Praktikum Sistem Basis Data
Modul 10

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Tugas

Nomor 1

```
MariaDB [perbankan]> select max(transaksi.jumlah) from (select jumlah from transaksi) transaksi;
+-----------------------+
| max(transaksi.jumlah) |
+-----------------------+
|                800000 |
+-----------------------+
1 row in set (0.000 sec)

MariaDB [perbankan]>
```

Nomor 2

```
MariaDB [perbankan]> select min(transaksi.jumlah) from (select jumlah from transaksi) transaksi;
+-----------------------+
| min(transaksi.jumlah) |
+-----------------------+
|                 20000 |
+-----------------------+
1 row in set (0.000 sec)

MariaDB [perbankan]>
```

Nomor 3

```
MariaDB [perbankan]> select nasabah.id_nasabah, nasabah.nama_nasabah, transaksi.jumlah from transaksi JOIN nasabah ON na
sabah.id_nasabah=transaksi.id_nasabahFK where transaksi.jumlah IN(select max(jumlah)from transaksi);
+------------+---------------+--------+
| id_nasabah | nama_nasabah  | jumlah |
+------------+---------------+--------+
|         14 | Candra Kirana | 800000 |
+------------+---------------+--------+
1 row in set (0.001 sec)

MariaDB [perbankan]>
```

Nomor 4

```
MariaDB [perbankan]> select*from cabang_bank where cabang_bank.kode_cabang NOT IN(select rekening.kode_cabangFK from rek
ening);
+-------------+---------------------+-----------------+
| kode_cabang | nama_cabang         | alamat_cabang   |
+-------------+---------------------+-----------------+
| BRUC        | Bank Rut Unit Cilacap | Jl. Rajawali 34 |
+-------------+---------------------+-----------------+
1 row in set (0.001 sec)

MariaDB [perbankan]>
```

Nomor 5

```
MariaDB [perbankan]> select no_rekening, saldo from rekening where saldo > (select AVG(saldo) from rekening);
+-------------+---------+
| no_rekening | saldo   |
+-------------+---------+
|         104 |  900000 |
|         105 | 2000000 |
|         106 | 3000000 |
|         107 | 1000000 |
|         108 | 5000000 |
+-------------+---------+
5 rows in set (0.000 sec)

MariaDB [perbankan]>
```

Nomor 6

a. Tampilkan saldo terbesar

```
MariaDB [perbankan]> select max(rekening.saldo) from (select saldo from rekening) rekening;
+---------------------+
| max(rekening.saldo) |
+---------------------+
|             5000000 |
+---------------------+
1 row in set (0.001 sec)
```

b. Tampilkan saldo terkecil

```
MariaDB [perbankan]> select min(rekening.saldo) from (select saldo from rekening) rekening;
+---------------------+
| min(rekening.saldo) |
+---------------------+
|                   0 |
+---------------------+
1 row in set (0.000 sec)

MariaDB [perbankan]>
```

c. Tampilkan data nasabah yang melakukan transaksi debit

```
MariaDB [perbankan]> select*from nasabah where nasabah.id_nasabah IN(select distinct transaksi.id_nasabahFK from transak
si where jenis_transaksi='debit');
+------------+-------------------+----------------------+
| 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        |
|          9 | Canka Lokananta   | Jl. Tidar 86         |
|         10 | Budi Murtono      | Jl. Merak 22         |
|         11 | Ali Saputra       | Jl. Anggur 11        |
|         12 | Juli Ariawan      | Jl. Mangga 17        |
|         13 | Ahmad Ridwan      | Jl. Rambutan 21      |
|         14 | Candra Kirana     | Jl. Durian 34        |
|         15 | Riski Nurdiansyah | Jl. Apel 25          |
|         17 | Zainal Fathoni    | Jl. Manggis 44       |
|         18 | Anggit Pratiwi    | Jl. Matoa 13         |
|         19 | Arsida Ulfa       | Jl. Sawo 43          |
|         20 | Fitri Dearlia     | Jl. Apel 43          |
+------------+-------------------+----------------------+
16 rows in set (0.000 sec)

MariaDB [perbankan]>
```

