Nama   : Galih Prayoga

NIM   : L200180006

Kelas   : A

Laporan Praktikum Sistem Basis Data

Modul 6

- **Praktikum**
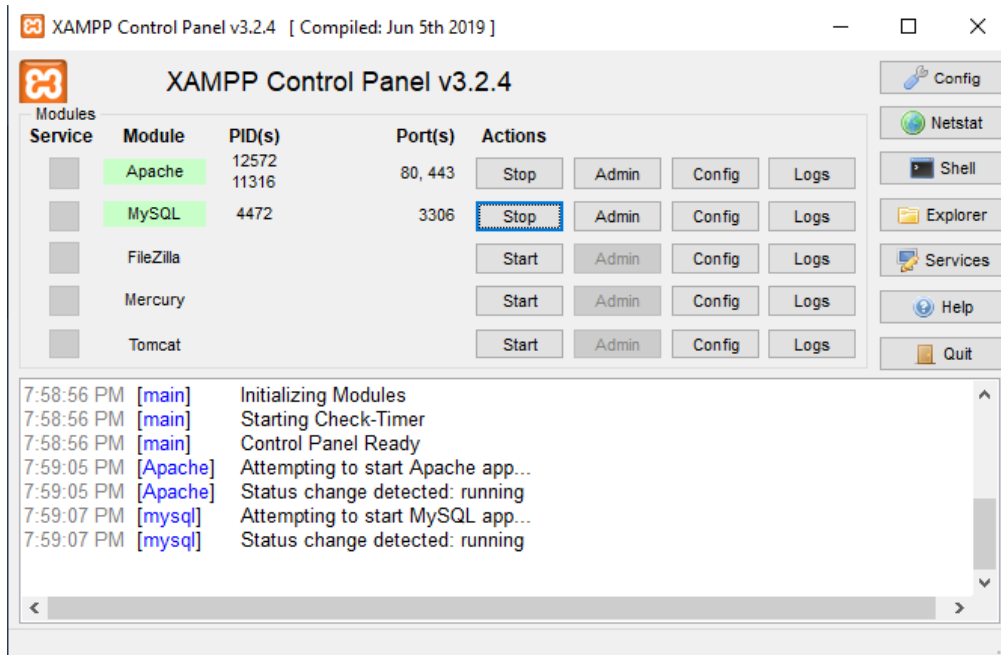
Menampilkan nama dan alamat cabang bank yang diurutkan berdasarkan kode cabang

```
MariaDB [perbankan]> SELECT nama_cabang, alamat_cabang FROM cabang_bank ORDER BY nama_cabang;
+------------------------+----------------------+
| nama_cabang            | alamat_cabang        |
+------------------------+----------------------+
| Bank Rut Unit Boyolali | Jl. Ahmad Yani 45    |
| Bank Rut Unit Cilacap  | Jl. Rajawali 34      |
| Bank Rut Unit Indramayu| Jl. Garuda 15        |
| Bank Rut Unit Jakarta  | Jl. Soekarno-Hatta 23|
| Bank Rut Unit Klaten   | Jl. Suparman 23      |
| Bank Rut Unit Lamongan | Jl. Singa 14         |
| Bank Rut Unit Pacitan  | Jl. Selayar 44       |
| Bank Rut Unit Pekalongan| Jl. Lawu 37         |
| Bank Rut Unit Ponorogo | Jl. Sudirman 1       |
| Bank Rut Unit Semarang | Jl. Kartini 4        |
| Bank Rut Unit Surakarta| Jl. Slamet Riyadi 18 |
| Bank Rut Unit Tegal    | Jl. Rinjani 12       |
| Bank Rut Unit Ungaran  | Jl. Sisemut 45       |
| Bank Rut Unit Wonogiri | Jl. A. Yani No.23    |
| Bank Rut Unit Yogyakarta| Jl. Anggrek 21      |
+------------------------+----------------------+
15 rows in set (0.002 sec)

MariaDB [perbankan]> _
```

