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## Laporan Praktikum Modul 6

### A. Kegiatan Praktikum

```
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.476]
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C:\Users\ASUS>cd ../..

C:\>cd C:\xampp\mysql\bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.11-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 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 Jepara | Jl. Keong Mas 43 |
| Bank Rut Unit Karanganyar | Jl. Badak 34 |
| Bank Rut Unit Kediri | Jl. Hasanudin 99 |
| Bank Rut Unit Kendal | Jl. Emprit 56 |
| Bank Rut Unit Klaten | Jl. Suparman 23 |
| Bank Rut Unit Magetan | Jl. Kakaktua 23 |
| Bank Rut Unit Pati | Jl. Singa 87 |
| Bank Rut Unit Purwodadi | Jl. Kucing 65 |
| Bank Rut Unit Semarang | Jl. Menteng 15 |
| Bank Rut Unit Sragen | Jl. Singa 13 |
| Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| Bank Rut Unit UMS | Jl. Elang Mas 1 |
| Bank Rut Unit Wonogiri | Jl. A. Yani 23 |
| Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+
15 rows in set (0.567 sec)

MariaDB [perbankan]> select no_rekening,pin,saldo from rekening order by saldo desc;
+-----+-----+-----+
| no_rekening | pin | saldo |
+-----+-----+-----+
| 108 | 0000 | 5000000 |
| 106 | 6666 | 3000000 |
| 105 | 5555 | 2000000 |
| 107 | 7777 | 1000000 |
| 122 | 6453 | 976000 |
| 104 | 4444 | 900000 |
| 103 | 3333 | 750000 |
| 118 | 4680 | 678000 |
| 120 | 1267 | 654000 |
| 110 | 1234 | 550000 |
| 101 | 1111 | 500000 |
| 102 | 2222 | 350000 |
| 112 | 0123 | 300000 |
| 113 | 8888 | 255000 |
| 115 | 8901 | 235000 |
| 111 | 4321 | 150000 |
| 123 | 7615 | 144000 |
| 114 | 2456 | 124000 |
| 119 | 1345 | 124000 |
| 117 | 0875 | 90000 |
| 121 | 3478 | 87000 |
| 116 | 1235 | 54000 |
| 109 | 9999 | 0 |
+-----+-----+-----+
23 rows in set (0.025 sec)

MariaDB [perbankan]>
```

```
Command Prompt - mysql -u root -p
15 rows in set (0.567 sec)

MariaDB [perbankan]> select no_rekening,pin,saldo from rekening order by saldo desc;
+-----+-----+-----+
| no_rekening | pin | saldo |
+-----+-----+-----+
| 108 | 0000 | 5000000 |
| 106 | 6666 | 3000000 |
| 105 | 5555 | 2000000 |
| 107 | 7777 | 1000000 |
| 122 | 6453 | 976000 |
| 104 | 4444 | 900000 |
| 103 | 3333 | 750000 |
| 118 | 4680 | 678000 |
| 120 | 1267 | 654000 |
| 110 | 1234 | 550000 |
| 101 | 1111 | 500000 |
| 102 | 2222 | 350000 |
| 112 | 0123 | 300000 |
| 113 | 8888 | 255000 |
| 115 | 8901 | 235000 |
| 111 | 4321 | 150000 |
| 123 | 7615 | 144000 |
| 114 | 2456 | 124000 |
| 119 | 1345 | 124000 |
| 117 | 0875 | 90000 |
| 121 | 3478 | 87000 |
| 116 | 1235 | 54000 |
| 109 | 9999 | 0 |
+-----+-----+-----+
23 rows in set (0.025 sec)

MariaDB [perbankan]>
```

## B. Tugas

### 1. Menampilkan nama\_nasabah dan alamat\_nasabah diurutkan berdasarkan nama nasabah

```
Command Prompt - mysql -u root -p
23 rows in set (0.025 sec)

MariaDB [perbankan]> select nama_nasabah,alamat_nasabah from nasabah order by nama_nasabah;
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Angga        | Jl. Merak 4     |
| Anto         | Jl. Beo 4       |
| Anton        | Jl. Beo 5       |
| Ardi         | Jl. Merak 1     |
| Bram         | Jl. Merak 3     |
| Budi Eko Prayogo | Jl. Kantil 30  |
| Budi Martono | Jl. Merak 22    |
| Candra       | Jl. Beo 1       |
| Canka Lokananta | Jl. Tidar 86   |
| Ilham        | Jl. Beo 6       |
| Jecky        | Jl. Beo 2       |
| Kartika Padmasari | Jl. Manggis 15 |
| Maryati      | Jl. MT. Haryono 31 |
| Miqdad       | Jl. Merak 2     |
| Nasir        | Jl. Beo 3       |
| Sari Murti   | Jl. Pangandaran 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Suparman     | Jl. Hasanudin 81 |
| Sutopo       | Jl. Jendral Sudirman 12 |
+-----+-----+
19 rows in set (0.420 sec)

MariaDB [perbankan]>
```

