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Modul 8

Latihan

No 5.

Tampilkan tanggal transaksi, jenis transaksi, dan jumlah transaksi untuk semua transaksi yang dilakukan oleh Sutopo dan Canka Lokananta dan diurutkan berdasarkan tanggal transaksi.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT transaksi.tanggal, transaksi.jenis_transaksi, transaksi.jumlah from nasabah, transaksi WHERE
nasabah.id_nasabah=transaksi.id_nasabahFK AND nasabah.nama_nasabah IN('Sutopo','Canka Lokananta') ORDER BY transaksi.ta
nggal;
+-----+-----+-----+
| tanggal | jenis_transaksi | jumlah |
+-----+-----+-----+
| 2020-04-21 15:46:24 | DEBIT | 50000 |
| 2020-04-21 15:46:24 | KREDIT | 100000 |
| 2020-04-21 15:46:24 | KREDIT | 200000 |
| 2020-04-21 15:46:24 | KREDIT | 150000 |
| 2020-04-21 15:46:24 | DEBIT | 50000 |
| 2020-04-21 17:16:21 | KREDIT | 500000 |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

No 6.

Tampilkan tanggal transaksi, nama nasabah, jenis transaksi, dan jumlah transaksi untuk semua transaksi yang terjadi dari 15 November sampai 20 November 2009 dan diurutkan berdasarkan tanggal transaksi dan nama nasabah.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT transaksi.tanggal, nasabah.nama_nasabah, transaksi.jenis_transaksi, transaksi.jumlah FROM na
sabah, transaksi WHERE transaksi.tanggal BETWEEN '2020-04-21' AND '2020-04-22' AND nasabah.id_nasabah = transaksi.id_nas
abahFK ORDER BY transaksi.tanggal, nasabah.nama_nasabah;
+-----+-----+-----+-----+
| tanggal | nama_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+-----+
| 2020-04-21 15:46:24 | Budi Eko Prayogo | DEBIT | 20000 |
| 2020-04-21 15:46:24 | Budi Eko Prayogo | DEBIT | 20000 |
| 2020-04-21 15:46:24 | Budi Eko Prayogo | KREDIT | 30000 |
| 2020-04-21 15:46:24 | Budi Eko Prayogo | DEBIT | 50000 |
| 2020-04-21 15:46:24 | Budi Eko Prayogo | KREDIT | 200000 |
| 2020-04-21 15:46:24 | Budi Murtono | DEBIT | 100000 |
| 2020-04-21 15:46:24 | Canka Lokananta | KREDIT | 150000 |
| 2020-04-21 15:46:24 | Kartika Padmasari | KREDIT | 20000 |
| 2020-04-21 15:46:24 | Kartika Padmasari | KREDIT | 20000 |
| 2020-04-21 15:46:24 | Kartika Padmasari | KREDIT | 200000 |
| 2020-04-21 15:46:24 | Kartika Padmasari | DEBIT | 100000 |
| 2020-04-21 15:46:24 | Kartika Padmasari | DEBIT | 50000 |
| 2020-04-21 15:46:24 | MARYATI | DEBIT | 50000 |
| 2020-04-21 15:46:24 | MARYATI | DEBIT | 100000 |
| 2020-04-21 15:46:24 | MARYATI | KREDIT | 100000 |
| 2020-04-21 15:46:24 | MARYATI | KREDIT | 200000 |
| 2020-04-21 15:46:24 | MARYATI | DEBIT | 40000 |
| 2020-04-21 15:46:24 | MARYATI | DEBIT | 40000 |
| 2020-04-21 15:46:24 | SUPARMAN | KREDIT | 100000 |
| 2020-04-21 15:46:24 | SUPARMAN | DEBIT | 50000 |
| 2020-04-21 15:46:24 | SUPARMAN | KREDIT | 50000 |
| 2020-04-21 15:46:24 | SUPARMAN | DEBIT | 50000 |
| 2020-04-21 15:46:24 | SUPARMAN | DEBIT | 40000 |
| 2020-04-21 15:46:24 | SUPARMAN | KREDIT | 50000 |
+-----+-----+-----+-----+
```

