

NAMA : DHIYA ULHAQ A

NIM : L200180009

MODUL 8

LATIHAN

1.

```
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.tanggal;
```

tanggal	jenis_transaksi	jumlah
0000-00-00 00:00:00	debit	20000
2009-11-22 00:00:00	debit	50000
2009-11-22 00:00:00	kredit	100000
2009-11-26 00:00:00	kredit	200000
2009-12-02 00:00:00	debit	50000
2009-12-10 00:00:00	kredit	150000

6 rows in set (0.08 sec)

2.

```
MariaDB [perbankan]> select transaksi.tanggal,nasabah.nama_nasabah,transaksi.jenis_transaksi,transaksi.jumlah from nasabah,transaksi where transaksi.tanggal between '2009-11-15' and '2009-11-20' and nasabah.id_nasabah = transaksi.id_nasabahFK order by transaksi.tanggal,nasabah.nama_nasabah;
```

tanggal	nama_nasabah	jenis_transaksi	jumlah
2009-11-15 00:00:00	Kartika Padmasari	debit	40000
2009-11-20 00:00:00	Kartika Padmasari	kredit	20000

2 rows in set (0.00 sec)

3.

```
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	49970000
kredit	15320000

2 rows in set (0.00 sec)

4.

```
MariaDB [perbankan]> select jenis_transaksi as 'Jenis Transaksi', max(jumlah) as 'Transaksi Terbesar', min(jumlah) as 'Transaksi 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 (0.00 sec)

5.

```
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	180000	4
kredit	820000	8

2 rows in set (0.00 sec)

TUGAS

1.

```
MariaDB [perbankan]> select distinct jenis_transaksi, jumlah as 'Jumlah(Rp)', count(jenis_transaksi) as 'Total Transaksi'
from transaksi T, nasabah N where T.id_nasabahFK = N.id_nasabah and N.nama_nasabah like 'Kartika Padmasari%' group by T.jenis_transaksi order by T.jenis_transaksi;
+-----+-----+-----+
| jenis_transaksi | Jumlah(Rp) | Total Transaksi |
+-----+-----+-----+
| debit          | 100000     | 3               |
| kredit         | 20000      | 3               |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

2.

```
MariaDB [perbankan]> select sum(transaksi.jumlah) as 'Jumlah Saldo' from transaksi, nasabah where nasabah.id_nasabah = transaksi.id_nasabahFK and nasabah.nama_nasabah = 'Maryati' and transaksi.jenis_transaksi = 'debit';
+-----+
| Jumlah Saldo |
+-----+
| 230000       |
+-----+
1 row in set (0.00 sec)
```

3.

```
MariaDB [perbankan]> select distinct kode_cabang, nama_cabang, count(jumlah) as 'Jumlah Transaksi' from cabang_bank C, transaksi T, rekening R where C.kode_cabang = R.kode_cabangFK and T.no_rekeningFK = R.no_rekening group by C.kode_cabang;
+-----+-----+-----+
| kode_cabang | nama_cabang          | Jumlah Transaksi |
+-----+-----+-----+
| BRUA        | Bank Rut Unit Ampel | 2                |
| BRUB        | Bank Rut Unit Boyolali | 2                |
| BRUBA       | Bank Rut Unit Bandung | 2                |
| BRUC        | Bank Rut Unit Cileduk | 2                |
| BRUG        | Bank Rut Unit Giri   | 2                |
| BRUJ        | Bank Rut Unit Jember | 2                |
| BRUL        | Bank Rut Unit Lampung | 2                |
| BRUP        | Bank Rut Unit Palembang | 2                |
| BRUS        | Bank Rut Unit Surakarta | 18               |
| BRUT        | Bank Rut Unit Tegal   | 4                |
| BURW        | Bank Rut Unit Wonogiri | 2                |
+-----+-----+-----+
11 rows in set (0.00 sec)
```

4.

```
MariaDB [perbankan]> select n.nama_nasabah, r.saldo as 'Saldo' from nasabah n, nasabah_has_rekening nhr, rekening r where n.id_nasabah = nhr.id_nasabahFK and r.no_rekening = nhr.no_rekeningFK and r.saldo between 500000 and 2000000;
+-----+-----+
| nama_nasabah | Saldo              |
+-----+-----+
| Sutopo       | 900000             |
| Maryati      | 750000             |
| Suparman     | 2000000            |
| Kartika Padmasari | 500000            |
| Kartika Padmasari | 1000000            |
| Budi Eko Prayoga | 1000000            |
| Canka Lokananta | 550000             |
+-----+-----+
7 rows in set (0.00 sec)
```

5.

```
MariaDB [perbankan]> select n.nama_nasabah as 'Nama Nasabah', T.tanggal as 'Tanggal', T.jumlah as 'Jumlah (Rp)' from nasabah n, transaksi T where n.id_nasabah = T.id_nasabahFK and T.jumlah >= 100000 order by T.jumlah desc;
```