### 2. Menampilkan jenis transaksi dan jumlah transaksi dimana jenis transaksinya dalah kredit

```
Command Prompt - mysql -u root -p
19 rows in set (0.420 sec)

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 |
+-----+-----+
13 rows in set (0.552 sec)

MariaDB [perbankan]>
```

### 3. Menampilkan jenis transaksi dan jumlah transaksi yang melakukan transaksi pada tanggal 21 November 2009 dan diurutkan berdasarkan jumlah transaksi

```
Command Prompt - mysql -u root -p
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 (0.123 sec)

MariaDB [perbankan]> _
```

4. Menampilkan nama nasabah, jenis transaksi dan jumlah transaksi dimana jumlah transaksi = Rp. 20.000

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select nama_nasabah, jenis_transaksi, jumlah from nasabah, transaksi where nasabah.id_nasabah-transaksi.id_nasabahFK and jumlah = 20000;
+-----+-----+-----+
| nama_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+
| Sutopo       | kredit          | 20000  |
| Maryati      | kredit          | 20000  |
| Suparman     | kredit          | 20000  |
| Budi Eko Prayogo | kredit        | 20000  |
| Satria Eka Jaya | kredit        | 20000  |
| Sari Murti   | kredit          | 20000  |
| Canka Lokananta | kredit        | 20000  |
| Budi Martono | kredit          | 20000  |
| Candra       | kredit          | 20000  |
| Jecky        | kredit          | 20000  |
| Nasir        | kredit          | 20000  |
| Anto         | kredit          | 20000  |
| Anton        | kredit          | 20000  |
| Ilham        | kredit          | 20000  |
| Ardi         | kredit          | 20000  |
| Miqdad       | kredit          | 20000  |
| Bram         | kredit          | 20000  |
| Angga        | kredit          | 20000  |
| Sutopo       | debit           | 20000  |
| Maryati      | debit           | 20000  |
| Suparman     | debit           | 20000  |
| Kartika Padmasari | debit        | 20000  |
| Satria Eka Jaya | debit        | 20000  |
| Sari Murti   | debit           | 20000  |
| Canka Lokananta | debit        | 20000  |
| Budi Martono | debit           | 20000  |
| Candra       | debit           | 20000  |
| Jecky        | debit           | 20000  |
| Nasir        | debit           | 20000  |
| Anto         | debit           | 20000  |
| Anton        | debit           | 20000  |
| Ilham        | debit           | 20000  |
| Ardi         | debit           | 20000  |
| Miqdad       | debit           | 20000  |
| Bram         | debit           | 20000  |
| Angga        | debit           | 20000  |
| Sutopo       | kredit          | 20000  |
| Maryati      | kredit          | 20000  |
| Suparman     | kredit          | 20000  |
| Budi Eko Prayogo | kredit        | 20000  |
+-----+-----+-----+
```

```
Command Prompt - mysql -u root -p
Anton      kredit      20000
Ilham      kredit      20000
Ardi       kredit      20000
Miqdad     kredit      20000
Bram       kredit      20000
Angga      kredit      20000
Sutopo     debit       20000
Maryati    debit       20000
Suparman   debit       20000
Kartika Padmasari debit       20000
Satria Eka Jaya debit       20000
Sari Murti debit       20000
Canka Lokananta debit       20000
Budi Martono debit       20000
Candra     debit       20000
Jecky      debit       20000
Nasir      debit       20000
Anto       debit       20000
Anton      debit       20000
Ilham      debit       20000
Ardi       debit       20000
Miqdad     debit       20000
Bram       debit       20000
Angga      debit       20000
Sutopo     debit       20000
Maryati    debit       20000
Suparman   debit       20000
Kartika Padmasari debit       20000
Budi Eko Prayogo debit       20000
Satria Eka Jaya debit       20000
Sari Murti debit       20000
Budi Martono debit       20000
Candra     debit       20000
Jecky      debit       20000
Nasir      debit       20000
Anto       debit       20000
Anton      debit       20000
Ilham      debit       20000
Ardi       debit       20000
Miqdad     debit       20000
Bram       debit       20000
Angga      debit       20000
90 rows in set (0.125 sec)
```

5. Menampilkan nama nasabah dan alamat nasabah dimana nama nasabah diawali dengan kata 'Su'