```

Command Prompt - mysql -u root -p
2020-04-21 15:46:24 | SUPARMAN | KREDIT | 100000 |
2020-04-21 15:46:24 | SUPARMAN | DEBIT | 50000 |
2020-04-21 15:46:24 | SUPARMAN | KREDIT | 50000 |
2020-04-21 15:46:24 | SUPARMAN | DEBIT | 50000 |
2020-04-21 15:46:24 | SUPARMAN | DEBIT | 40000 |
2020-04-21 15:46:24 | SUPARMAN | KREDIT | 50000 |
2020-04-21 15:46:24 | SUTOPO | KREDIT | 200000 |
2020-04-21 15:46:24 | SUTOPO | DEBIT | 50000 |
2020-04-21 15:46:24 | SUTOPO | KREDIT | 100000 |
2020-04-21 15:46:24 | SUTOPO | DEBIT | 50000 |
2020-04-21 17:16:21 | Budi Murtono | DEBIT | 100000 |
2020-04-21 17:16:21 | Kartika Padmasari | KREDIT | 150000 |
2020-04-21 17:16:21 | Leonard | DEBIT | 500000 |
2020-04-21 17:16:21 | Leonard | DEBIT | 1000000 |
2020-04-21 17:16:21 | Mario Susanto | DEBIT | 50000 |
2020-04-21 17:16:21 | MARYATI | DEBIT | 100000 |
2020-04-21 17:16:21 | Nizar Armando | KREDIT | 1000000 |
2020-04-21 17:16:21 | Nizar Armando | DEBIT | 4500000 |
2020-04-21 17:16:21 | Rifan Anwar | KREDIT | 1500000 |
2020-04-21 17:16:21 | Roban Aliman | DEBIT | 200000 |
2020-04-21 17:16:21 | Ronald Weho | DEBIT | 100000 |
2020-04-21 17:16:21 | Sari Murti | DEBIT | 500000 |
2020-04-21 17:16:21 | Satria Eka Jaya | DEBIT | 400000 |
2020-04-21 17:16:21 | Sonnia Amalia | DEBIT | 500000 |
2020-04-21 17:16:21 | SUPARMAN | DEBIT | 2000000 |
2020-04-21 17:16:21 | SUPARMAN | KREDIT | 990000 |
2020-04-21 17:16:21 | SUTOPO | KREDIT | 500000 |
45 rows in set (0.04 sec)

```

No 7

Tampilkan jenis transaksi dan total jumlah transaksi (dalam rupiah) untuk tiap jenis transaksi dan diurutkan berdasarkan jenis transaksi.

```

Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT transaksi.jenis_transaksi AS "Jenis Transaksi", SUM(jumlah) AS "Jumlah(Rp)" FROM transaksi GROUP BY transaksi.jenis_transaksi ORDER BY transaksi.jenis_transaksi;
+-----+-----+
| Jenis Transaksi | Jumlah(Rp) |
+-----+-----+
| DEBIT           | 160800000 |
| KREDIT          | 55600000  |
+-----+-----+
2 rows in set (0.00 sec)

```

No 8

Tampilkan jenis transaksi, jumlah transaksi yang terbesar serta yang terkecil untuk tiap jenis transaksi dan diurutkan berdasarkan jenis transaksi.

```

Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT jenis_transaksi AS "Jenis Transaksi", MAX(jumlah) AS "Transksi Terbesar", MIN(jumlah) AS "Transaksi Terkecil" FROM transaksi GROUP BY transaksi.jenis_transaksi ORDER BY transaksi.jenis_transaksi;
+-----+-----+-----+
| Jenis Transaksi | Transksi Terbesar | Transaksi Terkecil |
+-----+-----+-----+
| DEBIT           | 5000000          | 20000              |
| KREDIT          | 1500000          | 20000              |
+-----+-----+-----+
2 rows in set (0.00 sec)

```

No 9

Tampilkan jenis transaksi, total jumlah transaksi (dalam rupiah), dan banyaknya transaksi yang tercatat untuk tiap jenis transaksi yang terjadi sebelum bulan Desember 2009 dan diurutkan berdasarkan jenis transaksi.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> SELECT jenis_transaksi AS "Jenis Transaksi", SUM(jumlah) AS "Jumlah(Rp)", COUNT(jumlah) AS "Jumlah Transaksi" FROM transaksi WHERE tanggal BETWEEN '2020-04-1' AND '2020-04-30' GROUP BY transaksi.jenis_transaksi ORDER BY transaksi.jenis_transaksi;
+-----+-----+-----+
| Jenis Transaksi | Jumlah(Rp) | Jumlah Transaksi |
+-----+-----+-----+
| DEBIT          | 16080000   | 31               |
| KREDIT         | 5560000    | 18               |
+-----+-----+-----+
2 rows in set (0.00 sec)

MariaDB [perbankan]>
```

TUGAS AGREGASI

No 1.

Tampilkan jenis transaksi, jumlah transaksi dalam Rp dan total transaksi untuk nasabah yang bernama akhiran 'Kartika Padmasari' untuk masing-masing jenis transaksi.

