

Nama : Resky Budi NUgroho
NIM : L200180018
Kelas : A

Modul 8

Latihan

1. Nomor 5

```
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 Lokanata") ORDER BY transaksi.ta
nggal;
+-----+-----+-----+
| tanggal | jenis_transaksi | jumlah |
+-----+-----+-----+
| 2009-11-15 | kredit          | 200000 |
| 2009-11-19 | debit           | 50000  |
| 2009-11-22 | kredit          | 100000 |
| 2009-12-01 | debit           | 50000  |
+-----+-----+-----+
4 rows in set (0.07 sec)
```

2. Nomor 6

```
MariaDB [perbankan]> select transaksi.tanggal, nasabah.nama_nasabah, transaksi.jenis_transaksi, transaksi.jumlah from na
sabah, transaksi WHERE transaksi.tanggal BETWEEN "2009-11-15" AND "2009-11-20" AND nasabah.id_nasabah=transaksi.id_nasab
ahFK ORDER BY transaksi.tanggal, nasabah.nama_nasabah;
+-----+-----+-----+-----+
| tanggal | nama_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+-----+
| 2009-11-15 | Canka Lokananta | kredit          | 150000 |
| 2009-11-15 | Sutopo          | kredit          | 200000 |
| 2009-11-16 | Budi Eko Prayogo | debit           | 20000  |
| 2009-11-18 | Superman        | kredit          | 50000  |
| 2009-11-19 | Kartika Padmasari | debit           | 100000 |
| 2009-11-19 | Maryati         | debit           | 100000 |
| 2009-11-19 | Sutopo          | debit           | 50000  |
| 2009-11-20 | Kartika Padmasari | kredit          | 200000 |
+-----+-----+-----+-----+
8 rows in set (0.06 sec)
```

3. Nomor 7

```
MariaDB [perbankan]> select transaksi.jenis_transaksi AS "Jenis Transaksi",SUM(jumlah) AS "Jumlah (Rp)" from transaksi G
ROUP BY transaksi.jenis_transaksi ORDER BY transaksi.jenis_transaksi;
+-----+-----+
| Jenis Transaksi | Jumlah (Rp) |
+-----+-----+
| debit           | 49920000    |
| kredit          | 15320000    |
+-----+-----+
2 rows in set (0.07 sec)
```

4. Nomor 8

```
MariaDB [perbankan]> select jenis_transaksi AS "Jenis Transaksi", MAX(jumlah) AS "Transaksi Terbesar",MIN(jumlah) AS "Tr
ansaksi Terkecil" from transaksi GROUP BY transaksi.jenis_transaksi ORDER BY transaksi.jenis_transaksi;
+-----+-----+-----+
| Jenis Transaksi | Transaksi Terbesar | Transaksi Terkecil |
+-----+-----+-----+
| debit           | 13200000          | 20000              |
| kredit          | 10000000           | 20000              |
+-----+-----+-----+
2 rows in set (0.03 sec)
```

5. Nomor 9

```
MariaDB [perbankan]> select jenis_transaksi AS "Jenis Transaksi", SUM(jumlah) AS "Jumlah (Rp)", COUNT(jumlah) AS "Jumlah Transaksi" from transaksi WHERE tanggal BETWEEN "2009-11-1" AND "2009-11-30" GROUP BY transaksi.jenis_transaksi ORDER BY transaksi.jenis_transaksi;
```

Jenis Transaksi	Jumlah (Rp)	Jumlah Transaksi
debit	670000	12
kredit	1120000	11

2 rows in set (0.00 sec)

Tugas

1. Nomor 1

```
MariaDB [perbankan]> select transaksi.jenis_transaksi, transaksi.jumlah AS "Jumlah (Rp)",SUM(jumlah) AS "Total Transaksi"
  " from nasabah, transaksi WHERE nasabah.id_nasabah=transaksi.id_nasabahFK AND nasabah.nama_nasabah LIKE "%Kartika Padma
sari" GROUP BY transaksi.jenis_transaksi;
+-----+
| jenis_transaksi | Jumlah (Rp) | Total Transaksi |
+-----+
| debit          | 100000      | 150000          |
| kredit         | 20000       | 240000          |
+-----+
```

2 rows in set (0.00 sec)

