rows in set (0.156 sec)

MariaDB [perbankan]> insert into nasabah values(78, 'Wibowo','Jln Sastromiharjo No.17 Semarang',1999-04-02);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1

MariaDB [perbankan]> insert into nasabah values(78, 'Wibowo','Jln Sastromiharjo No.17 Semarang',1999-04-02);
ERROR 1142 (42000): INSERT command denied to user '217'@'localhost' for table 'nasabah'
MariaDB [perbankan]> exit
Bye

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 10
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 mysql;
Database changed
MariaDB [mysql]> revoke select on perbankan.nasabah from '217';
Query OK, 0 rows affected (0.024 sec)

MariaDB [mysql]> flush privileges;
ERROR 1030 (HY000): Got error 176 "Read page with wrong checksum" from storage engine Aria
MariaDB [mysql]> exit
Bye

C:\xampp\mysql\bin>mysql -u '217' -p
Enter password: ***
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 10.4.11-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```

CRUD

```

C:\xampp\mysql\bin>mysql -u '217' -p
Enter password: ***
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 1
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;
ERROR 1142 (42000): SELECT command denied to user '217'@'localhost' for table 'nasabah'
MariaDB [perbankan]> grant insert on perbankan.nasabah to '217'@'localhost';
ERROR 1142 (42000): INSERT, GRANT command denied to user '217'@'localhost' for table 'nasabah'
MariaDB [perbankan]> grant update on perbankan.nasabah to '217'@'localhost';
ERROR 1142 (42000): UPDATE, GRANT command denied to user '217'@'localhost' for table 'nasabah'
MariaDB [perbankan]> grant delete on perbankan.nasabah to '217'@'localhost';
ERROR 1142 (42000): DELETE, GRANT command denied to user '217'@'localhost' for table 'nasabah'
MariaDB [perbankan]> grant select on perbankan.nasabah to '217'@'localhost';
ERROR 1142 (42000): SELECT, GRANT command denied to user '217'@'localhost' for table 'nasabah'

MariaDB [perbankan]> select*from nasabah;
ERROR 1142 (42000): SELECT command denied to user '217'@'localhost' for table 'nasabah'
MariaDB [perbankan]> insert into nasabah values(77,'Bambang','Jln Makmur Jaya No.76 Jogja',2000-02-12);
ERROR 1142 (42000): INSERT command denied to user '217'@'localhost' for table 'nasabah'
MariaDB [perbankan]> insert into cabang_bank values('BUB','Bank Unit Bantul','Jln Kramat Bantul Jogja');
ERROR 1142 (42000): INSERT command denied to user '217'@'localhost' for table 'cabang_bank'

```

4. Mata Kuliah A tidak memenuhi standar kebijakan. Prodi akan mengadakan kelas karena <10 mahasiswa di sebabkan kurang minatnya mahasiswa akan mata kuliah A. Sehingga mahasiswa yang mengambil mata kuliah A di haruskan revisi ke mata kuliah lain atau yang sudah terselenggara.

SEBELUM

```

MariaDB [kuliah]> select*from mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+
| nim_mahasiswa | nama_mahasiswa | alamat_mahasiswa | jadwal_kuliah | mata_kuliah | tgl_lahir | kelamin_mhs |
+-----+-----+-----+-----+-----+-----+-----+
| L200180212 | Andre Okta | Surakarta | RABU 1 - 3 | Jaringan Komputer | 2000-12-08 | L
| L200180217 | Tirta Rivaldo | Semarang | SELASA 1 - 4 | Pemrograman Android | 2000-08-24 | L
| L20018234 | Anya Fitria | Semarang | RABU 1 - 3 | Pemrograman Android | 1999-11-09 | P
| L200189802 | Noura Syahida | Sragen | KAMIS 1 - 3 | Pemrograman Android | 2000-12-09 | P
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

```

SESUDAH

```

MariaDB [kuliah]> UPDATE mahasiswa SET mata_kuliah ='Pemrograman Android' WHERE nim_mahasiswa = (SELECT nim_mahasiswa FROM mahasiswa WHERE nim_mahasiswa = 'L200180212');
Query OK, 1 row affected (0.140 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [kuliah]> select*from mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+
| nim_mahasiswa | nama_mahasiswa | alamat_mahasiswa | jadwal_kuliah | mata_kuliah | tgl_lahir | kelamin_mhs |
+-----+-----+-----+-----+-----+-----+-----+
| L200180212 | Andre Okta | Surakarta | RABU 1 - 3 | Pemrograman Android | 2000-12-08 | L
| L200180217 | Tirta Rivaldo | Semarang | SELASA 1 - 4 | Pemrograman Android | 2000-08-24 | L
| L20018234 | Anya Fitria | Semarang | RABU 1 - 3 | Pemrograman Android | 1999-11-09 | P
| L200189802 | Noura Syahida | Sragen | KAMIS 1 - 3 | Pemrograman Android | 2000-12-09 | P
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

```

Seorang mahasiswa bernama Andre Okta dengan nim L200180212 mengambil mata kuliah Jaringan Komputer karna karna belum mencukupi kuota. mahasiswa tersebut pindah ke kelas pemrograman android