

Laporan Praktikum Sistem Basis Data

Nama : Dimas Kurniawan
Nim : L200170122
Kelas : E
Modul : 10

Latihan

```
Setting environment for using XAMPP for Windows.
LABSI-05@LABSI-05-PC c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 26
Server version: 10.1.37-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [(perbankan)]> SELECT * FROM nasabah where nasabah.id_nasabah IN (select DISTINCT transaksi.id_nasabahFK from transaksi where jenis_transaksi='kredit');
+----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT Haryono 31 |
| 3 | Supatman | Jl. Hasanudin 81 |
| 4 | Kartika Padnasari | Jl. Manggis 15 |
| 5 | Budi Eko Prayogo | Jl. Kantiil 39 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Martono | Jl. Merak 22 |
| 11 | Banindya | Jl. Ahi Balak 22 |
| 12 | Puput | Jl. AMD 10 |
| 14 | Putri | Jl. Diponegoro 19 |
| 17 | Pandan Wangi | Jl. Inan Bonjol 20 |
+----+-----+-----+
11 rows in set (0.05 sec)

MariaDB [(perbankan)]> SELECT * FROM nasabah where nasabah.id_nasabah NOT IN (select DISTINCT transaksi.id_nasabahFK from transaksi);
+----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+----+-----+-----+
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 18 | Andara | Jl. Pertamina 26 |
| 19 | Bangga | Jl. Redua 80 |
| 20 | Citra | Jl. Ketiga 24 |
| 31 | susilo | Sukoharjo |
| 32 | pardi jagung | Jl.kejombloan 43 |
+----+-----+-----+
7 rows in set (0.00 sec)

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=rekening.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 | 2500000.0000 |
+-----+-----+-----+
1 row in set (0.04 sec)

MariaDB [(perbankan)]> select * from transaksi where jumlah > (SELECT AVG(jumlah) FROM transaksi);
+----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal | jumlah |
+----+-----+-----+-----+-----+-----+
| 6 | 1 | 104 | kredit | 2009-11-15 00:00:00 | 200000 |
| 7 | 9 | 110 | kredit | 2009-11-15 00:00:00 | 150000 |
| 10 | 4 | 107 | debit | 2009-11-19 00:00:00 | 100000 |
| 11 | 2 | 103 | debit | 2009-11-19 00:00:00 | 100000 |
| 13 | 4 | 107 | kredit | 2009-11-20 00:00:00 | 200000 |
| 15 | 1 | 104 | kredit | 2009-11-22 00:00:00 | 100000 |
| 19 | 10 | 108 | debit | 2009-11-26 00:00:00 | 100000 |
| 21 | 2 | 103 | kredit | 2009-11-28 00:00:00 | 200000 |
| 22 | 3 | 105 | kredit | 2009-11-28 00:00:00 | 100000 |
| 27 | 2 | 103 | kredit | 2009-12-05 00:00:00 | 100000 |
| 28 | 5 | 102 | kredit | 2009-12-05 00:00:00 | 200000 |
| 29 | 9 | 109 | debit | 2009-12-05 00:00:00 | 100000 |
| 34 | 15 | 116 | debit | 2009-12-08 00:00:00 | 100000 |
| 35 | 11 | 123 | debit | 2009-12-08 00:00:00 | 200000 |
| 37 | 16 | 118 | debit | 2009-12-11 00:00:00 | 100000 |
| 40 | 16 | 118 | debit | 2009-12-13 00:00:00 | 150000 |
| 41 | 10 | 119 | debit | 2009-12-14 00:00:00 | 100000 |
| 42 | 12 | 114 | kredit | 2009-12-14 00:00:00 | 125000 |
| 43 | 12 | 121 | kredit | 2009-12-14 00:00:00 | 125000 |
| 44 | 16 | 118 | debit | 2009-12-15 00:00:00 | 200000 |
| 46 | 14 | 120 | kredit | 2009-12-16 00:00:00 | 175000 |
| 48 | 10 | 113 | kredit | 2009-12-18 00:00:00 | 100000 |
| 49 | 11 | 122 | debit | 2009-12-19 00:00:00 | 200000 |
| 50 | 12 | 114 | kredit | 2009-12-20 00:00:00 | 150000 |
+----+-----+-----+-----+-----+-----+
24 rows in set (0.00 sec)
```

