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Prak Sistem Basis Data

Modul 10 SubQuery

LATIHAN

1. Tampilkan detail data nasabahyang pernah melakukan transaksi kredit

```
MariaDB [perbankan]> SELECT*FROM nasabah WHERE nasabah.id_nasabah IN (SELECT DISTINCT transaksi.id_nasabahFK from transaksi WHERE jenis_transaksi='kredit');
Empty set (0.714 sec)
```

2. Tampilkan detail nasabah yang tidak pernah melakukan segala jenis transaksi

```
MariaDB [perbankan]> SELECT*FROM nasabah WHERE nasabah.id_nasabah NOT IN (SELECT DISTINCT transaksi.id_nasabahFK from transaksi);
+-----------+------------------+-----------------------------------+------------+
| id_nasabah | nama_perbankan  | alamat_nasabah                    | ttl_nasabah |
+-----------+------------------+-----------------------------------+------------+
|         1 | Sutopo          | Jln.Jenderal Sudirman No.12 Semarang | 1980-08-31 |
|         2 | Maryati         | Jln.MT Haryono No.31 Pati          | 1983-09-13 |
|         3 | Suparman        | Jln. Hasanudin No.81 Makassar      | 1979-12-23 |
|         4 | Kartika Padmasari | Jln.Manggis No.15 Klaten         | 1989-02-13 |
|         5 | Budi Eko Prayogo | Jln.Kantil No.30 Sragen           | 1991-04-10 |
|         6 | Satria Eka Jaya | Jln Slamet Riyadi No.45 Solo       | 1992-08-11 |
|         8 | Sari Murti      | Jln.Pangandaran No.11 Bandung      | 1994-10-04 |
|         9 | Canka Lokananta | Jln.Tidar No.86 Magelang           | 1998-05-31 |
|        10 | Budi Martono    | Jln.Merak No.22 Klaten            | 1993-04-20 |
+-----------+------------------+-----------------------------------+------------+
9 rows in set (0.107 sec)
```

3. Tampilkan cabang bank yang memiliki rata-rata saldo paling besar untuk seluruh rekening dalam cabang tersebut

```
MariaDB [perbankan]> SELECT cabang_bank.kode_cabang, cabang_bank.nama_cabang, AVG(rekening.saldo) as rata2 FROM cabang_bank, rekening WHERE cabang_bank.kode_cabang=reke
ning.kode_cabangFK GROUP BY cabang_bank.kode_cabang HAVING rata2 >= ALL(select AVG(saldo) FROM rekening GROUP BY kode_cabangFK);
+-------------+----------------------+------------+
| kode_cabang | nama_cabang          | rata2      |
+-------------+----------------------+------------+
| BRUB        | Bank Rut Unit Boyolali | 1850000.0000 |
+-------------+----------------------+------------+
1 row in set (0.114 sec)
```

4. Tampilkan data transaksi yang melibatkan jumlah uang lebih besar dari rata-rata nilai keseluruhan transaksi

```
MariaDB [perbankan]> SELECT*FROM transaksi WHERE jumlah>(SELECT AVG(jumlah) FROM transaksi);
+--------------+--------------+---------------+----------------+---------------------+---------+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah  |
+--------------+--------------+---------------+----------------+---------------------+---------+
|            6 |          104 |             1 | kredit         | 2009-11-15 00:00:00 |  200000 |
|           13 |          107 |             4 | kredit         | 2009-11-20 00:00:00 |  200000 |
|           16 |          101 |             4 | kredit         | 2009-11-22 00:00:00 |  200000 |
|           21 |          103 |             2 | kredit         | 2009-11-28 00:00:00 | 2500000 |
|           23 |          102 |             5 | debit          | 2009-11-30 00:00:00 |  200000 |
|           28 |          102 |             5 | kredit         | 2009-12-05 00:00:00 |  200000 |
+--------------+--------------+---------------+----------------+---------------------+---------+
6 rows in set (0.032 sec)
```

TUGAS

1. Menampilkan jumlah transaksi terbesar

```
MariaDB [perbankan]> SELECT DISTINCT jumlah FROM transaksi WHERE jumlah >= all (SELECT MAX(jumlah) from transaksi);
+---------+
| jumlah  |
+---------+
| 2500000 |
+---------+
1 row in set (0.169 sec)
```

