

PRAKTIKUM SISTEM BASIS DATA

MODUL 8

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5)

```
MariaDB [perbankan]> SELECT transaksi.tanggal,transaksi.jenis_transaksi,transaksi.jumlah
-> FROM nasabah,transaksi WHERE nasabah.id_nasabah = transaksi.id_nasabah AND nasabah.
-> nama_nasabah IN ('Sutopo','Canka Lokananta') ORDER BY transaksi.tanggal
-> ;
```

tanggal	jenis_transaksi	jumlah
2009-11-15 00:00:00	kredit	200000
2009-11-15 00:00:00	kredit	150000
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 (0.263 sec)

6)

```
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_nasabah 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 (0.043 sec)

7)

```
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	930000
kredit	1420000

2 rows in set (0.060 sec)

8)

```
MariaDB [perbankan]> SELECT transaksi.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	100000	20000
kredit	200000	20000

2 rows in set (0.042 sec)

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 (0.002 sec)

Tugas

- 1) SELECT transaksi.jenis_transaksi,SUM(transaksi.jumlah) AS "Jumlah (Rp)",COUNT(transaksi.jumlah) AS "Total Transaksi" FROM nasabah,transaksi WHERE nasabah.id_nasabah = transaksi.id_nasabah AND nasabah.nama_nasabah = 'Kartika Padmasari';

```
Kartika Padmasari'' at line 3
MariaDB [perbankan]> SELECT transaksi.jenis_transaksi,SUM(transaksi.jumlah) AS "Jumlah (Rp)",
-> COUNT(transaksi.jumlah) AS "Total Transaksi" FROM nasabah,transaksi WHERE nasabah.id_nasabah
-> = transaksi.id_nasabah AND nasabah.nama_nasabah = 'Kartika Padmasari';
```

jenis_transaksi	Jumlah (Rp)	Total Transaksi
kredit	390000	5

1 row in set (0.002 sec)

- 2) SELECT nama_nasabah,SUM(saldo) AS "Jumlah Saldo (Rp)"
FROM nasabah JOIN transaksi
ON nasabah.id_nasabah = transaksi.id_nasabah
JOIN rekening
USING (no_rekening)
WHERE nama_nasabah = 'Maryati';

```
MariaDB [perbankan]> SELECT nama_nasabah,SUM(saldo) AS "Jumlah Saldo (Rp)"
-> FROM nasabah JOIN transaksi
-> ON nasabah.id_nasabah = transaksi.id_nasabah
-> JOIN rekening
-> USING(no_rekening)
-> WHERE nama_nasabah = 'Maryati';
```

nama_nasabah	Jumlah Saldo (Rp)
Maryati	4500000

```
1 row in set (0.081 sec)
```

3) SELECT kode_cabang,COUNT(no_rekening) AS "Jumlah Transaksi"
FROM rekening JOIN transaksi
USING (no_rekening)
GROUP BY kode_cabang
ORDER BY kode_cabang;

```
MariaDB [perbankan]> SELECT kode_cabang,COUNT(no_rekening) AS "Jumlah Transaksi"
-> FROM rekening JOIN transaksi
-> USING(no_rekening)
-> GROUP BY (kode_cabang)
-> ORDER BY (kode_cabang);
```

kode_cabang	Jumlah Transaksi
BRUB	2
BRUM	8
BRUS	18
BRUY	2

```
4 rows in set (0.003 sec)
```

4) SELECT nama_nasabah,SUM(saldo) AS "Jumlah Saldo (Rp)"
FROM nasabah NATURAL JOIN transaksi
NATURAL JOIN rekening
GROUP BY nama_nasabah
HAVING SUM(saldo) BETWEEN 500000 AND 2000000
ORDER BY nama_nasabah;

```
MariaDB [perbankan]> SELECT nama_nasabah,SUM(saldo) AS "Jumlah Saldo (Rp)"
-> FROM nasabah NATURAL JOIN transaksi
-> NATURAL JOIN rekening
-> GROUP BY nama_nasabah
-> HAVING SUM(saldo) BETWEEN 500000 AND 2000000
-> ORDER BY nama_nasabah;
```

nama_nasabah	Jumlah Saldo (Rp)
Canka Lokananta	1100000

```
1 row in set (1.037 sec)
```

- 5) SELECT nama_nasabah,tanggal,jumlah FROM nasabah NATURAL JOIN transaksi WHERE jumlah > 100000 GROUP BY jumlah ORDER BY jumlah;