d. Tampilkan data nasabah yang bertransaksi pada tanggal 18 November 2009

```
MariaDB [perbankan]> select*from nasabah where nasabah.id_nasabah IN (select transaksi.id_nasabahFK from transaksi where
 tanggal = "2009-11-18");
+------------+--------------+-----------------+
| id_nasabah | nama_nasabah | alamat_nasabah  |
+------------+--------------+-----------------+
|          3 | Suparman     | Jl. Hasanudin 81 |
+------------+--------------+-----------------+
1 row in set (0.004 sec)

MariaDB [perbankan]>
```

e. Tampilkan no rekening yang terdaftar di cabang BRUW

```
MariaDB [perbankan]> select no_rekening from rekening where kode_cabangFK IN(select kode_cabangFK from rekening where ko
de_cabangFK="BRUW");
+-------------+
| no_rekening |
+-------------+
|         113 |
|         116 |
+-------------+
2 rows in set (0.001 sec)
```

Nomor 7

A. Daftar mahasiswa yang tidak mengambil matakuliah dengan id_matkul=2.

```
MariaDB [perkuliahan]> select * from mahasiswa where mahasiswa.nim NOT IN (select distinct nimFK from mahasiswa_has_matk
ul where id_matkulFK='2');
+-----+-------+---------------+-----------------+
| nim | nipFK | nama_mahasiswa | alamat_mahasiswa |
+-----+-------+---------------+-----------------+
|  22 |     1 | Karin         | Uranus          |
|  33 |     2 | Yogik         | Neptunus        |
|  44 |     3 | Bambank       | Ceres           |
+-----+-------+---------------+-----------------+
3 rows in set (0.00 sec)
```

B. Daftar mahasiswa yang mengambil semua matakuliah yang diampu oleh satu dosen.

```
MariaDB [perkuliahan]> select mahasiswa.nim, mahasiswa.nama_mahasiswa from mahasiswa, mahasiswa_has_matkul, matkul where
 mahasiswa.nim=mahasiswa_has_matkul.nimFK AND matkul.id_matkul=mahasiswa_has_matkul.id_matkulFK and matkul.nipFK = (sele
ct nip from dosen where nip=3);
+-----+----------------+
| nim | nama_mahasiswa |
+-----+----------------+
|  22 | Karin          |
|  33 | Yogik          |
+-----+----------------+
2 rows in set (0.11 sec)
```

C. memindahkan matkul yang diambil mahasiswa ke matkul lain.

```
MariaDB [perkuliahan]> update mahasiswa_has_matkul set id_matkulFK=3 where id_matkulFK = (select id_matkul from matkul w
here id_matkul=2);
Query OK, 1 row affected (0.44 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perkuliahan]> select * from mahasiswa_has_matkul;
+-------+-------------+
| nimFK | id_matkulFK |
+-------+-------------+
|    11 |           1 |
|    11 |           3 |
|    22 |           3 |
|    33 |           1 |
|    33 |           3 |
+-------+-------------+
5 rows in set (0.00 sec)
```

D. Update salah satu matkul yang digantikan oleh dosen lain.

```
MariaDB [perkuliahan]> update matkul set nipFK=1,dosen_pengampu="Budi" where nipFK=(select nip from dosen where nip=2);
Query OK, 1 row affected (0.73 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perkuliahan]> select * from matkul;
+-------------+-------+-----------+----------------+
| nama_matkul | nipFK | id_matkul | dosen_pengampu |
+-------------+-------+-----------+----------------+
| Sejarah     |     1 |         1 | Budi           |
| Matematika  |     1 |         2 | Budi           |
| Bhs. Indo   |     3 |         3 | Bayu           |
+-------------+-------+-----------+----------------+
3 rows in set (0.00 sec)
```

E.update matakuliah mahasiswa ke matakuliah yang lain.

```
MariaDB [perkuliahan]> update mahasiswa_has_matkul set id_matkulFK=2 where id_matkulFK = (select id_matkul from matkul w
here id_matkul=1);
Query OK, 2 rows affected (0.16 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [perkuliahan]> select * from mahasiswa_has_matkul;
+-------+------------+
| nimFK | id_matkulFK |
+-------+------------+
|    11 |          2 |
|    11 |          3 |
|    22 |          3 |
|    33 |          2 |
|    33 |          3 |
+-------+------------+
5 rows in set (0.00 sec)
```