2. Nomor 2

```
MariaDB [perbankan]> select rekening.saldo from nasabah,rekening,nasabah_has_rekening WHERE rekening.no_rekening=nasabah
_has_rekening.no_rekeningFK AND nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK AND nasabah.nama_nasabah IN ("Marya
ti");
+-----+
| saldo |
+-----+
| 750000 |
+-----+
```

1 row in set (0.00 sec)

3. Nomor 3

```
MariaDB [perbankan]> select transaksi.jumlah, cabang_bank.nama_cabang from transaksi, rekening, cabang_bank WHERE rekeni
ng.no_rekening=transaksi.no_rekeningFK AND cabang_bank.kode_cabang=rekening.kode_cabangFK GROUP BY cabang_bank.nama_caba
ng;
+-----+
| jumlah | nama_cabang |
+-----+
| 5600000 | Bank Rut Unit Ampel |
| 100000  | Bank Rut Unit Boyolali |
| 500000  | Bank Rut Unit Gunung Cemani |
| 100000  | Bank Rut Unit Gunung Kidul |
| 120000  | Bank Rut Unit Kudus |
| 40000   | Bank Rut Unit Lembang |
| 200000  | Bank Rut Unit Pati |
| 300000  | Bank Rut Unit Rembang |
| 40000   | Bank Rut Unit Surakarta |
| 100000  | Bank Rut Unit Tegal |
| 1320000 | Bank Rut Unit Wonogiri |
| 150000  | Bank Rut Unit Yogyakarta |
+-----+
```

12 rows in set (0.00 sec)

4. Nomor 4

```
MariaDB [perbankan]> select nasabah.nama_nasabah,rekening.saldo from nasabah,rekening,nasabah_has_rekening WHERE rekeni
ng.no_rekening=nasabah_has_rekening.no_rekeningFK AND nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK AND rekening.s
aldo BETWEEN 500000 AND 2000000;
+-----+
| nama_nasabah | saldo |
+-----+
| Sutopo       | 900000 |
| Maryati      | 750000 |
| Superman     | 2000000 |
| Kartika Padmasari | 500000 |
| Kartika Padmasari | 1000000 |
| Budi Eko Prayogo | 1000000 |
| Canka Lokananta | 550000 |
| Apip         | 530000 |
+-----+
```

8 rows in set (0.00 sec)

5. Nomor 5

```
MariaDB [perbankan]> select nasabah.nama_nasabah, transaksi.tanggal, transaksi.jumlah AS "Jumlah (Rp)" from transaksi,nasabah WHERE nasabah.id_nasabah=transaksi.id_nasabahFK AND transaksi.jumlah >= 100000 ORDER BY transaksi.jumlah DESC;
```

nama_nasabah	tanggal	Jumlah (Rp)
Ayu	2009-12-08	13200000
Apip	2009-12-11	11000000
Apip	2009-12-11	10000000
Amir	2009-12-10	9000000
Ayu	2009-12-12	7770000
Aisyah	2009-12-09	5600000
Amin	2009-12-10	990000
Acil	2009-12-11	990000
Aisyah	2009-12-08	900000
Agus	2009-12-10	700000
Ajeng	2009-12-12	690000
Amar	2009-12-09	600000
Ajeng	2009-12-08	500000
Aisyah	2009-12-08	300000
Sutopo	2009-11-15	200000
Amin	2009-12-07	200000
Kartika Padmasari	2009-11-20	200000
Maryati	2009-11-28	200000
Budi Eko Prayogo	2009-12-05	200000
Canka Lokananta	2009-11-15	150000
Apip	2009-12-07	120000
Maryati	2009-12-05	100000
Abang	2009-12-08	100000
Budi Murtono	2009-11-26	100000
Sutopo	2009-11-22	100000
Maryati	2009-11-19	100000
Kartika Padmasari	2009-11-19	100000
Acil	2009-12-07	100000
Superman	2009-11-28	100000

```
29 rows in set (0.00 sec)
```

6. Soal mandiri

- a. Tampilkan rata-rata jumlah transaksi

```
MariaDB [perbankan]> select AVG(jumlah) AS "Rata-rata Transaksi" from transaksi;
```