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select jenis_transaksi as "Jenis Transaksi", jumlah as "Jumlah(Rp)", count(jumlah) as "Total Transaksi"
-> from transaksi, nasabah where nasabah.id_nasabah=transaksi.id_nasabahFK
-> and nasabah.nama_nasabah in("Kartika Padmasari") group by jenis_transaksi;
+-----+-----+-----+
| Jenis Transaksi | Jumlah(Rp) | Total Transaksi |
+-----+-----+-----+
| DEBIT          | 100000     | 2               |
| KREDIT         | 20000      | 4               |
+-----+-----+-----+
2 rows in set (0.11 sec)
```

No 2.

Berapa jumlah total saldo yang dimiliki oleh Maryati

```
MariaDB [perbankan]> select nama_nasabah as "Nama Nasabah", sum(saldo) as "Saldo(Rp)"
-> from nasabah, rekening, nasabah_has_rekening where nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK
-> and rekening.no_rekening=nasabah_has_rekening.no_rekeningFK and nama_nasabah='Maryati';
+-----+-----+
| Nama Nasabah | Saldo(Rp) |
+-----+-----+
| MARYATI      | 750000    |
+-----+-----+
1 row in set (0.13 sec)
```

No 3.

Tampilkan jumlah transaksi yang ditangani oleh masing-masing cabang bank

```
MariaDB [perbankan]> select cabang_bank.nama_cabang as 'Nama Cabang', count(jumlah) as 'Jumlah Transaksi'
-> from cabang_bank, transaksi, rekening where cabang_bank.kode_cabang=rekening.kode_cabangFK
-> and rekening.no_rekening=transaksi.no_rekeningFK group by cabang_bank.nama_cabang order by cabang_bank.nama_cabang;
```

Nama Cabang	Jumlah Transaksi
Bank Rut Unit Boyolali	6
Bank Rut Unit Cawas	4
Bank Rut Unit Delanggu	1
Bank Rut Unit Klaten	2
Bank Rut Unit Nglipar	1
Bank Rut Unit Surakarta	21
Bank Rut Unit Ungaran	1
Bank Rut Unit Yogyakarta	3

```
8 rows in set (0.02 sec)
```

No 4.

Tampilkan nama nasabah dan jumlah saldo yang memiliki saldo antara Rp 500000 sampai 2000000

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select nama_nasabah as "Nama Nasabah", saldo as "Jumlah Saldo(Rp)"
-> from nasabah, rekening, transaksi where transaksi.no_rekeningFK=rekening.no_rekening
-> and transaksi.id_nasabahFK=nasabah.id_nasabah
-> and rekening.saldo between 500000 and 2000000;

+-----+-----+
| Nama Nasabah | Jumlah Saldo(Rp) |
+-----+-----+
| SUPARMAN     | 2000000          |
| MARYATI      | 750000           |
| Kartika Padmasari | 500000          |
| Budi Eko Prayogo | 1000000          |
| SUTOPO       | 900000           |
| Canka Lokananta | 550000           |
| SUPARMAN     | 2000000          |
| Kartika Padmasari | 1000000          |
| MARYATI      | 750000           |
| SUTOPO       | 900000           |
| Kartika Padmasari | 1000000          |
| SUPARMAN     | 2000000          |
| SUTOPO       | 900000           |
| Kartika Padmasari | 500000           |
| MARYATI      | 750000           |
| MARYATI      | 750000           |
| SUPARMAN     | 2000000          |
| SUTOPO       | 900000           |
| MARYATI      | 750000           |
| Kartika Padmasari | 500000           |
| MARYATI      | 750000           |
| Leonard      | 500000           |
| Ronald Weho   | 900000           |
| Rifan Anwar   | 1500000          |
| MARYATI      | 750000           |
| SUTOPO       | 900000           |
| Kartika Padmasari | 1000000          |
| SUPARMAN     | 2000000          |
| Sonnia Amalia | 500000           |
| Roban Aliman  | 500000           |
+-----+-----+
30 rows in set (0.00 sec)
```


No 5.