```
MariaDB [perbankan]> SELECT nama_nasabah,tanggal,jumlah FROM nasabah NATURAL JOIN transaksi WHERE jumlah > 100000 GROUP BY jumlah ORDER BY jumlah;
```

nama_nasabah	tanggal	jumlah
Canka Lokananta	2009-11-15 00:00:00	150000
Sutopo	2009-11-15 00:00:00	200000

2 rows in set (0.003 sec)

- 6) Nama nasabah yang jumlah transaksinya di atas 150000

SELECT nama_nasabah,SUM(jumlah) AS "Jumlah Transaksi" FROM nasabah NATURAL JOIN transaksi GROUP BY nama_nasabah HAVING SUM(jumlah) > 150000 GROUP BY nama_nasabah ORDER BY nama_nasabah;

```
MariaDB [perbankan]> SELECT nama_nasabah,SUM(jumlah) AS "Jumlah Transaksi" FROM nasabah NATURAL JOIN transaksi GROUP BY nama_nasabah HAVING SUM(jumlah) > 150000 ORDER BY nama_nasabah;
```

nama_nasabah	Jumlah Transaksi
Budi Eko Prayogo	320000
Canka Lokananta	170000
Kartika Padmasari	390000
Maryati	530000
Suparman	340000
Sutopo	400000

6 rows in set (0.002 sec)

- 7) Nama nasabah yang jumlah transaksi nya paling besar antara tgl 19 Nov – 22 Nov 2009

SELECT nama_nasabah,SUM(jumlah) FROM nasabah NATURAL JOIN transaksi WHERE tanggal BETWEEN '2009-11-19' AND '2009-11-22' GROUP BY nama_nasabah HAVING (SUM(jumlah) ORDER BY SUM(jumlah);

```
MariaDB [perbankan]> SELECT nama_nasabah,SUM(jumlah) FROM nasabah NATURAL JOIN transaksi WHERE tanggal BETWEEN '2009-11-19' AND '2009-11-22' GROUP BY nama_nasabah HAVING SUM(jumlah) ORDER BY SUM(jumlah);
```

nama_nasabah	SUM(jumlah)
Suparman	40000
Sutopo	150000
Maryati	150000
Kartika Padmasari	320000

4 rows in set (0.003 sec)

- 8) Nasabah yang jumlah saldonya lebih dari 3000000

SELECT nama_nasabah,SUM(saldo) AS "Jumlah Saldo (Rp)"
FROM nasabah NATURAL JOIN transaksi
NATURAL JOIN rekening
GROUP BY nama_nasabah
HAVING SUM(saldo) > 3000000
ORDER BY nama_nasabah;


```

MariaDB [perbankan]> SELECT nama_nasabah,SUM(saldo) AS "Jumlah Saldo (Rp)"
-> FROM nasabah NATURAL JOIN transaksi
-> NATURAL JOIN rekening
-> GROUP BY nama_nasabah
-> HAVING SUM(saldo) >3000000
-> ORDER BY nama_nasabah;

```

nama_nasabah	Jumlah Saldo (Rp)
Budi Murtono	5000000
Kartika Padmasari	3500000
Maryati	4500000
Suparman	14000000
Sutopo	3600000

```

rows in set (0.002 sec)

```

9) Transaksi terbesar Sutopo

SELECT nama_nasabah, MAX(jumlah) AS "Transaksi Terbesar (Rp)" FROM nasabah NATURAL JOIN transaksi WHERE nama_nasabah = 'Sutopo';

```

MariaDB [perbankan]> SELECT nama_nasabah, MAX(jumlah) AS "Transaksi Terbesar (Rp)" FROM nasabah NATURAL JOIN transaksi W
HERE nama_nasabah = 'Sutopo';

```

nama_nasabah	Transaksi Terbesar (Rp)
Sutopo	200000

```

1 row in set (0.002 sec)

```

10) Tampilkan Nama Nasabah yang transaksi nya terkecil diantara tanggal 13 sampai 16

SELECT nama_nasabah, MIN(jumlah) AS "Transaksi Terkecil (Rp)" FROM nasabah NATURAL JOIN transaksi WHERE tanggal BETWEEN '2009-11-13' AND '2009-11-16';

