DATABASE SYSTEMS PRACTICUM

PRACTICUM 10

By:

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INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS

UNIVERSITY OF MUHAMMADIYAH SURAKARTA

2020

1. Activity

```
MariaDB [(none)]> use perbankan
Database changed
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            |
|         10 | Budi Murtono            | Jl. Merak 22            |
|         11 | Agus Warsito            | Jl. Jendral Sudirman 12 |
|         12 | Sri Harnani             | Jl. MT. Haryono 31      |
|         13 | Ganang Ramadhan Kurniaji| Jl. Hasanudin 81        |
|         14 | Isti Puput Susanti      | Jl. Manggis 15          |
|         15 | Muhammad Reynand Kurniaji| Jl. Kantil 30          |
|         16 | Galan Kresna Kurniaji   | Jl. Slamet Riyadi 45    |
|         17 | Nurma Sabila Hikmayanti | Jl. Sutoyo 5            |
|         18 | Enzo Araisena Kurniaji  | Jl. Pangandaran 11      |
|         19 | Ganno Tribuana Kurniaji | Jl. Tidar 86            |
|         20 | Nur Annida I'ffah Supardi| Jl. Merak 22           |
+------------+-------------------------+-------------------------+
17 rows in set (0.361 sec)
```

```
MariaDB [perbankan]> SELECT * FROM nasabah WHERE nasabah.id_nasabah NOT IN (SELECT DISTINCT transaksi.id_nasabahFK FROM transaksi);
Empty set (0.052 sec)

MariaDB [perbankan]>
```

```
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.kod
e_cabang HAVING rata2 >= ALL (SELECT AVG(saldo) FROM rekening GROUP BY kode_cabangFK);
+-------------+------------------------+--------------+
| kode_cabang | nama_cabang            | rata2        |
+-------------+------------------------+--------------+
| BRUB        | Bank Rut Unit Boyolali | 1400000.0000 |
+-------------+------------------------+--------------+
1 row in set (0.102 sec)
```

```
MariaDB [perbankan]> SELECT * FROM transaksi WHERE jumlah > (SELECT AVG(jumlah) FROM transaksi);
+--------------+--------------+---------------+-----------------+---------------------+---------+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah  |
+--------------+--------------+---------------+-----------------+---------------------+---------+
|           36 |            6 |           106 | debit           | 0000-00-00 00:00:00 |  300000 |
|           37 |            7 |           107 | debit           | 0000-00-00 00:00:00 |  350000 |
|           38 |            8 |           108 | debit           | 0000-00-00 00:00:00 |  400000 |
|           39 |            9 |           109 | debit           | 0000-00-00 00:00:00 |  450000 |
|           40 |           10 |           110 | kredit          | 0000-00-00 00:00:00 |  500000 |
|           41 |           11 |           111 | kredit          | 0000-00-00 00:00:00 |  550000 |
|           42 |           12 |           112 | kredit          | 0000-00-00 00:00:00 |  600000 |
|           43 |           13 |           113 | kredit          | 0000-00-00 00:00:00 |  650000 |
|           44 |           14 |           114 | kredit          | 0000-00-00 00:00:00 |  700000 |
|           45 |           15 |           115 | kredit          | 0000-00-00 00:00:00 |  750000 |
|           46 |           16 |           116 | kredit          | 0000-00-00 00:00:00 |  800000 |
|           47 |           17 |           117 | kredit          | 0000-00-00 00:00:00 |  850000 |
|           48 |           18 |           118 | kredit          | 0000-00-00 00:00:00 |  900000 |
|           49 |           19 |           119 | kredit          | 0000-00-00 00:00:00 |  950000 |
|           50 |           20 |           120 | kredit          | 0000-00-00 00:00:00 | 1000000 |
+--------------+--------------+---------------+-----------------+---------------------+---------+
15 rows in set (0.002 sec)
```