Tampilkan nama nasabah, tanggal transaksi, dan jumlah transaksi dalam Rp di mana jumlah transaksi di atas Rp 100000 dan urutkan berdasarkan jumlah transaksi dari yang besar ke yang kecil

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select nama_nasabah as "Nama Nasabah", tanggal as "Tanggal Transaksi", sum(jumlah) as "Jumlah(Rp)"
-> from nasabah, transaksi where nasabah.id_nasabah=transaksi.id_nasabahFK
-> and transaksi.jumlah >100000 group by nama_nasabah, jumlah order by jumlah desc;
+-----+-----+-----+
| Nama Nasabah | Tanggal Transaksi | Jumlah(Rp) |
+-----+-----+-----+
| Nizar Armando | 2020-04-21 17:16:21 | 4500000 |
| SUPARMAN | 2020-04-21 17:16:21 | 2000000 |
| Rifan Anwar | 2020-04-21 17:16:21 | 1500000 |
| Leonard | 2020-04-21 17:16:21 | 1000000 |
| Nizar Armando | 2020-04-21 17:16:21 | 1000000 |
| SUPARMAN | 2020-04-21 17:16:21 | 990000 |
| SUTOPO | 2020-04-21 17:16:21 | 500000 |
| Sari Murti | 2020-04-21 17:16:21 | 500000 |
| Leonard | 2020-04-21 17:16:21 | 500000 |
| Sonnia Amalia | 2020-04-21 17:16:21 | 500000 |
| Satria Eka Jaya | 2020-04-21 17:16:21 | 400000 |
| Kartika Padmasari | 2020-04-21 15:46:24 | 200000 |
| MARYATI | 2020-04-21 15:46:24 | 200000 |
| SUTOPO | 2020-04-21 15:46:24 | 200000 |
| Budi Eko Prayogo | 2020-04-21 15:46:24 | 200000 |
| Roban Aliman | 2020-04-21 17:16:21 | 200000 |
| Kartika Padmasari | 2020-04-21 17:16:21 | 150000 |
| Canka Lokananta | 2020-04-21 15:46:24 | 150000 |
+-----+-----+-----+
18 rows in set (0.00 sec)

MariaDB [perbankan]> _
```

No 6.

Buatlah 5 buah soal dengan jawabannya menurut versi Anda sendiri yang menggunakan fungsi aggregasi

- Tampilkan no rekening nasabah, total jumlah transaksi untuk setiap jenis transaksi dan diurutkan berdasarkan urutan transaksi.

```
MariaDB [perbankan]> select no_rekeningFK as "No Rekening Nasabah", SUM(jumlah) as "Jumlah(Rp)"
-> from transaksi group by transaksi.jenis_transaksi order by transaksi.jenis_transaksi;
+-----+-----+
| No Rekening Nasabah | Jumlah(Rp) |
+-----+-----+
| 105 | 16080000 |
| 101 | 5560000 |
+-----+-----+
2 rows in set (0.00 sec)
```

- Tampilkan nama nasabah, jenis transaksi, dan rata-rata jumlah transaksi untuk setiap nasabah yang melakukan transaksi diurutkan berdasarkan rata-rata jumlah transaksi.

```

C:\> Command Prompt - mysql -u root -p
MariaDB [perbankan]> select nama_nasabah as "Nama Nasabah", jenis_transaksi as "Jenis Transaksi", avg(jumlah) as "Rata-rata(Rp)"
-> from nasabah,transaksi where nasabah.id_nasabah=transaksi.id_nasabahFK group by nama_nasabah, jenis_transaksi order by "Rata-rata(Rp)";
+-----+-----+-----+
| Nama Nasabah | Jenis Transaksi | Rata-rata(Rp) |
+-----+-----+-----+
| SUPARMAN     | DEBIT           | 535000.0000    |
| MARYATI      | DEBIT           | 66000.0000     |
| Kartika Padmasari | KREDIT         | 97500.0000     |
| Budi Eko Prayogo | KREDIT         | 115000.0000    |
| SUTOPO       | KREDIT         | 266666.6667    |
| Canka Lokananta | KREDIT         | 150000.0000    |
| Budi Eko Prayogo | DEBIT          | 30000.0000     |
| SUPARMAN     | KREDIT         | 297500.0000    |
| Kartika Padmasari | DEBIT          | 75000.0000     |
| SUTOPO       | DEBIT          | 50000.0000     |
| Budi Murtono  | DEBIT          | 100000.0000    |
| MARYATI      | KREDIT         | 150000.0000    |
| Leonard      | DEBIT          | 750000.0000    |
| Ronald Weho   | DEBIT          | 100000.0000    |
| Mario Susanto | DEBIT          | 50000.0000     |
| Nizar Armando | KREDIT         | 1000000.0000   |
| Rifan Anwar   | KREDIT         | 1500000.0000   |
| Sari Murti    | DEBIT          | 500000.0000    |
| Nizar Armando | DEBIT          | 4500000.0000   |
| Satria Eka Jaya | DEBIT          | 400000.0000    |
| Sonnia Amalia | DEBIT          | 500000.0000    |
| Roban Aliman  | DEBIT          | 200000.0000    |
+-----+-----+-----+
22 rows in set (0.00 sec)

MariaDB [perbankan]>

```

- Tampilkan jumlah total saldo yang dimiliki oleh cabang.

