

Nama : Bagus Zizou Satiaji

NIM : L200180212

Kelas : Praktikum Sistem Basis Data H

MODUL 10

SUBQUERY

Praktikum

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT*FROM nasabah WHERE nasabah.id_nasabah IN(SELECT DISTINCT transaksi.id_nasabahFK FROM transaksi 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 | Nizar Armando | Jl. Kapitan 23 |
| 14 | Rifan Anwar | Jl. Pemuda 13 |
+-----+-----+-----+
8 rows in set (0.044 sec)

MariaDB [perbankan]> SELECT*FROM nasabah WHERE nasabah.id_nasabah NOT IN(SELECT DISTINCT transaksi.id_nasabahFK FROM transaksi);
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 13 | Mila lia | Jl. Bypass 21 |
| 15 | Yeremia Ano | Jl. Pemuda 18 |
| 16 | Yolanda Mei | Jl. Manahan 56 |
| 33 | Fero | Juwiring |
+-----+-----+-----+
4 rows in set (0.051 sec)
```

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT cabang_bank.kode_cabang, cabang_bank.nama_cabang, AVG(rekening.saldo) AS rata2 from cabang_bank, 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 |
+-----+-----+-----+
| BRUN | Bank Rut Unit Nglipar | 10000000.0000 |
+-----+-----+-----+
1 row in set (0.002 sec)

MariaDB [perbankan]> SELECT*FROM transaksi WHERE jumlah > (SELECT AVG(jumlah) FROM transaksi);
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+-----+
| 31 | 20 | 114 | Debit | 2020-06-20 04:22:22 | 500000 |
| 35 | 11 | 123 | Kredit | 2020-06-20 04:22:22 | 1000000 |
| 36 | 14 | 118 | Kredit | 2020-06-20 04:22:22 | 1500000 |
| 37 | 7 | 109 | Debit | 2020-06-20 04:22:22 | 5000000 |
| 38 | 8 | 111 | Debit | 2020-06-20 04:22:22 | 500000 |
| 40 | 11 | 113 | Debit | 2020-06-20 04:22:22 | 4500000 |
| 43 | 1 | 104 | Kredit | 2020-06-20 04:22:22 | 500000 |
| 45 | 3 | 106 | Kredit | 2020-06-20 04:22:22 | 900000 |
| 46 | 3 | 105 | Debit | 2020-06-20 04:22:22 | 2000000 |
| 47 | 20 | 112 | Debit | 2020-06-20 04:22:22 | 1000000 |
| 48 | 19 | 114 | Debit | 2020-06-20 04:22:22 | 500000 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.002 sec)

MariaDB [perbankan]>
```

Tugas

Nomor 1 dan 2

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT DISTINCT jumlah FROM transaksi WHERE jumlah >= all(SELECT MAX(jumlah)FROM transaksi);
+-----+
| jumlah |
+-----+
| 5000000 |
+-----+
1 row in set (0.000 sec)

MariaDB [perbankan]> SELECT DISTINCT jumlah FROM transaksi WHERE jumlah <= all(SELECT MIN(jumlah)FROM transaksi);
+-----+
| jumlah |
+-----+
| 20000 |
+-----+
1 row in set (0.000 sec)
```

Nomor 3,4, dan 5

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT nasabah.id_nasabah, nasabah.nama_nasabah, transaksi.jumlah
-> FROM nasabah, transaksi WHERE nasabah.id_nasabah=transaksi.id_nasabahFK
-> ORDER BY transaksi.jumlah desc limit 1;
+-----+-----+-----+
| id_nasabah | nama_nasabah | jumlah |
+-----+-----+-----+
| 11 | Nizar Armando | 4500000 |
+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [perbankan]> SELECT*FROM cabang_bank where cabang_bank.kode_cabang NOT IN
-> (SELECT DISTINCT rekening.kode_cabangFK from rekening);
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUI | Bank Rut Unit Imogiri | Jl. Imogiri 32 |
| BRUJ | Bank Rut Unit Jatinom | Jl. Jatinom Center 43 |
| BRUKT | Bank Rut Unit Klaten Tengah | Jl. Pemuda Klaten 33 |
| BRUW | Bank Rut Unit Wonogiri | Jl. Ahmad Yani 23 |
+-----+-----+-----+
4 rows in set (0.000 sec)

MariaDB [perbankan]> SELECT no_rekening FROM rekening WHERE saldo >
-> (SELECT AVG(saldo) FROM rekening);
+-----+
| no_rekening |
+-----+
| 106 |
| 108 |
| 116 |
| 120 |
| 122 |
| 123 |
+-----+
6 rows in set (0.000 sec)
```