Rata-rata Transaksi
1304800.0000

```
1 row in set (0.00 sec)
```

- b. Tampilkan total jumlah transaksi yang dilakukan pada bulan November hingga Desember 2009

```
MariaDB [perbankan]> select SUM(jumlah) AS "Total Jumlah Tansaksi" from transaksi WHERE tanggal BETWEEN "2009-11-01" AND "2009-12-31";
```

Total Jumlah Tansaksi
65240000

```
1 row in set (0.00 sec)
```

- c. Tampilkan banyaknya transaksi yang dilakukan oleh Apip

```
MariaDB [perbankan]> select count(*) AS "Jumlah transaks yang dilakukan" from transaksi, nasabah WHERE nasabah.id_nasabah=transaksi.id_nasabahFK AND nasabah.nama_nasabah IN ("Apip");
```

Jumlah transaks yang dilakukan
3

```
1 row in set (0.00 sec)
```

- d. Tampilkan saldo terbanyak yang terdapat pada cabang "BRUS"

```
MariaDB [perbankan]> select MAX(saldo) AS "Saldo terbanyak" from rekening WHERE kode_cabangFK IN("BRUS");
```

Saldo terbanyak
3000000

```
1 row in set (0.00 sec)
```

- e. Tampilkan saldo antara 99999 hingga 999999 yang terdapat pada cabang "BRUY"

```
MariaDB [perbankan]> select saldo from rekening WHERE kode_cabangFK IN("BRUY") AND saldo BETWEEN 99999 AND 999999;
+-----+
| saldo |
+-----+
| 550000 |
| 255000 |
+-----+
2 rows in set (0.00 sec)
```

7. Soal dosen

a.

```
MariaDB [perbankan]> select nasabah.nama_nasabah, transaksi.tanggal, transaksi.jumlah from transaksi,nasabah WHERE nasabah.id_nasabah=transaksi.id_nasabahFK AND transaksi.jenis_transaksi IN ("kredit") AND transaksi.jumlah > 50000 ORDER BY nasabah.nama_nasabah;
+-----+-----+-----+
| nama_nasabah | tanggal | jumlah |
+-----+-----+-----+
| Abang         | 2009-12-08 | 100000 |
| Acil          | 2009-12-07 | 100000 |
| Acil          | 2009-12-11 | 990000 |
| Agus         | 2009-12-10 | 700000 |
| Aisyah       | 2009-12-08 | 900000 |
| Amin         | 2009-12-10 | 990000 |
| Apip         | 2009-12-07 | 120000 |
| Apip         | 2009-12-11 | 1000000 |
| Budi Eko Prayogo | 2009-12-05 | 200000 |
| Canka Lokananta | 2009-11-15 | 150000 |
| Kartika Padmasari | 2009-11-20 | 200000 |
| Maryati      | 2009-11-28 | 200000 |
| Maryati      | 2009-12-05 | 100000 |
| Superman     | 2009-11-28 | 100000 |
| Sutopo       | 2009-11-22 | 100000 |
| Sutopo       | 2009-11-15 | 200000 |
+-----+-----+-----+
16 rows in set (0.00 sec)
```

b.

```
MariaDB [perbankan]> select nasabah.nama_nasabah, cabang_bank.nama_cabang AS "Berasal dari cabang", SUM(transaksi.jumlah) AS "Total jumlah transaksi" from transaksi,nasabah,rekening,cabang_bank WHERE nasabah.id_nasabah=transaksi.id_nasabahFK AND rekening.no_rekening=transaksi.no_rekeningFK AND cabang_bank.kode_cabang=rekening.kode_cabangFK GROUP BY nasabah.nama_nasabah;
+-----+-----+-----+
| nama_nasabah | Berasal dari cabang | Total jumlah transaksi |
+-----+-----+-----+
| Abang         | Bank Rut Unit Tegal | 100000 |
| Acil          | Bank Rut Unit Gunung Kidul | 1090000 |
| Agus         | Bank Rut Unit Lembang | 700000 |
| Aisyah       | Bank Rut Unit Tegal | 6800000 |
| Ajeng        | Bank Rut Unit Gunung Cemani | 1190000 |
| Amar         | Bank Rut Unit Pati | 600000 |
| Amin         | Bank Rut Unit Pati | 1190000 |
| Amir        | Bank Rut Unit Lembang | 9130000 |
| Apip         | Bank Rut Unit Kudus | 21120000 |
| Ayu          | Bank Rut Unit Wonogiri | 20970000 |
| Budi Eko Prayogo | Bank Rut Unit Surakarta | 320000 |
| Budi Murtono | Bank Rut Unit Boyolali | 100000 |
| Canka Lokananta | Bank Rut Unit Yogyakarta | 170000 |
| Kartika Padmasari | Bank Rut Unit Surakarta | 390000 |
| Maryati      | Bank Rut Unit Surakarta | 530000 |
| Superman     | Bank Rut Unit Surakarta | 100000 |
+-----+-----+-----+
16 rows in set (0.00 sec)
```