Nama Nasabah	Tanggal	Jumlah (Rp)
Sutopo	2009-11-26 00:00:00	200000
Budi Eko Prayoga	0000-00-00 00:00:00	200000
Kartika Padmasari	2009-11-22 00:00:00	200000
Maryati	2009-11-21 00:00:00	200000
Canka Lokananta	2009-12-10 00:00:00	150000
Kartika Padmasari	2009-12-12 00:00:00	100000
Maryati	2009-12-12 00:00:00	100000
Sutopo	2009-11-22 00:00:00	100000
Budi Eko Prayoga	2009-12-01 00:00:00	100000
Budi Murtono	2009-12-01 00:00:00	100000
Suparman	2009-12-02 00:00:00	100000
Maryati	0000-00-00 00:00:00	100000

12 rows in set (0.00 sec)

Buat soal dan jawaban

1. Menampilkan jumlah total saldo yang dimiliki oleh Suparman

```
MariaDB [perbankan]> select sum(transaksi.jumlah) as 'Jumlah Saldo' from transaksi, nasabah where nasabah.id_nasabah = transaksi.id_nasabahFK and nasabah.nama_nasabah = 'Suparman' and transaksi.jenis_transaksi = 'kredit';
```

Jumlah Saldo
200000

1 row in set (0.01 sec)

2. Menampilkan kode cabang, nama cabang, dan jumlah saldo yang dimiliki dari cabang BRUB

```
MariaDB [perbankan]> select cabang_bank.kode_cabang as 'Kode Cabang', cabang_bank.nama_cabang as 'Nama Cabang', sum(saldo) as 'Jumlah Saldo' from rekening, cabang_bank, transaksi where cabang_bank.kode_cabang = 'BRUB';
```

Kode Cabang	Nama Cabang	Jumlah Saldo
BRUB	Bank Rut Unit Boyolali	821060000

1 row in set (1.49 sec)

3. Menampilkan nama nasabah dan jumlah saldo yang memiliki saldo Antara 350000 sampai 5000000

```
MariaDB [perbankan]> select n.nama_nasabah, r.saldo as 'Saldo' from nasabah n, nasabah_has_rekening nhr, rekening r where n.id_nasabah = nhr.id_nasabahFK and r.no_rekening = nhr.no_rekeningFK and r.saldo between 350000 and 500000;
```

nama_nasabah	Saldo
Kartika Padmasari	500000
Budi Eko Prayoga	350000

2 rows in set (0.42 sec)

4. Menampilkan kode cabang, rata-rata saldo, dan banyaknya record yang memiliki rata-rata saldo lebih dari 200000 dan diurutkan berdasarkan rata-rata saldo mulai dari yang terbesar

```
MariaDB [perbankan]> select kode_cabangFK as 'Kode Cabang', avg(saldo) as 'Rata-rata Saldo', count(saldo) as 'Jumlah Saldo' from rekening group by kode_cabangFK having avg(saldo) >= 200000 order by avg(saldo) desc;
```

Kode Cabang	Rata-rata Saldo	Jumlah Saldo
BRUB	2500000.0000	2
BRUM	1450000.0000	2
BRUS	1120000.0000	5
BRUBA	530000.0000	1
BRUY	402500.0000	2
BRUL	300000.0000	1
BRUK	225000.0000	2
BRUT	218250.0000	2

8 rows in set (0.00 sec)

- Menampilkan nama_nasabah. rata2.saldo dari masing2 nasabah dimana memiliki kode cabang 'BRUL'

```

MariaDB [perbankan]> select distinct nasabah.nama_nasabah as 'Nama Nasabah', avg(rekening.saldo) as 'Rata-rata Saldo' from transaksi,nasabah,rekening where transaksi.id_nasabahFK = nasabah.id_nasabah and transaksi.no_rekeningFK = rekening.no_rekening and rekening.kode_cabangFK = 'BRUL' group by nama_nasabah;
+-----+-----+
| Nama Nasabah | Rata-rata Saldo |
+-----+-----+
| Dino         | 300000.0000     |
+-----+-----+
1 row in set (0.10 sec)

```

Soal dari Asdos

- Tampilkan nama_nasabah, tanggal_transaksi dan jumlah dari jenis_transaksi 'kredit' dimana melakukan transaksi diatas 50.000, diurutkan berdasarkan nama_nasabah (alfabet a-z)

```

MariaDB [perbankan]> select distinct nasabah.nama_nasabah, transaksi.tanggal,transaksi.jumlah from transaksi,nasabah where transaksi.id_nasabahFK = nasabah.id_nasabah and transaksi.jenis_transaksi = 'kredit' group by nama_nasabah, jenis_transaksi having jumlah>50000 order by nama_nasabah;
+-----+-----+-----+
| nama_nasabah | tanggal          | jumlah |
+-----+-----+-----+
| Canka Lokananta | 2009-12-10 00:00:00 | 150000 |
| Dino           | 2009-12-10 00:00:00 | 700000 |
| Maryati        | 2009-11-21 00:00:00 | 200000 |
| Sutopo         | 2009-11-26 00:00:00 | 200000 |
+-----+-----+-----+
4 rows in set (0.33 sec)