2. Assignment

```
MariaDB [perbankan]> SELECT jumlah FROM transaksi WHERE jumlah IN (SELECT MAX(jumlah) FROM transaksi);
+---------+
| jumlah  |
+---------+
| 1000000 |
+---------+
1 row in set (0.106 sec)
```

```
MariaDB [perbankan]> SELECT DISTINCT jumlah FROM transaksi WHERE jumlah IN (SELECT MIN(jumlah) FROM transaksi);
+--------+
| jumlah |
+--------+
|  20000 |
+--------+
1 row in set (0.001 sec)
```

```
MariaDB [perbankan]> SELECT nama_nasabah, jumlah FROM nasabah, transaksi WHERE jumlah = (SELECT MAX(jumlah) FROM transaksi) GROUP BY jumlah;
+--------------+---------+
| nama_nasabah | jumlah  |
+--------------+---------+
| Sutopo       | 1000000 |
+--------------+---------+
1 row in set (0.001 sec)
```

```
MariaDB [perbankan]> SELECT nama_nasabah, jumlah FROM nasabah, transaksi WHERE jumlah = (SELECT MIN(jumlah) FROM transaksi) GROUP BY jumlah;
+--------------+--------+
| nama_nasabah | jumlah |
+--------------+--------+
| Sutopo       |  20000 |
+--------------+--------+
1 row in set (0.001 sec)
```

```
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 (0.047 sec)
```

```
MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> SELECT * FROM nasabah WHERE nasabah.id_nasabah IN (SELECT DISTINCT transaksi.id_nasabahFK from transaksi WHERE jenis_transaksi="kredit");
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|          5 | Budi Eko Prayogo       | Jl. Kantil 30          |
|          9 | Canka Lokananta        | Jl. Tidar 86           |
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|         19 | Ganno Tribuana Kurniaji | Jl. Tidar 86          |
|         20 | Nur Annida I'ffah Supardi | Jl. Merak 22        |
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17 rows in set (0.361 sec)
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Empty set (0.052 sec)

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```

```
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+-------------+---------------------+--------------+
| kode_cabang | nama_cabang         | rata2        |
+-------------+---------------------+--------------+
| BRUB        | Bank Rut Unit Boyolali | 1400000.0000 |
+-------------+---------------------+--------------+
1 row in set (0.102 sec)
```

```
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+--------------+--------------+---------------+-----------------+---------------------+----------+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah   |
+--------------+--------------+---------------+-----------------+---------------------+----------+
|           36 |            6 |           106 | debit           | 0000-00-00 00:00:00 |   300000 |
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|           39 |            9 |           109 | debit           | 0000-00-00 00:00:00 |   450000 |
|           40 |           10 |           110 | kredit          | 0000-00-00 00:00:00 |   500000 |
|           41 |           11 |           111 | kredit          | 0000-00-00 00:00:00 |   550000 |
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|           43 |           13 |           113 | kredit          | 0000-00-00 00:00:00 |   650000 |
|           44 |           14 |           114 | kredit          | 0000-00-00 00:00:00 |   700000 |
|           45 |           15 |           115 | kredit          | 0000-00-00 00:00:00 |   750000 |
|           46 |           16 |           116 | kredit          | 0000-00-00 00:00:00 |   800000 |
|           47 |           17 |           117 | kredit          | 0000-00-00 00:00:00 |   850000 |
|           48 |           18 |           118 | kredit          | 0000-00-00 00:00:00 |   900000 |
|           49 |           19 |           119 | kredit          | 0000-00-00 00:00:00 |   950000 |
|           50 |           20 |           120 | kredit          | 0000-00-00 00:00:00 |  1000000 |
+--------------+--------------+---------------+-----------------+---------------------+----------+
15 rows in set (0.002 sec)

MariaDB [perbankan]> SELECT jumlah FROM transaksi WHERE jumlah IN (SELECT MAX(jumlah) FROM transaksi);
+---------+
| jumlah  |
+---------+
| 1000000 |
+---------+
1 row in set (0.106 sec)

MariaDB [perbankan]> SELECT DISTINCT jumlah FROM transaksi WHERE jumlah IN (SELECT MIN(jumlah) FROM transaksi);
+--------+
| jumlah |
+--------+
|  20000 |
+--------+
1 row in set (0.001 sec)

MariaDB [perbankan]> SELECT nama_nasabah, jumlah FROM nasabah, transaksi WHERE jumlah = (SELECT MAX(jumlah) FROM transaksi) GROUP BY jumlah;
+--------------+---------+
| nama_nasabah | jumlah  |
+--------------+---------+
| Sutopo       | 1000000 |
+--------------+---------+
1 row in set (0.001 sec)

MariaDB [perbankan]> SELECT nama_nasabah, jumlah FROM nasabah, transaksi WHERE jumlah = (SELECT MIN(jumlah) FROM transaksi) GROUP BY jumlah;
+--------------+--------+
| nama_nasabah | jumlah |
+--------------+--------+
| Sutopo       |  20000 |
+--------------+--------+
1 row in set (0.001 sec)
```