Menampilkan nomor rekening, pin dan saldo yang diurutkan dari yang terbesar sampai yang terkecil

```
MariaDB [perbankan]> SELECT no_rekening, pin, saldo FROM rekening ORDER BY saldo DESC;
+-------------+------+---------+
| no_rekening | pin  | saldo   |
+-------------+------+---------+
|         108 | 0    | 5000000 |
|         106 | 6666 | 3000000 |
|         105 | 5555 | 2000000 |
|         107 | 7777 | 1000000 |
|         104 | 4444 |  900000 |
|         103 | 3333 |  750000 |
|         121 | 1232 |  600000 |
|         110 | 1234 |  550000 |
|         114 | 1235 |  500000 |
|         101 | 1111 |  500000 |
|         123 | 1223 |  450000 |
|         120 | 1231 |  440000 |
|         122 | 1233 |  430000 |
|         115 | 1236 |  400000 |
|         117 | 1238 |  360000 |
|         118 | 1239 |  350000 |
|         102 | 2222 |  350000 |
|         119 | 1230 |  300000 |
|         112 | 123  |  300000 |
|         116 | 1237 |  300000 |
|         113 | 8888 |  255000 |
|         111 | 4321 |  150000 |
|         109 | 9999 |       0 |
+-------------+------+---------+
23 rows in set (0.002 sec)
```

- **Tugas**
  1. Nomor 1

```
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah;
+-------------------+------------------------+
| nama_nasabah      | alamat_nasabah         |
+-------------------+------------------------+
| Ahmad Ridwan      | Jl. Rambutan 21        |
| Ali Saputra       | Jl. Anggur 11          |
| Anggit Pratiwi    | Jl. Matoa 13           |
| Arsida Ulfa       | Jl. Sawo 43            |
| Budi Eko Prayogo  | Jl. Kantil 30          |
| Budi Murtono      | Jl. Merak 22           |
| Candra Kirana     | Jl. Durian 34          |
| Canka Lokananta   | Jl. Tidar 86           |
| Fitri Dearlia     | Jl. Apel 43            |
| Juli Ariawan      | Jl. Mangga 17          |
| Kartika Padmasari | Jl. Manggis 15         |
| Maryati           | Jl. MT. Haryono 31     |
| Riski Nurdiansyah | Jl. Apel 25            |
| Sari Murti        | Jl. Pangandaran 11     |
| Satria Eka Jaya   | Jl. Slamet Riyadi 45   |
| Septian Dwi       | Jl. Jeruk 6            |
| Suparman          | Jl. Hasanudin 81       |
| Sutopo            | Jl. Jendral Sudirman 12 |
| Zainal Fathoni    | Jl. Manggis 44         |
+-------------------+------------------------+
19 rows in set (0.001 sec)
```

  2. Nomor 2

```
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi WHERE jenis_transaksi="kredit";
+-----------------+--------+
| jenis_transaksi | jumlah |
+-----------------+--------+
| kredit          |  20000 |
| kredit          |  30000 |
| kredit          | 200000 |
| kredit          | 150000 |
| kredit          |  50000 |
| kredit          | 200000 |
| kredit          | 100000 |
| kredit          |  20000 |
| kredit          |  50000 |
| kredit          | 200000 |
| kredit          | 100000 |
| kredit          | 100000 |
| kredit          | 200000 |
| kredit          |  50000 |
| kredit          |  50000 |
| kredit          | 500000 |
| kredit          |  50000 |
+-----------------+--------+
17 rows in set (0.000 sec)

MariaDB [perbankan]> _
```

  3. Nomor 3

```
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi WHERE tanggal="2009-11-21" ORDER BY jumlah;
+-----------------+--------+
| jenis_transaksi | jumlah |
+-----------------+--------+
| debit           |  40000 |
+-----------------+--------+
1 row in set (0.002 sec)

MariaDB [perbankan]> _
```

4. Nomor 4

```
MariaDB [perbankan]> SELECT nasabah.nama_nasabah, transaksi.jenis_transaksi, transaksi.jumlah FROM transaksi JOIN nasabah ON transaksi.id_nasabahFK=nasabah.id_nasabah W
HERE jumlah = 20000;
+-------------------+----------------+--------+
| nama_nasabah      | jenis_transaksi | jumlah |
+-------------------+----------------+--------+
| Kartika Padmasari | kredit         | 20000  |
| Budi Eko Prayogo  | debit          | 20000  |
| Kartika Padmasari | kredit         | 20000  |
| Budi Eko Prayogo  | debit          | 20000  |
| Canka Lokananta   | debit          | 20000  |
| Fitri Dearlia     | debit          | 20000  |
+-------------------+----------------+--------+
6 rows in set (0.000 sec)

MariaDB [perbankan]>
```