Nomor 6

1. Menampilkan data nasabah yang melakukan transaksi dengan jenis kredit pada tanggal 20 Juni 2020 jam 04:22:22 dengan jumlah kurang dari 500000.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT*FROM nasabah WHERE nasabah.id_nasabah IN
-> (SELECT DISTINCT transaksi.id_nasabahFK from transaksi where tanggal='2020-06-20 04:22:22')
-> AND nasabah.id_nasabah IN(SELECT transaksi.id_nasabahFK FROM transaksi
-> WHERE jenis_transaksi='kredit' and jumlah < 500000);
+-----+-----+-----+
| 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 |
+-----+-----+-----+
4 rows in set (0.001 sec)
```

2. Menampilkan detail data nasabah yang mempunyai jumlah transaksi diatas rata-rata.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT*FROM nasabah WHERE nasabah.id_nasabah IN
-> (SELECT DISTINCT transaksi.id_nasabahFK FROM transaksi
-> WHERE jumlah > (select AVG(jumlah) FROM transaksi));
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | SUTOPO | Jl. Jendral Sudirman 12 |
| 3 | Suparman | Jl. Hasanudin 81 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 11 | Nizar Armando | Jl. Kapitan 23 |
| 14 | Rifan Anwar | Jl. Pemuda 13 |
| 19 | Sonnia Amalia | Jl. Remin 3 |
| 20 | Leonard | Jl. Jendral Suharto 5 |
+-----+-----+-----+
7 rows in set (0.001 sec)
```

3. Menampilkan detail data transaksi yang mempunyai 5 jumlah paling kecil dengan jenis transaksinya adalah kredit.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT*FROM transaksi WHERE jenis_transaksi='DEBIT'
-> ORDER BY jumlah limit 5;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+-----+
| 23 | 5 | 102 | Debit | 2020-06-19 19:51:13 | 20000 |
| 8 | 5 | 102 | Debit | 2020-06-19 19:51:13 | 20000 |
| 30 | 9 | 110 | Debit | 2020-06-19 19:51:13 | 20000 |
| 25 | 2 | 103 | Debit | 2020-06-19 19:51:13 | 40000 |
| 14 | 3 | 105 | Debit | 2020-06-19 19:51:13 | 40000 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

4. Menampilkan 10 buah data nasabah yang mempunyai jumlah transaksi terkecil beserta jumlah transaksinya.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT nasabah.id_nasabah, nasabah.nama_nasabah, nasabah.alamat_nasabah, transaksi.jumlah
-> FROM nasabah, transaksi WHERE nasabah.id_nasabah=transaksi.id_nasabahFK ORDER BY transaksi.jumlah limit 10;
+-----+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah | jumlah |
+-----+-----+-----+-----+
| 9 | Canka Lokananta | Jl. Tidar 86 | 20000 |
| 5 | Budi Eko Prayogo | Jl. Kantil 30 | 20000 |
| 4 | Kartika Padmasari | Jl. Manggis 15 | 20000 |
| 5 | Budi Eko Prayogo | Jl. Kantil 30 | 20000 |
| 4 | Kartika Padmasari | Jl. Manggis 15 | 20000 |
| 5 | Budi Eko Prayogo | Jl. Kantil 30 | 30000 |
| 2 | Maryati | Jl. MT. Haryono 31 | 40000 |
| 2 | Maryati | Jl. MT. Haryono 31 | 40000 |
| 3 | Suparman | Jl. Hasanudin 81 | 40000 |
| 1 | SUTOPO | Jl. Jendral Sudirman 12 | 50000 |
+-----+-----+-----+-----+
10 rows in set (0.000 sec)
```

5. Menampilkan data nasabah yang pernah melakukan transaksi kredit dengan minimal jumlah transaksinya Rp. 500000.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT*FROM nasabah WHERE nasabah.id_nasabah IN
-> (SELECT DISTINCT transaksi.id_nasabahFK FROM transaksi
-> WHERE jenis_transaksi = 'kredit' and jumlah >= 500000);
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | SUTOPO | Jl. Jendral Sudirman 12 |
| 3 | Suparman | Jl. Hasanudin 81 |
| 11 | Nizar Armando | Jl. Kapitan 23 |
| 14 | Rifan Anwar | Jl. Pemuda 13 |
+-----+-----+-----+
4 rows in set (0.000 sec)
```