```

MariaDB [perbankan]> SELECT nama_nasabah, MIN(jumlah) AS "Transaksi Terkecil (Rp)" FROM nasabah NATURAL JOIN transaksi
-> WHERE tanggal BETWEEN '2009-11-13' AND '2009-11-16';

```

nama_nasabah	Transaksi Terkecil (Rp)
Suparman	20000

```

1 row in set (0.002 sec)

```

11) SELECT DISTINCT nama_nasabah,tanggal, COUNT(jenis_transaksi) FROM nasabah NATURAL JOIN transaksi WHERE jumlah > 50000 AND jenis_transaksi = 'kredit' GROUP BY nama_nasabah ORDER BY nama_nasabah;

```

MariaDB [perbankan]> SELECT DISTINCT nama_nasabah,tanggal, COUNT(jenis_transaksi) FROM nasabah NATURAL JOIN transaksi
WHERE jumlah > 50000 AND jenis_transaksi = 'kredit' GROUP BY nama_nasabah ORDER BY nama_nasabah;

```

nama_nasabah	tanggal	COUNT(jenis_transaksi)
Budi Eko Prayogo	2009-12-05 00:00:00	1
Canka Lokananta	2009-11-15 00:00:00	1
Kartika Padmasari	2009-11-20 00:00:00	1
Maryati	2009-11-28 00:00:00	2
Suparman	2009-11-28 00:00:00	1
Sutopo	2009-11-15 00:00:00	2

```

6 rows in set (0.002 sec)

```

- 12) SELECT DISTINCT nama_nasabah,kode_cabang AS "dari berasal",SUM(jumlah) AS "total" FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening GROUP BY nama_nasabah HAVING SUM(jumlah) ORDER BY nama_nasabah;

```
MariaDB [perbankan]> SELECT DISTINCT nama_nasabah,kode_cabang AS "dari berasal",SUM(jumlah) AS "total" FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening GROUP BY nama_nasabah HAVING SUM(jumlah) ORDER BY nama_nasabah;
```

nama_nasabah	dari berasal	total
Budi Eko Prayogo	BRUS	320000
Budi Murtono	BRUB	100000
Canka Lokananta	BRUY	170000
Kartika Padmasari	BRUS	390000
Maryati	BRUS	530000
Suparman	BRUM	340000
Sutopo	BRUM	400000

- 13) SELECT DISTINCT nama_nasabah,AVG(saldo) FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening WHERE kode_cabang = 'BRUY' GROUP BY nama_nasabah HAVING AVG(saldo) ORDER BY nama_nasabah;

```
MariaDB [perbankan]> SELECT DISTINCT nama_nasabah,AVG(saldo) FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening WHERE kode_cabang = 'BRUY' GROUP BY nama_nasabah HAVING AVG(saldo) ORDER BY nama_nasabah;
```

nama_nasabah	AVG(saldo)
Canka Lokananta	550000.0000

- 14) SELECT DISTINCT id_nasabah,nama_cabang,saldo-75000 FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening NATURAL JOIN cabang_bank GROUP BY id_nasabah ORDER BY id_nasabah;

```
MariaDB [perbankan]> SELECT DISTINCT id_nasabah,nama_cabang,saldo-75000 FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening NATURAL JOIN cabang_bank GROUP BY id_nasabah ORDER BY id_nasabah;
```

id_nasabah	nama_cabang	saldo-75000
2	Bank Rut Unit Surakarta	675000
3	Bank Rut Unit Surakarta	2925000
4	Bank Rut Unit Surakarta	425000
5	Bank Rut Unit Surakarta	925000
9	Bank Rut Unit Yogyakarta	475000
10	Bank Rut Unit Boyolali	4925000

rows in set (0.003 sec)

- 15) SELECT DISTINCT nama_nasabah,no_rekening,kode_cabang AS "Asal",jumlah FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening WHERE no_rekening = 104 ORDER BY jumlah;

```
MariaDB [perbankan]> SELECT DISTINCT nama_nasabah,no_rekening,kode_cabang AS "Asal",jumlah FROM nasabah NATURAL JOIN transaksi NATURAL JOIN rekening WHERE no_rekening = 104 ORDER BY jumlah;
```

nama_nasabah	no_rekening	Asal	jumlah
Sutopo	104	BRUM	50000
Sutopo	104	BRUM	100000
Sutopo	104	BRUM	200000