```

C:\> Command Prompt - mysql -u root -p
MariaDB [perbankan]> select SUM(saldo) as 'Total Saldo (Bank Rut Unit Cawas)'
-> from rekening where rekening.kode_cabangFK='BRUC';
+-----+
| Total Saldo (Bank Rut Unit Cawas) |
+-----+
| 4800000 |
+-----+
1 row in set (0.00 sec)

```

- Tampilkan nama nasabah, tanggal transaksi, dan jumlah transaksi dimana jumlah transaksi diatas Rp 200000 dan urutkan berdasarkan jumlah transaksi dari yang besar ke yang kecil.

```

C:\> Command Prompt - mysql -u root -p
MariaDB [perbankan]> select nama_nasabah as "Nama Nasabah", tanggal as "Tanggal Transaksi", SUM(jumlah) as 'Jumlah(Rp)'
-> from nasabah, transaksi where nasabah.id_nasabah=transaksi.id_nasabahFK
-> and transaksi.jumlah >200000 group by nama_nasabah, jumlah order by jumlah desc;
+-----+-----+-----+
| Nama Nasabah | Tanggal Transaksi | Jumlah(Rp) |
+-----+-----+-----+
| Nizar Armando | 2020-04-21 17:16:21 | 4500000 |
| SUPARMAN | 2020-04-21 17:16:21 | 2000000 |
| Rifan Anwar | 2020-04-21 17:16:21 | 1500000 |
| Nizar Armando | 2020-04-21 17:16:21 | 1000000 |
| Leonard | 2020-04-21 17:16:21 | 1000000 |
| SUPARMAN | 2020-04-21 17:16:21 | 990000 |
| SUTOPO | 2020-04-21 17:16:21 | 500000 |
| Sari Murti | 2020-04-21 17:16:21 | 500000 |
| Leonard | 2020-04-21 17:16:21 | 500000 |
| Sonnia Amalia | 2020-04-21 17:16:21 | 500000 |
| Satria Eka Jaya | 2020-04-21 17:16:21 | 400000 |
+-----+-----+-----+
11 rows in set (0.14 sec)

```

- Tampilkan nama nasabah, alamat nasabah dan jumlah saldo yang memiliki saldo dibawah Rp 200000 berdasarkan nama nasabah.

```

C:\> Command Prompt - mysql -u root -p
MariaDB [perbankan]> select nama_nasabah as 'Nama Nasabah', tanggal as 'Tanggal Transaksi', SUM(jumlah) as 'Jumlah(Rp)'
-> from nasabah, transaksi where nasabah.id_nasabah=transaksi.id_nasabahFK
-> and transaksi.jumlah <200000 group by nama_nasabah, jumlah order by jumlah desc;
+-----+-----+-----+
| Nama Nasabah | Tanggal Transaksi | Jumlah(Rp) |
+-----+-----+-----+
| Canka Lokananta | 2020-04-21 15:46:24 | 150000 |
| Kartika Padmasari | 2020-04-21 17:16:21 | 150000 |
| MARYATI | 2020-04-21 15:46:24 | 300000 |
| SUPARMAN | 2020-04-21 15:46:24 | 100000 |
| Kartika Padmasari | 2020-04-21 15:46:24 | 100000 |
| Ronald Weho | 2020-04-21 17:16:21 | 100000 |
| Budi Murtono | 2020-04-21 15:46:24 | 200000 |
| SUTOPO | 2020-04-21 15:46:24 | 100000 |
| Mario Susanto | 2020-04-21 17:16:21 | 50000 |
| MARYATI | 2020-04-21 15:46:24 | 50000 |
| SUTOPO | 2020-04-21 15:46:24 | 100000 |
| Kartika Padmasari | 2020-04-21 15:46:24 | 50000 |
| Budi Eko Prayogo | 2020-04-21 15:46:24 | 50000 |
| SUPARMAN | 2020-04-21 15:46:24 | 200000 |
| MARYATI | 2020-04-21 15:46:24 | 80000 |
| SUPARMAN | 2020-04-21 15:46:24 | 40000 |
| Budi Eko Prayogo | 2020-04-21 15:46:24 | 30000 |
| Budi Eko Prayogo | 2020-04-21 15:46:24 | 40000 |
| Kartika Padmasari | 2020-04-21 15:46:24 | 40000 |
+-----+-----+-----+
19 rows in set (0.00 sec)

```