```

- Tampilkan nama_nasabah, cabang_bank(dalam dari berasal) dan total jumlah.transaksi(dalam total) dari masing2 nama_nasabah

```

MariaDB [perbankan]> select distinct nasabah.nama_nasabah as 'Nama Nasabah',cabang_bank.nama_cabang as 'Nama Cabang',sum(transaksi.jumlah) as 'Jumlah' from transaksi,nasabah,rekening,cabang_bank where transaksi.id_nasabahFK = nasabah.id_nasabah and transaksi.no_rekeningFK = rekening.no_rekening and rekening.kode_cabangFK = cabang_bank.kode_cabang group by nama_nasabah;
+-----+-----+-----+
| Nama Nasabah | Nama Cabang      | Jumlah |
+-----+-----+-----+
| Budi Eko Prayoga | Bank Rut Unit Surakarta | 370000 |
| Budi Murtono    | Bank Rut Unit Boyolali  | 100000 |
| Dīno            | Bank Rut Unit Lampung   | 700000 |
| Kartika Padmasari | Bank Rut Unit Surakarta | 390000 |
| Maryati         | Bank Rut Unit Surakarta | 530000 |
| Suparman        | Bank Rut Unit Surakarta | 100000 |
+-----+-----+-----+
6 rows in set (0.10 sec)

```

- Tampilkan nama_nasabah. rata2.saldo dari masing2 nasabah dimana memiliki kode cabang 'BRUY'

```

MariaDB [perbankan]> select distinct nasabah.nama_nasabah as 'Nama Nasabah', avg(rekening.saldo) as 'Rata-rata Saldo' from transaksi,nasabah,rekening where transaksi.id_nasabahFK = nasabah.id_nasabah and transaksi.no_rekeningFK = rekening.no_rekening and rekening.kode_cabangFK = 'BRUY' group by nama_nasabah;
+-----+-----+
| Nama Nasabah | Rata-rata Saldo |
+-----+-----+
| Canka Lokananta | 550000.0000     |
+-----+-----+
1 row in set (0.00 sec)

```

- Tampilkan id_nasabah, nama_cabang, jumlah saldo (dalam sisa saldo) dari masing2 id_nasabah dikurangi 75.000 untuk pembayaran SPP

```

MariaDB [perbankan]> select nasabah.id_nasabah,cabang_bank.nama_cabang, sum(saldo) -75000 from rekening,transaksi,nasabah, cabang_bank where transaksi.id_nasabahFK = nasabah.id_nasabah and transaksi.no_rekeningFK = rekening.no_rekening and rekening.kode_cabangFK = cabang_bank.kode_cabang group by nama_nasabah;
+-----+-----+-----+
| id_nasabah | nama_cabang | sum(saldo) -75000 |
+-----+-----+-----+
| 5 | Bank Rut Unit Surakarta | 2325000 |
| 10 | Bank Rut Unit Boyolali | 4925000 |
| 20 | Bank Rut Unit Lampung | 225000 |
| 4 | Bank Rut Unit Surakarta | 3425000 |
| 2 | Bank Rut Unit Surakarta | 4425000 |
| 3 | Bank Rut Unit Surakarta | 5925000 |
+-----+-----+-----+
6 rows in set (0.08 sec)

```

5. Tampilkan nama_nasabah, no_Rek, cabang_bank(dalam Asal) dan jumlah transaksi untuk semua transaksi dimana memiliki No_Rek '104' dan diurutkan berdasarkan jumlah_transaksi dari terkecil - terbesar

```

MariaDB [perbankan]> select distinct nasabah.nama_nasabah,rekening.no_rekening,cabang_bank.nama_cabang, sum(transaksi.jumlah) as 'Jumlah' from transaksi, nasabah,rekening,cabang_bank where transaksi.id_nasabahFK = nasabah.id_nasabah and transaksi.no_rekeningFK = rekening.no_rekening and rekening.kode_cabangFK = cabang_bank.kode_cabang and no_rekening = 103 group by nama_nasabah order by sum(jumlah);
+-----+-----+-----+-----+
| nama_nasabah | no_rekening | nama_cabang | Jumlah |
+-----+-----+-----+-----+
| Maryati | 103 | Bank Rut Unit Surakarta | 530000 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

```