```
Command Prompt - mysql -u root -p
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 (0.103 sec)

MariaDB [perbankan]>
```

6. Sebuah soal menggunakan 2 buah kondisi pada klausa "WHERE"

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select id_nasabah, no_rekening from nasabah,rekening where id_nasabah = '3' and saldo = '500000';
+-----+-----+
| id_nasabah | no_rekening |
+-----+-----+
|          3 |          101 |
+-----+-----+
1 row in set (0.142 sec)

MariaDB [perbankan]> _
```

## 7. Sebuah soal menggunakan 3 buah kondisi pada klausa “WHERE”

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select id_nasabah, no_rekening, pin from nasabah,rekening where id_nasabah = '3' and saldo = '500000' and pin = '1111';
+-----+-----+-----+
| id_nasabah | no_rekening | pin |
+-----+-----+-----+
|          3 |          101 | 1111 |
+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [perbankan]> _
```

## 8. Sebuah soal menggunakan klausa “ORDER”, “LIMIT” dan “OFFSET”

```
Command Prompt - mysql -u root -p
1 row in set (0.001 sec)

MariaDB [perbankan]> select * from cabang_bank order by kode_cabang limit 5 offset 2;
+-----+-----+-----+
| kode_cabang | nama_cabang      | alamat_cabang |
+-----+-----+-----+
| BRUK      | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUKD     | Bank Rut Unit Kediri  | Jl. Hasanudin 99 |
| BRUKH     | Bank Rut Unit Kendal   | Jl. Emprit 56   |
| BRUKR     | Bank Rut Unit Karanganyar | Jl. Badak 34    |
| BRUMG     | Bank Rut Unit Magetan  | Jl. Kakaktua 23  |
+-----+-----+-----+
5 rows in set (0.113 sec)

MariaDB [perbankan]> _
```

9. Sebuah soal menggunakan kondisi pencarian string dan pencarian NULL

```
Command Prompt - mysql -u root -p
5 rows in set (0.113 sec)

MariaDB [perbankan]> select nama_nasabah, no_transaksi from nasabah,transaksi where nama_nasabah like 'Su%' and jumlah is null;
Empty set (0.097 sec)

MariaDB [perbankan]>
```

10. Sebuah soal menggunakan kondisi pencarian string, pencarian NULL, serta menggunakan klausa “ORDER”, “LIMIT” dan “OFFSET”

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select * from nasabah where nama_nasabah like 'Su%' and alamat_nasabah is not null order by id_nasabah limit 4 offset 1;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 3 | Superman | Jl. Hasanudin 81 |
+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [perbankan]>
```

## 11. Buat 5 soal bebas

a. Menampilka tanggal,jenis\_transaksi dan jumlah dimana jenis\_transaksi = 'debit'

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select tanggal,jenis_transaksi,jumlah from transaksi where jenis_transaksi = 'debit';
+-----+-----+-----+
| tanggal | jenis_transaksi | jumlah |
+-----+-----+-----+
| 2009-11-10 00:00:00 | debit | 50000 |
| 2009-11-10 00:00:00 | debit | 40000 |
| 2009-11-13 00:00:00 | debit | 50000 |
| 2009-11-16 00:00:00 | debit | 20000 |
| 2009-11-19 00:00:00 | debit | 100000 |
| 2009-11-19 00:00:00 | debit | 100000 |
| 2009-11-19 00:00:00 | debit | 50000 |
| 2009-11-21 00:00:00 | debit | 40000 |
| 2009-11-22 00:00:00 | debit | 50000 |
| 2009-11-25 00:00:00 | debit | 50000 |
| 2009-11-26 00:00:00 | debit | 100000 |
| 2009-11-30 00:00:00 | debit | 20000 |
| 2009-12-01 00:00:00 | debit | 50000 |
| 2009-12-02 00:00:00 | debit | 40000 |
| 2009-12-04 00:00:00 | debit | 50000 |
| 2009-12-05 00:00:00 | debit | 100000 |
| 2009-12-06 00:00:00 | debit | 20000 |
+-----+-----+-----+
17 rows in set (0.001 sec)