5. Nomor 5

```
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah WHERE nama_nasabah LIKE "Su%";
+--------------+-----------------------+
| nama_nasabah | alamat_nasabah        |
+--------------+-----------------------+
| Sutopo       | Jl. Jendral Sudirman 12 |
| Suparman     | Jl. Hasanudin 81      |
+--------------+-----------------------+
2 rows in set (0.001 sec)

MariaDB [perbankan]>
```

6. Tampilkan data transaksi yang transaksinya=Rp 100.000 dan jenis transaksinya debit.

```
MariaDB [perbankan]> SELECT*FROM transaksi WHERE jumlah = 100000 and jenis_transaksi = "debit";
+-------------+--------------+-------------+----------------+---------------------+--------+
| no_transaksi | no_rekeningfk | id_nasabahfk | jenis_transaksi | tanggal             | jumlah |
+-------------+--------------+-------------+----------------+---------------------+--------+
|          10 |          107 |           4 | debit          | 2009-11-19 00:00:00 | 100000 |
|          11 |          103 |           2 | debit          | 2009-11-19 00:00:00 | 100000 |
|          19 |          108 |          10 | debit          | 2009-11-26 00:00:00 | 100000 |
|          29 |          109 |           7 | debit          | 2009-12-05 00:00:00 | 100000 |
|          36 |          116 |          13 | debit          | 2009-12-08 00:00:00 | 100000 |
|          43 |          118 |          15 | debit          | 2009-12-09 00:00:00 | 100000 |
+-------------+--------------+-------------+----------------+---------------------+--------+
6 rows in set (0.001 sec)

MariaDB [perbankan]>
```

7. Tampilkan data transaksi yang transaksinya >= Rp 100.000, jenis transaksinya debit dan dilakukan pada tanggal 9 Desember 2009.

```
MariaDB [perbankan]> SELECT*FROM transaksi WHERE jumlah >= 100000 and jenis_transaksi = "debit" and tanggal='2009-12-09';
+-------------+--------------+-------------+----------------+---------------------+--------+
| no_transaksi | no_rekeningfk | id_nasabahfk | jenis_transaksi | tanggal             | jumlah |
+-------------+--------------+-------------+----------------+---------------------+--------+
|          43 |          118 |          15 | debit          | 2009-12-09 00:00:00 | 100000 |
|          44 |          114 |          11 | debit          | 2009-12-09 00:00:00 | 140000 |
+-------------+--------------+-------------+----------------+---------------------+--------+
2 rows in set (0.000 sec)

MariaDB [perbankan]>
```

8. Tampilkan 2 baris data transaksi setelah melewati 2 baris pertama yang diurutkan berdasarkan nomor transaksi.

```
MariaDB [perbankan]> select * from transaksi order by no_transaksi limit 2 offset 2;
+-------------+--------------+-------------+----------------+---------------------+--------+
| no_transaksi | no_rekeningfk | id_nasabahfk | jenis_transaksi | tanggal             | jumlah |
+-------------+--------------+-------------+----------------+---------------------+--------+
|           3 |          101 |           4 | kredit         | 2009-11-12 00:00:00 | 20000  |
|           4 |          106 |           3 | debit          | 2009-11-13 00:00:00 | 50000  |
+-------------+--------------+-------------+----------------+---------------------+--------+
2 rows in set (0.001 sec)

MariaDB [perbankan]>
```

9. Tampilkan data nasabah dimana nama nasabah diawali dengan huruf 'J' dan alamat nasabah terisi(Not Null)

```
MariaDB [perbankan]> select * from nasabah where nama_nasabah like "J%" and alamat_nasabah is not null;
+-----------+--------------+----------------+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----------+--------------+----------------+
|        12 | Juli Ariawan | Jl. Mangga 17  |
+-----------+--------------+----------------+
1 row in set (0.001 sec)

MariaDB [perbankan]>
```

10. Tampilkan 3 baris data nasabah setelah melewati 3 baris pertama yang diurutkan berdasarkan nama nasabah dan alamat nasabah terisi(Not Null)

```
MariaDB [perbankan]> select * from nasabah where alamat_nasabah is not null order by nama_nasabah limit 3 offset 3;
+-----------+------------------+----------------+
| id_nasabah | nama_nasabah    | alamat_nasabah |
+-----------+------------------+----------------+
|        19 | Arsida Ulfa      | Jl. Sawo 43    |
|         5 | Budi Eko Prayogo | Jl. Kantil 30  |
|        10 | Budi Murtono     | Jl. Merak 22   |
+-----------+------------------+----------------+
3 rows in set (0.001 sec)

MariaDB [perbankan]>
```

