

**DATABASE SYSTEMS PRACTICUM**  
**PRACTICUM 8**



**By:**

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**2020**

## 1. Activity

```
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
2009-11-15 00:00:00	kredit	150000
2009-11-15 00:00:00	kredit	200000
2009-11-19 00:00:00	debit	50000
2009-11-22 00:00:00	kredit	100000
2009-12-01 00:00:00	debit	50000
2009-12-06 00:00:00	debit	20000

6 rows in set (0.00 sec)

```
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	Canka Lokananta	kredit	150000
2009-11-15 00:00:00	Sutopo	kredit	200000
2009-11-16 00:00:00	Budi Eko Prayogo	debit	20000
2009-11-18 00:00:00	Suparman	kredit	50000
2009-11-19 00:00:00	Kartika Padmasari	debit	100000
2009-11-19 00:00:00	Maryati	debit	100000
2009-11-19 00:00:00	Sutopo	debit	50000
2009-11-20 00:00:00	Kartika Padmasari	kredit	200000

8 rows in set (0.00 sec)

```
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	2080000
kredit	2400000

2 rows in set (0.00 sec)

```
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;
```

Jenis Transaksi	Transaksi Terbesar	Transaksi Terkecil
debit	200000	20000
kredit	200000	20000

2 rows in set (0.00 sec)

```
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)

```
MariaDB [perbankan]>
```

## 2. Assignment

```
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah AS "Rp", count(jumlah) FROM
transaksi, nasabah WHERE nasabah.id_nasabah = transaksi.id_nasabahFK AND nama_nasabah like "%Kartika Padmasari" GROUP BY jenis_transaksi;
```

jenis_transaksi	Rp	count(jumlah)
debit	100000	2
kredit	20000	3

2 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT SUM(saldo) from rekening, nasabah, 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";
```

SUM(saldo)
750000

1 row in set (0.00 sec)

```
MariaDB [perbankan]> SELECT COUNT(no_transaksi) AS "Jumlah Transaksi", nama_cabang FROM transaksi, rekening, cabang_bank WHERE transaksi.no_rekeningFK = rekening.no_rekening AND cabang_bank.kode_cabang = rekening.kode_cabangFK GROUP BY nama_cabang;
```

Jumlah Transaksi	nama_cabang
3	Bank Rut Unit Balikpapan
2	Bank Rut Unit Berau
2	Bank Rut Unit Boyolali
3	Bank Rut Unit Karanganyar
1	Bank Rut Unit Kartasura
8	Bank Rut Unit Magelang
1	Bank Rut Unit Pontianak
2	Bank Rut Unit Samarinda
2	Bank Rut Unit Sukoharjo
18	Bank Rut Unit Surakarta
1	Bank Rut Unit Tanjung Selor
4	Bank Rut Unit Tarakan
3	Bank Rut Unit Yogyakarta

13 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT nama_nasabah, SUM(saldo) FROM rekening, nasabah, nasabah_has_rekening WHERE nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK AND rekening.no_rekening = nasabah_has_rekening.no_rekeningFK AND saldo BETWEEN 500000 AND 2000000 GROUP BY rekening.no_rekening ORDER BY rekening.no_rekening;
```

nama_nasabah	SUM(saldo)
Kartika Padmasari	500000
Maryati	750000
Sutopo	900000
Suparman	2000000
Kartika Padmasari	2000000
Canka Lokananta	550000
Muliana	2000000
Putri	500000
Puput	900000
Danindya	2000000

10 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT nama_nasabah, tanggal, jumlah AS "Rp" FROM nasabah,
transaksi WHERE nasabah.id_nasabah = transaksi.id_nasabahFK AND transaksi.jumlah
> 100000 ORDER BY transaksi.jumlah DESC;
```

nama_nasabah	tanggal	Rp
Sutopo	2009-11-15 00:00:00	200000
Danindya	2009-12-19 00:00:00	200000
Kartika Padmasari	2009-11-20 00:00:00	200000
Maryati	2009-11-28 00:00:00	200000
Budi Eko Prayogo	2009-12-05 00:00:00	200000
Danindya	2009-12-08 00:00:00	200000
Khatulistyawara	2009-12-15 00:00:00	200000
Putri	2009-12-16 00:00:00	175000
Puput	2009-12-20 00:00:00	150000
Khatulistyawara	2009-12-13 00:00:00	150000
Canka Lokananta	2009-11-15 00:00:00	150000
Budi Martono	2009-12-18 00:00:00	130000
Puput	2009-12-14 00:00:00	125000
Puput	2009-12-14 00:00:00	125000

14 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT transaksi.tanggal, transaksi.jenis_transaksi, transa
ksi.jumlah FROM nasabah, transaksi WHERE nasabah.id_nasabah=transaksi.id_nasabah
FK AND nasabah.nama_nasabah IN ('Sutopo','Canka Lokananta') ORDER BY transaksi.t
anggal;
```