MariaDB [perbankan]>
```

b. Menampilkan semua data di rekening dimana saldo kurang dari 500000

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select * from rekening where saldo < 500000;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin | saldo |
+-----+-----+-----+-----+
| 102 | BRUS | 2222 | 350000 |
| 109 | BRUB | 9999 | 0 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRUV | 8080 | 255000 |
| 114 | BRUMS | 2456 | 124000 |
| 115 | BRUPW | 8001 | 235000 |
| 116 | BRUKN | 1235 | 54000 |
| 117 | BRUKN | 0875 | 90000 |
| 119 | BRUMG | 1345 | 124000 |
| 121 | BRUKD | 3478 | 87000 |
| 123 | BRUB | 7615 | 144000 |
+-----+-----+-----+-----+
12 rows in set (0.104 sec)

MariaDB [perbankan]>
```

c. Menampilkan no\_transaksi, jenis\_transaksi pada tanggal '2009-12-22'

```
Command Prompt - mysql -u root -p
MariaDB [perbankan]> select no_transaksi, jenis_transaksi from transaksi where tanggal = '2009-11-22';
+-----+-----+
| no_transaksi | jenis_transaksi |
+-----+-----+
| 15 | kredit |
| 16 | kredit |
| 17 | debit |
+-----+-----+
3 rows in set (0.001 sec)

MariaDB [perbankan]>
```

d. Menampilkan 20 transaksi terakhir



```
Command Prompt - mysql -u root -p
ne 1
MariaDB [perbankan]> select * from transaksi order by no_transaksi desc limit 20;
```

| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal             | jumlah |
|--------------|--------------|---------------|-----------------|---------------------|--------|
| 30           | 9            | 110           | debit           | 2009-12-06 00:00:00 | 20000  |
| 29           | 7            | 109           | debit           | 2009-12-05 00:00:00 | 100000 |
| 28           | 5            | 102           | kredit          | 2009-12-05 00:00:00 | 200000 |
| 27           | 2            | 103           | kredit          | 2009-12-05 00:00:00 | 100000 |
| 26           | 4            | 101           | debit           | 2009-12-04 00:00:00 | 50000  |
| 25           | 2            | 103           | debit           | 2009-12-02 00:00:00 | 40000  |
| 24           | 1            | 104           | debit           | 2009-12-01 00:00:00 | 50000  |
| 23           | 5            | 102           | debit           | 2009-11-30 00:00:00 | 20000  |
| 22           | 3            | 105           | kredit          | 2009-11-28 00:00:00 | 100000 |
| 21           | 2            | 103           | kredit          | 2009-11-28 00:00:00 | 200000 |
| 20           | 3            | 106           | kredit          | 2009-11-27 00:00:00 | 50000  |
| 19           | 10           | 108           | debit           | 2009-11-26 00:00:00 | 100000 |
| 18           | 5            | 102           | debit           | 2009-11-25 00:00:00 | 50000  |
| 17           | 2            | 103           | debit           | 2009-11-22 00:00:00 | 50000  |
| 16           | 4            | 101           | kredit          | 2009-11-22 00:00:00 | 20000  |
| 15           | 1            | 104           | kredit          | 2009-11-22 00:00:00 | 100000 |
| 14           | 3            | 105           | debit           | 2009-11-21 00:00:00 | 40000  |
| 13           | 4            | 107           | kredit          | 2009-11-20 00:00:00 | 200000 |
| 12           | 1            | 104           | debit           | 2009-11-19 00:00:00 | 50000  |
| 11           | 2            | 103           | debit           | 2009-11-19 00:00:00 | 100000 |

```
20 rows in set (0.001 sec)

MariaDB [perbankan]>
```

e. Menampilkan nama\_cabang dan alamat\_cabang dimana kode\_cabang = 'BRUS'

```
Command Prompt - mysql -u root -p

MariaDB [perbankan]> select nama_cabang,alamat_cabang from cabang_bank where kode_cabang = 'BRUS';
```

| nama_cabang             | alamat_cabang        |
|-------------------------|----------------------|
| Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |

```
1 row in set (0.001 sec)

MariaDB [perbankan]>
```