2. Menampilkan jumlah transaksi terkecil

```
MariaDB [perbankan]> SELECT DISTINCT jumlah FROM transaksi WHERE jumlah <= all (SELECT MIN(jumlah) from transaksi);
+--------+
| jumlah |
+--------+
|  20000 |
+--------+
1 row in set (0.001 sec)
```

3. Menampilkan nasabah dengan jumlah transaksi terbesar

```
MariaDB [perbankan]> SELECT DISTINCT nasabah.nama_perbankan, transaksi.jumlah FROM transaksi, nasabah WHERE jumlah >= al
l (SELECT MAX(jumlah) from transaksi);
+-------------------+---------+
| nama_perbankan    | jumlah  |
+-------------------+---------+
| Sutopo            | 2500000 |
| Maryati           | 2500000 |
| Suparman          | 2500000 |
| Kartika Padmasari | 2500000 |
| Budi Eko Prayogo  | 2500000 |
| Satria Eka Jaya   | 2500000 |
| Sari Murti        | 2500000 |
| Canka Lokananta   | 2500000 |
| Budi Martono      | 2500000 |
+-------------------+---------+
9 rows in set (0.055 sec)
```

4. Menampilkan cabang yang tidak memiliki rekening

```
MariaDB [perbankan]> SELECT DISTINCT cabang_bank.nama_cabang FROM cabang_bank WHERE cabang_bank.kode_cabang not in (SELE
CT DISTINCT rekening.kode_cabangFK FROM rekening);
+-----------------------+
| nama_cabang           |
+-----------------------+
| Bank Rut Unit Wonogiri |
+-----------------------+
1 row in set (0.147 sec)
```

5. Menampilkan nomor rekening dengan saldo di atas rata2

```
MariaDB [perbankan]> SELECT rekening.no_rekening, rekening.saldo FROM rekening WHERE saldo > (SELECT AVG(saldo) from rek
ening);
+-------------+---------+
| no_rekening | saldo   |
+-------------+---------+
|         105 | 2000000 |
|         106 | 3000000 |
|         108 | 5000000 |
|         113 | 2550000 |
+-------------+---------+
4 rows in set (0.037 sec)
```

6. Buat 5 soal sesuai versi anda

   a. Menampilkan nasabah dengan jumlah saldo terbesar.

```
MariaDB [perbankan]> SELECT DISTINCT nasabah.nama_perbankan, rekening.saldo FROM rekening, nasabah WHERE saldo >= all (S
ELECT MAX(saldo) FROM rekening);
+--------------------+---------+
| nama_perbankan     | saldo   |
+--------------------+---------+
| Sutopo             | 5000000 |
| Maryati            | 5000000 |
| Suparman           | 5000000 |
| Kartika Padmasari  | 5000000 |
| Budi Eko Prayogo   | 5000000 |
| Satria Eka Jaya    | 5000000 |
| Sari Murti         | 5000000 |
| Canka Lokananta    | 5000000 |
| Budi Martono       | 5000000 |
+--------------------+---------+
9 rows in set (0.001 sec)
```

b. Menampilkan nasabah dengan jumlah saldo terkecil.

```
MariaDB [perbankan]> SELECT DISTINCT nasabah.nama_perbankan, rekening.saldo FROM rekening, nasabah WHERE saldo <= all(SE
LECT min(saldo) FROM rekening);
+--------------------+-------+
| nama_perbankan     | saldo |
+--------------------+-------+
| Sutopo             | 50000 |
| Maryati            | 50000 |
| Suparman           | 50000 |
| Kartika Padmasari  | 50000 |
| Budi Eko Prayogo   | 50000 |
| Satria Eka Jaya    | 50000 |
| Sari Murti         | 50000 |
| Canka Lokananta    | 50000 |
| Budi Martono       | 50000 |
+--------------------+-------+
9 rows in set (0.001 sec)
```