11. Soal tambahan
    I.   Soal tambahan no 1

```
MariaDB [perbankan]> select * from nasabah where nama_nasabah like "Su%";
+-----------+--------------+------------------------+
| id_nasabah | nama_nasabah | alamat_nasabah         |
+-----------+--------------+------------------------+
|         1 | Sutopo       | Jl. Jendral Sudirman 12 |
|         3 | Suparman     | Jl. Hasanudin 81       |
+-----------+--------------+------------------------+
2 rows in set (0.000 sec)

MariaDB [perbankan]>
```

II.   Soal tambahan no 2

```
MariaDB [perbankan]> select nasabah.nama_nasabah, rekening.kode_cabangFK, count(*) as c from nasabah_has_rekening join rekening on nasabah_has_rekening.no_rekeningFK=re
kening.no_rekening join nasabah on nasabah_has_rekening.id_nasabahFK=nasabah.id_nasabah group by kode_cabangFK having c>1;
+-----------------+--------------+---+
| nama_nasabah    | kode_cabangFK | c |
+-----------------+--------------+---+
| Satria Eka Jaya | BRUB         | 2 |
| Sari Murti      | BRUK         | 2 |
| Sutopo          | BRUM         | 2 |
| Maryati         | BRUS         | 6 |
| Budi Murtono    | BRUW         | 2 |
+-----------------+--------------+---+
5 rows in set (0.001 sec)

MariaDB [perbankan]>
```

III.   Soal tambahan no 3

```
MariaDB [perbankan]> select nasabah.nama_nasabah, rekening.kode_cabangFK, transaksi.jenis_transaksi, count(*) as c from transaksi join rekening on transaksi.no_rekening
FK=rekening.no_rekening join nasabah on transaksi.id_nasabahFK=nasabah.id_nasabah where jenis_transaksi='debit' OR jenis_transaksi = 'kredit' group by kode_cabangFK hav
ing c>1;
+------------------+--------------+-----------------+----+
| nama_nasabah     | kode_cabangFK | jenis_transaksi | c  |
+------------------+--------------+-----------------+----+
| Anggit Pratiwi   | BRUJ         | debit           | 2  |
| Septian Dwi      | BRUL         | kredit          | 2  |
| Suparman         | BRUM         | debit           | 8  |
| Fitri Dearlia    | BRUP         | debit           | 2  |
| Riski Nurdiansyah | BRUPA       | debit           | 2  |
| Candra Kirana    | BRUPO        | debit           | 3  |
| Maryati          | BRUS         | debit           | 18 |
| Ali Saputra      | BRUSE        | debit           | 3  |
| Juli Ariawan     | BRUT         | kredit          | 3  |
| Canka Lokananta  | BRUY         | kredit          | 2  |
+------------------+--------------+-----------------+----+
10 rows in set (0.001 sec)

MariaDB [perbankan]>
```

IV.   Soal tambahan no 4

```
MariaDB [perbankan]> select transaksi.no_transaksi, transaksi.no_rekeningFK, transaksi.id_nasabahFK, transaksi.jenis_transaksi, transaksi.tanggal, transaksi.jumlah, rek
ening.kode_cabangFK, count(*) as c from transaksi join rekening on transaksi.no_rekeningFK=rekening.no_rekening join nasabah on transaksi.id_nasabahFK=nasabah.id_nasaba
h group by kode_cabangFK having c>1;
+--------------+---------------+-------------+-----------------+---------------------+--------+--------------+----+
| no_transaksi | no_rekeningFK | id_nasabahFK | jenis_transaksi | tanggal             | jumlah | kode_cabangFK | c  |
+--------------+---------------+-------------+-----------------+---------------------+--------+--------------+----+
|           38 |           121 |          18 | debit           | 2009-12-08 00:00:00 | 400000 | BRUJ         |  2 |
|           32 |           119 |          16 | kredit          | 2009-12-06 00:00:00 |  50000 | BRUL         |  2 |
|            1 |           105 |           3 | debit           | 2009-11-10 00:00:00 |  50000 | BRUM         |  8 |
|           34 |           123 |          20 | debit           | 2009-12-07 00:00:00 |  50000 | BRUP         |  2 |
|           41 |           118 |          15 | debit           | 2009-12-08 00:00:00 |  80000 | BRUPA        |  2 |
|           37 |           117 |          14 | debit           | 2009-12-08 00:00:00 | 800000 | BRUPO        |  3 |
|            2 |           103 |           2 | debit           | 2009-11-10 00:00:00 |  40000 | BRUS         | 18 |
|           35 |           114 |          11 | debit           | 2009-12-07 00:00:00 | 200000 | BRUSE        |  3 |
|           31 |           115 |          12 | kredit          | 2009-12-06 00:00:00 |  50000 | BRUT         |  3 |
|            7 |           110 |           9 | kredit          | 2009-11-15 00:00:00 | 150000 | BRUY         |  2 |
+--------------+---------------+-------------+-----------------+---------------------+--------+--------------+----+
10 rows in set (0.001 sec)

MariaDB [perbankan]>
```