tanggal	jenis_transaksi	jumlah
2009-11-15 00:00:00	kredit	150000
2009-11-15 00:00:00	kredit	200000
2009-11-19 00:00:00	debit	50000
2009-11-22 00:00:00	kredit	100000
2009-12-01 00:00:00	debit	50000
2009-12-06 00:00:00	debit	20000

6 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT transaksi.tanggal, nasabah.nama_nasabah, transaksi.j
enis_transaksi, transaksi.jumlah FROM nasabah, transaksi WHERE transaksi.tanggal
BETWEEN '2009-11-15' AND '2009-11-20' AND nasabah.id_nasabah = transaksi.id_nas
abahFK ORDER BY transaksi.tanggal, nasabah.nama_nasabah;
```

tanggal	nama_nasabah	jenis_transaksi	jumlah
2009-11-15 00:00:00	Canka Lokananta	kredit	150000
2009-11-15 00:00:00	Sutopo	kredit	200000
2009-11-16 00:00:00	Budi Eko Prayogo	debit	20000
2009-11-18 00:00:00	Suparman	kredit	50000
2009-11-19 00:00:00	Kartika Padmasari	debit	100000
2009-11-19 00:00:00	Maryati	debit	100000
2009-11-19 00:00:00	Sutopo	debit	50000
2009-11-20 00:00:00	Kartika Padmasari	kredit	200000

8 rows in set (0.00 sec)

```
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	2080000
kredit	2400000

2 rows in set (0.00 sec)

```
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;
```

Jenis Transaksi	Transaksi Terbesar	Transaksi Terkecil
debit	200000	20000
kredit	200000	20000

2 rows in set (0.00 sec)

```
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)

```
MariaDB [perbankan]>
```

```
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah AS "Rp", count(jumlah) FROM
transaksi, nasabah WHERE nasabah.id_nasabah = transaksi.id_nasabahFK AND nama_nasabah
like "%Kartika Padmasari" GROUP BY jenis_transaksi;
```

jenis_transaksi	Rp	count(jumlah)
debit	100000	2
kredit	20000	3

2 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT SUM(saldo) from rekening, nasabah, 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";
```

SUM(saldo)
750000

1 row in set (0.00 sec)

```
MariaDB [perbankan]> SELECT COUNT(no_transaksi) AS "Jumlah Transaksi", nama_cabang
FROM transaksi, rekening, cabang_bank WHERE transaksi.no_rekeningFK = rekening
.no_rekening AND cabang_bank.kode_cabang = rekening.kode_cabangFK GROUP BY nama_cabang;
```

Jumlah Transaksi	nama_cabang
3	Bank Rut Unit Balikpapan
2	Bank Rut Unit Berau
2	Bank Rut Unit Boyolali
3	Bank Rut Unit Karanganyar
1	Bank Rut Unit Kartasura
8	Bank Rut Unit Magelang
1	Bank Rut Unit Pontianak
2	Bank Rut Unit Samarinda
2	Bank Rut Unit Sukoharjo
18	Bank Rut Unit Surakarta
1	Bank Rut Unit Tanjung Selor
4	Bank Rut Unit Tarakan
3	Bank Rut Unit Yogyakarta

13 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT nama_nasabah, SUM(saldo) FROM rekening, nasabah, nasabah_has_rekening
WHERE nasabah.id_nasabah = nasabah_has_rekening.id_nasabahFK AND rekening.no_rekening=
nasabah_has_rekening.no_rekeningFK AND saldo BETWEEN 500000 AND 2000000 GROUP BY rekening.no_rekening
ORDER BY rekening.no_rekening;
```

nama_nasabah	SUM(saldo)
Kartika Padmasari	500000
Maryati	750000
Sutopo	900000
Suparman	2000000
Kartika Padmasari	2000000
Canka Lokananta	550000
Muliana	2000000
Putri	500000
Puput	900000
Danindya	2000000

10 rows in set (0.00 sec)

