

**DATABASE SYSTEMS PRACTICUM**  
**PRACTICUM 10**



**By:**

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**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.kode_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       | 100000 |
+-----+-----+
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");
+-----+-----+-----+
| 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 |
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+-----+-----+-----+
17 rows in set (0.361 sec)
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```
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 |
+-----+-----+-----+
| 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
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15 rows in set (0.002 sec)
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```

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)
```