c.

```
MariaDB [perbankan]> select nasabah.nama_nasabah, AVG(rekening.saldo) AS "Rata-rata saldo" from nasabah,rekening,nasabah_has_rekening WHERE rekening.no_rekening=nasabah_has_rekening.no_rekeningFK AND nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK AND rekening.kode_cabangFK IN ("BRUY") GROUP BY nasabah.nama_nasabah;
+-----+-----+
| nama_nasabah | Rata-rata saldo |
+-----+-----+
| Budi Murtono | 255000.0000 |
| Canka Lokananta | 550000.0000 |
+-----+-----+
2 rows in set (0.08 sec)
```

d.


```
MariaDB [perbankan]> select nasabah.id_nasabah, cabang_bank.nama_cabang, SUM(rekening.saldo-75000) AS "Sisa saldo" from
nasabah,rekening,cabang_bank,nasabah_has_rekening WHERE nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK AND rekening
g.no_rekening=nasabah_has_rekening.no_rekeningFK AND rekening.kode_cabangFK=cabang_bank.kode_cabang GROUP BY nasabah.id_
nasabah;
```

id_nasabah	nama_cabang	Sisa saldo
2	Bank Rut Unit Surakarta	675000
3	Bank Rut Unit Surakarta	2925000
4	Bank Rut Unit Surakarta	1350000
5	Bank Rut Unit Surakarta	1200000
6	Bank Rut Unit Boyolali	-75000
8	Bank Rut Unit Klaten	300000
9	Bank Rut Unit Yogyakarta	475000
10	Bank Rut Unit Boyolali	5105000
11	Bank Rut Unit Pati	-55000
12	Bank Rut Unit Lembang	265000
13	Bank Rut Unit Kudus	455000
14	Bank Rut Unit Gunung Kidul	45000
15	Bank Rut Unit Gunung Cemani	45000
16	Bank Rut Unit Wonogiri	-25000
17	Bank Rut Unit Tegal	127000
18	Bank Rut Unit Tegal	159500
19	Bank Rut Unit Rembang	-30500
20	Bank Rut Unit Tegal	129700

```
18 rows in set (0.08 sec)
```

e.

```
MariaDB [perbankan]> select nasabah.nama_nasabah,rekening.no_rekening,cabang_bank.nama_cabang AS "Asal", transaksi.jumla
h from transaksi,nasabah,rekening,cabang_bank WHERE nasabah.id_nasabah=transaksi.id_nasabahFK AND rekening.no_rekening=t
ransaksi.no_rekeningFK AND cabang_bank.kode_cabang=rekening.kode_cabangFK AND transaksi.no_rekeningFK IN(104) ORDER BY t
ransaksi.jumlah;
```

Empty set (0.00 sec)

```
MariaDB [perbankan]> select nasabah.nama_nasabah,rekening.no_rekening,cabang_bank.nama_cabang AS "Asal", transaksi.jumla
h from transaksi,nasabah,rekening,cabang_bank WHERE nasabah.id_nasabah=transaksi.id_nasabahFK AND rekening.no_rekening=t
ransaksi.no_rekeningFK AND cabang_bank.kode_cabang=rekening.kode_cabangFK AND transaksi.no_rekeningFK IN(103) ORDER BY t
ransaksi.jumlah;
```

nama_nasabah	no_rekening	Asal	jumlah
Maryati	103	Bank Rut Unit Surakarta	40000
Maryati	103	Bank Rut Unit Surakarta	40000
Maryati	103	Bank Rut Unit Surakarta	50000
Maryati	103	Bank Rut Unit Surakarta	100000
Maryati	103	Bank Rut Unit Surakarta	100000
Maryati	103	Bank Rut Unit Surakarta	200000

```
6 rows in set (0.00 sec)
```