V.   Soal tambahan no 5

```
MariaDB [perbankan]> select transaksi.no_transaksi, transaksi.no_rekeningFK, transaksi.id_nasabahFK, transaksi.jenis_transaksi, transaksi.tanggal, transaksi.jumlah, rek
ening.kode_cabangFK from transaksi join rekening on transaksi.no_rekeningFK=rekening.no_rekening join cabang_bank on rekening.kode_cabangFK = cabang_bank.kode_cabang wh
ere nama_cabang="Bank Rut Unit Surakarta" OR nama_cabang="Bank Rut Unit Boyolali";
+--------------+---------------+-------------+-----------------+---------------------+--------+--------------+
| no_transaksi | no_rekeningFK | id_nasabahFK | jenis_transaksi | tanggal             | jumlah | kode_cabangFK |
+--------------+---------------+-------------+-----------------+---------------------+--------+--------------+
|            2 |           103 |           2 | debit           | 2009-11-10 00:00:00 |  40000 | BRUS         |
|            3 |           101 |           4 | kredit          | 2009-11-12 00:00:00 |  20000 | BRUS         |
|            4 |           106 |           3 | debit           | 2009-11-13 00:00:00 |  50000 | BRUS         |
|            5 |           107 |           5 | kredit          | 2009-11-13 00:00:00 |  30000 | BRUS         |
|            8 |           102 |           5 | debit           | 2009-11-16 00:00:00 |  20000 | BRUS         |
|           10 |           107 |           4 | debit           | 2009-11-19 00:00:00 | 100000 | BRUS         |
|           11 |           103 |           2 | debit           | 2009-11-19 00:00:00 | 100000 | BRUS         |
|           13 |           107 |           4 | kredit          | 2009-11-20 00:00:00 | 200000 | BRUS         |
|           16 |           101 |           4 | kredit          | 2009-11-22 00:00:00 |  20000 | BRUS         |
|           17 |           103 |           2 | debit           | 2009-11-22 00:00:00 |  50000 | BRUS         |
|           18 |           102 |           5 | debit           | 2009-11-25 00:00:00 |  50000 | BRUS         |
|           19 |           108 |          10 | debit           | 2009-11-26 00:00:00 | 100000 | BRUB         |
|           20 |           106 |           3 | kredit          | 2009-11-27 00:00:00 |  50000 | BRUS         |
|           21 |           103 |           2 | kredit          | 2009-11-28 00:00:00 | 200000 | BRUS         |
|           23 |           102 |           5 | debit           | 2009-11-30 00:00:00 |  20000 | BRUS         |
|           25 |           103 |           2 | debit           | 2009-12-02 00:00:00 |  40000 | BRUS         |
|           26 |           101 |           4 | debit           | 2009-12-04 00:00:00 |  50000 | BRUS         |
|           27 |           103 |           2 | kredit          | 2009-12-05 00:00:00 | 100000 | BRUS         |
|           28 |           102 |           5 | kredit          | 2009-12-05 00:00:00 | 200000 | BRUS         |
|           29 |           109 |           7 | debit           | 2009-12-05 00:00:00 | 100000 | BRUB         |
+--------------+---------------+-------------+-----------------+---------------------+--------+--------------+
20 rows in set (0.002 sec)

MariaDB [perbankan]>
```