Tugas 1

```
MariaDB [perbankan]> select AVG(jumlah) from transaksi;
+-----+
| AVG(jumlah) |
+-----+
| 89600.0000  |
+-----+
1 row in set (0.00 sec)

MariaDB [perbankan]> select jumlah from transaksi where jumlah < (select AVG(jumlah) from transaksi);
+-----+
| jumlah |
+-----+
| 50000  |
| 40000  |
| 20000  |
| 50000  |
| 30000  |
| 20000  |
| 50000  |
| 50000  |
| 40000  |
| 20000  |
| 50000  |
| 50000  |
| 50000  |
| 20000  |
| 50000  |
| 40000  |
| 50000  |
| 20000  |
| 20000  |
| 20000  |
| 25000  |
| 50000  |
| 50000  |
| 50000  |
| 50000  |
| 80000  |
+-----+
26 rows in set (0.00 sec)
```

```
MariaDB [perbankan]> select jumlah from transaksi where jumlah > (select AVG(jumlah) from transaksi);
+-----+
| jumlah |
+-----+
| 200000 |
| 150000 |
| 100000 |
| 100000 |
| 200000 |
| 100000 |
| 100000 |
| 200000 |
| 100000 |
| 100000 |
| 200000 |
| 100000 |
| 100000 |
| 200000 |
| 100000 |
| 150000 |
| 100000 |
| 125000 |
| 125000 |
| 200000 |
| 175000 |
| 130000 |
| 200000 |
| 150000 |
+-----+
24 rows in set (0.00 sec)
```

```
MariaDB [perbankan]> select DISTINCT (nama_nasabah), jumlah from nasabah, transaksi where nasabah.id_nasabah = transaksi.id_nasabahFK AND jumlah > (select AVG(jumlah) from transaksi);
+-----+-----+
| nama_nasabah | jumlah |
+-----+-----+
| Sutopo       | 200000 |
| Canka Lokananta | 150000 |
| Kartika Padnasari | 100000 |
| Maryati      | 100000 |
| Kartika Padnasari | 200000 |
| Sutopo       | 100000 |
| Budi Martono | 100000 |
| Maryati      | 200000 |
| Suparman     | 100000 |
| Budi Eko Prayogo | 200000 |
| Triandarya   | 100000 |
| Beang        | 100000 |
| Danindya     | 200000 |
| Khatulistyawara | 100000 |
| Khatulistyawara | 150000 |
| Puput        | 125000 |
| Khatulistyawara | 200000 |
| Putri        | 175000 |
| Budi Martono | 130000 |
| Puput        | 150000 |
+-----+-----+
20 rows in set (0.00 sec)
```

```
MariaDB [perbankan]> select no_rekening from rekening where saldo > (select AVG(saldo) from rekening);
+-----+
| no_rekening |
+-----+
| 105         |
| 106         |
| 108         |
| 115         |
| 117         |
| 122         |
+-----+
6 rows in set (0.00 sec)
```

Tugas 2

```
MariaDB [perkuliahan]> select mahasiswa.nim from mahasiswa, matkul, link_mahasiswa_matkul where mahasiswa.nim=link_mahasiswa_matkul.nim and matkul.kode_matkul=link_mahasiswa_matkul.kode_matkul and mahasiswa.nim not in (select link_mahasiswa_matkul.nim from link_mahasiswa_matkul where kode_matkul='TIF001') group by mahasiswa.nim;
```

```
+-----+
| nim |
+-----+
| L200150125 |
+-----+
1 row in set (0.00 sec)
```

```
MariaDB [perkuliahan]> select * from link_mahasiswa_matkul where kode_matkul='TIF001';
```

```
+-----+-----+-----+
| nim | kode_matkul | nilai |
+-----+-----+-----+
| L200150083 | TIF001 | 70 |
| L200150088 | TIF001 | 80 |
| L200150099 | TIF001 | 70 |
| L200150112 | TIF001 | 90 |
| L200150113 | TIF001 | 70 |
| L200150117 | TIF001 | 80 |
| L200150118 | TIF001 | 80 |
| L200150123 | TIF001 | 85 |
| L200150127 | TIF001 | 90 |
| L200150128 | TIF001 | 80 |
| L200150129 | TIF001 | 80 |
| L200150144 | TIF001 | 80 |
| L200150146 | TIF001 | 90 |
| L200154001 | TIF001 | 70 |
+-----+-----+-----+
```

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

```
MariaDB [perkuliahan]> select mahasiswa.nim, mahasiswa.nama from mahasiswa, link_mahasiswa_matkul, matkul where mahasiswa.nim=link_mahasiswa_matkul.nim and matkul.kode_matkul=link_mahasiswa_matkul.kode_matkul and matkul.kode_matkul in (select kode_matkul from matkul where kode_dosen='D004') group by mahasiswa.nim, mahasiswa.nama having count(matkul.kode_matkul)=(select count(kode_matkul) from matkul where kode_dosen='D004');
```

```
+-----+-----+
| nim | nama |
+-----+-----+
| L200150088 | Khofa Prayoga |
| L200150099 | Purwatinah |
| L200150117 | Widiyarti Endang Saputri |
| L200150123 | Danindya Puput Maliana Putri |
| L200150128 | Sulthana Dzakira Drajat |
| L200150129 | Fendy |
| L200150144 | Sam'an Alghozy |
| L200150146 | Pakhrur Razi |
| L200154001 | Khilyatin Ulin Fitri |
+-----+-----+
```

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

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

```
MariaDB [perkuliahan]>
MariaDB [perkuliahan]> update link_mahasiswa_matkul as link set link.kode_matkul='TIF010' where link.nim in (select distinct mahasiswa.nim from mahasiswa where link.kode_matkul='TIF009');
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```