Nama : Sang Aji Indutoro
NIM : L200180003

Praktikum

Nomor 5

```
MariaDB [perbankan]> select * from nasabah where nasabah.id_nasabah IN (select distinct transaksi.id_nasabahFK from tran
saksi where jenis_transaksi='kredit');
+------------+------------------+------------------------+
| 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           |
|         11 | Amin             | Jl. Bebek 12           |
|         13 | Apip             | Jl. Bango 69           |
|         14 | Acil             | Jl. Mop 5              |
|         17 | Abang            | Jl. Murai 33           |
|         18 | Aisyah           | Jl. Meenco Raya 4      |
|         20 | Agus             | Jl. Kacer 45           |
+------------+------------------+------------------------+
12 rows in set (0.10 sec)
```

Nomor 6

```
MariaDB [perbankan]> select * from nasabah where nasabah.id_nasabah NOT IN (select distinct transaksi.id_nasabahFK from
transaksi);
+------------+------------------+------------------------+
| id_nasabah | nama_nasabah     | alamat_nasabah         |
+------------+------------------+------------------------+
|          6 | Satria Eka Jaya  | Jl. Slamet Riyadi 45   |
|          8 | Sari Murti       | Jl. Pangandaran 11     |
|         69 | Om Ndu           | Solo                   |
+------------+------------------+------------------------+
3 rows in set (0.04 sec)
```

Nomor 7

```
MariaDB [perbankan]> select cabang_bank.kode_cabang, cabang_bank.nama_cabang, AVG(rekening.saldo) as rata2 from cabang_b
ank, rekening where cabang_bank.kode_cabang=rekening.kode_cabangFK group by cabang_bank.kode_cabang having rata2 >= ALL
(select AVG(saldo) from rekening group by kode_cabangFK);
+-------------+----------------------+--------------+
| kode_cabang | nama_cabang          | rata2        |
+-------------+----------------------+--------------+
| BRUB        | Bank Rut Unit Boyolali | 2500000.0000 |
+-------------+----------------------+--------------+
1 row in set (0.00 sec)
```

Nomor 8

```
MariaDB [perbankan]> select * from transaksi where jumlah > (select avg(jumlah) from transaksi);
+--------------+--------------+------------+----------------+------------+----------+
| no_transaksi | no_rekeningFK | id_nasabahFK | jenis_transaksi | tanggal   | jumlah   |
+--------------+--------------+------------+----------------+------------+----------+
|           36 |          119 |         16 | debit          | 2009-12-08 | 13200000 |
|           40 |          123 |         18 | debit          | 2009-12-09 | 5600000  |
|           45 |          118 |         12 | debit          | 2009-12-10 | 9000000  |
|           46 |          119 |         13 | debit          | 2009-12-11 | 11000000 |
|           47 |          120 |         13 | kredit         | 2009-12-11 | 10000000 |
|           50 |          123 |         16 | debit          | 2009-12-12 | 7770000  |
+--------------+--------------+------------+----------------+------------+----------+
6 rows in set (0.00 sec)
```

Tugas

Nomor 1

```
MariaDB [perbankan]> select max(transaksi.jumlah) from (select jumlah from transaksi) transaksi;
+-----------------------+
| max(transaksi.jumlah) |
+-----------------------+
|              13200000 |
+-----------------------+
1 row in set (0.04 sec)
```

Nomor 2

```
MariaDB [perbankan]> select min(transaksi.jumlah) from (select jumlah from transaksi) transaksi;
+-----------------------+
| min(transaksi.jumlah) |
+-----------------------+
|                 20000 |
+-----------------------+
1 row in set (0.00 sec)
```

Nomor 3

```
MariaDB [perbankan]> select nasabah.id_nasabah,nasabah.nama_nasabah,transaksi.jumlah from transaksi JOIN nasabah on nasa
bah.id_nasabah=transaksi.id_nasabahFK where transaksi.jumlah IN (select max(jumlah) from transaksi);
+------------+--------------+----------+
| id_nasabah | nama_nasabah | jumlah   |
+------------+--------------+----------+
|         16 | Ayu          | 13200000 |
+------------+--------------+----------+
1 row in set (0.00 sec)

MariaDB [perbankan]>
```

Nomor 4

```
MariaDB [perbankan]> select * from cabang_bank where cabang_bank.kode_cabang NOT IN (select rekening.kode_cabangFK from
rekening);
+-------------+----------------------+----------------+
| kode_cabang | nama_cabang          | alamat_cabang  |
+-------------+----------------------+----------------+
| BRUD        | Bank Rut Unit Demak   | Jl. Wali 44    |
| BRUSU       | Bank Rut Unit Subang  | Jl. Cicaheum 10 |
+-------------+----------------------+----------------+
2 rows in set (0.00 sec)
```

Nomor 5

```
MariaDB [perbankan]> select no_rekening, saldo from rekening where saldo > (select AVG(saldo) from rekening);
+-------------+---------+
| no_rekening | saldo   |
+-------------+---------+
|         103 |  750000 |
|         104 |  900000 |
|         105 | 2000000 |
|         106 | 3000000 |
|         107 | 1000000 |
|         108 | 5000000 |
+-------------+---------+
6 rows in set (0.00 sec)
```

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 (0.00 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 (0.00 sec)
```

c. Tampilkan nama nasabah yang melakukan transaksi debit

```
MariaDB [perbankan]> select nasabah.nama_nasabah from nasabah where nasabah.id_nasabah IN (select transaksi.id_nasabahFK
 from transaksi where jenis_transaksi='debit');
+------------------+
| nama_nasabah     |
+------------------+
| Sutopo           |
| Maryati          |
| Suparman         |
| Kartika Padmasari |
| Budi Eko Prayogo |
| Canka Lokananta  |
| Budi Murtono     |
| Amin             |
| Amir             |
| Apip             |
| Ajeng            |
| Ayu              |
| Aisyah           |
| Amar             |
+------------------+
14 rows in set (0.00 sec)
```

d. Tampilkan data nasabah yang bertransaksi pada tanggal 10 November 2009

```
MariaDB [perbankan]> select * from nasabah where nasabah.id_nasabah IN (select transaksi.id_nasabahFK from transaksi whe
re tanggal='2009-11-10');
+------------+--------------+-------------------+
| id_nasabah | nama_nasabah | alamat_nasabah    |
+------------+--------------+-------------------+
|          2 | Maryati      | Jl. MT. Haryono 31 |
|          3 | Suparman     | Jl. Hasanudin 81  |
+------------+--------------+-------------------+
2 rows in set (0.00 sec)
```

e. Tampilkan no rekening yang terdaftar di cabang "BRUS"

```
MariaDB [perbankan]> select no_rekening from rekening where kode_cabangFK IN (select kode_cabangFK from rekening where k
ode_cabangFK='BRUS');
+-------------+
| no_rekening |
+-------------+
|         101 |
|         102 |
|         103 |
|         106 |
|         107 |
+-------------+
5 rows in set (0.00 sec)
```

Nomor 7

1) 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)
```

2) Daftar mahasiswa yang mengambil semua mata kuliah yang diampu oleh salah 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)
```

3) 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)
```

4) Update salah satu matkul yang digantikan oleh dosen yang 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)
```

5) 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)
```