c. Menampilkan saldo nasabah dengan jumlah rata2 terbesar.

```
MariaDB [perbankan]> SELECT nasabah.nama_perbankan, rekening.saldo FROM rekening, nasabah WHERE saldo > (select AVG(sald
o) FROM rekening);
+--------------------+---------+
| nama_perbankan     | saldo   |
+--------------------+---------+
| Sutopo             | 2000000 |
| Maryati            | 2000000 |
| Suparman           | 2000000 |
| Kartika Padmasari  | 2000000 |
| Budi Eko Prayogo   | 2000000 |
| Satria Eka Jaya    | 2000000 |
| Sari Murti         | 2000000 |
| Canka Lokananta    | 2000000 |
| Budi Martono       | 2000000 |
| Sutopo             | 3000000 |
| Maryati            | 3000000 |
| Suparman           | 3000000 |
| Kartika Padmasari  | 3000000 |
| Budi Eko Prayogo   | 3000000 |
| Satria Eka Jaya    | 3000000 |
| Sari Murti         | 3000000 |
| Canka Lokananta    | 3000000 |
| Budi Martono       | 3000000 |
| Sutopo             | 5000000 |
| Maryati            | 5000000 |
| Suparman           | 5000000 |
| Kartika Padmasari  | 5000000 |
| Budi Eko Prayogo   | 5000000 |
| Satria Eka Jaya    | 5000000 |
| Sari Murti         | 5000000 |
| Canka Lokananta    | 5000000 |
| Budi Martono       | 5000000 |
| Sutopo             | 2550000 |
| Maryati            | 2550000 |
| Suparman           | 2550000 |
| Kartika Padmasari  | 2550000 |
| Budi Eko Prayogo   | 2550000 |
| Satria Eka Jaya    | 2550000 |
| Sari Murti         | 2550000 |
| Canka Lokananta    | 2550000 |
| Budi Martono       | 2550000 |
```

d. Menampilkan saldo nasabah dengan jumlah rata2 terkecil.

```
MariaDB [perbankan]> SELECT nasabah.nama_perbankan, rekening.saldo FROM rekening, nasabah WHERE saldo < (select AVG(saldo) FROM rekening);
+-------------------+--------+
| nama_perbankan    | saldo  |
+-------------------+--------+
| Sutopo            | 500000 |
| Maryati           | 500000 |
| Suparman          | 500000 |
| Kartika Padmasari | 500000 |
| Budi Eko Prayogo  | 500000 |
| Satria Eka Jaya   | 500000 |
| Sari Murti        | 500000 |
| Canka Lokananta   | 500000 |
| Budi Martono      | 500000 |
| Sutopo            | 350000 |
| Maryati           | 350000 |
| Suparman          | 350000 |
| Kartika Padmasari | 350000 |
| Budi Eko Prayogo  | 350000 |
| Satria Eka Jaya   | 350000 |
```

```
| Canka Lokananta   |  350000 |
| Budi Martono      |  350000 |
| Sutopo            |  750000 |
| Maryati           |  750000 |
| Suparman          |  750000 |
| Kartika Padmasari |  750000 |
| Budi Eko Prayogo  |  750000 |
| Satria Eka Jaya   |  750000 |
| Sari Murti        |  750000 |
| Canka Lokananta   |  750000 |
| Budi Martono      |  750000 |
| Sutopo            |  900000 |
| Maryati           |  900000 |
| Suparman          |  900000 |
| Kartika Padmasari |  900000 |
| Budi Eko Prayogo  |  900000 |
| Satria Eka Jaya   |  900000 |
| Sari Murti        |  900000 |
| Canka Lokananta   |  900000 |
| Budi Martono      |  900000 |
| Sutopo            | 1000000 |
| Maryati           | 1000000 |
| Suparman          | 1000000 |
| Kartika Padmasari | 1000000 |
| Budi Eko Prayogo  | 1000000 |
| Satria Eka Jaya   | 1000000 |
| Sari Murti        | 1000000 |
| Canka Lokananta   | 1000000 |
| Budi Martono      | 1000000 |
```

e. Menampilkan cabang yang memiliki rekening.

```
MariaDB [perbankan]> SELECT DISTINCT cabang_bank.nama_cabang FROM cabang_bank WHERE cabang_bank.kode_cabang IN (SELECT DISTINCT rekening.kode_cabangFK from rekening);;
+------------------------+
| nama_cabang            |
+------------------------+
| Bank Rut Unit Boyolali |
| Bank Rut Unit Klaten   |
| Bank Rut Unit Surakarta|
| Bank Rut Unit Yogyakarta|
+------------------------+
4 rows in set (0.094 sec)
```