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## LAPORAN PRAKTIKUM SISTEM BASIS DATA

### Modul 6

#### A. Kegiatan

1. Hasil dari menampilkan nama bank dan alamat bank untuk semua cabang bank dan diurutkan berdasarkan nama bank.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 6.1.7601]
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C:\Users\ASUS>cd\

C:\>cd 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 27
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 Dago     | Jl. Mawar 10           |
| Bank Rut Unit Indonesia | Jl. Merdeka 45        |
| Bank Rut Unit Jember   | Jl. Dahlia 9           |
| Bank Rut Unit Klaten   | Jl. Suparman 23        |
| Bank Rut Unit Lamongan | Jl. Kepiting 70        |
| Bank Rut Unit Magelang | Jl. P. Tendean 63      |
| Bank Rut Unit Oslo     | Jl. Denver 77          |
| Bank Rut Unit Pekalongan | Jl. Cendana 1          |
| Bank Rut Unit Rembang  | Jl. Sepat 34           |
| Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18   |
| Bank Rut Unit Temanggung | Jl. Senja 15           |
| Bank Rut Unit Ungaran   | Jl. Flamboyan 55       |
| Bank Rut Unit Wonogiri  | Jl. Untung Suropati 12 |
| Bank Rut Unit Yogyakarta | Jl. Anggrek 21         |
+-----+-----+
15 rows in set (0.001 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

2. Hasil dari menampilkan nomor rekening, pin, dan jumlah saldo untuk semua rekening dan diurutkan berdasarkan jumlah saldo dari yang paling besar ke yang paling kecil.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> SELECT no_rekening, pin, saldo FROM rekening ORDER BY saldo
DESC;
+-----+-----+-----+
| no_rekening | pin  | saldo |
+-----+-----+-----+
| 120         | 0909 | 10000000 |
| 122         | 9900 | 9500000  |
| 123         | 0099 | 9000000  |
| 119         | 9898 | 5000000  |
| 108         | 0000 | 5000000  |
| 121         | 9090 | 4500000  |
| 106         | 6666 | 3000000  |
| 105         | 5555 | 2000000  |
| 107         | 7777 | 1000000  |
| 118         | 8989 | 950000   |
| 117         | 9988 | 900000   |
| 103         | 3333 | 750000   |
| 115         | 1799 | 700000   |
| 116         | 8899 | 600000   |
| 110         | 1234 | 550000   |
| 101         | 1111 | 500000   |
| 102         | 2222 | 350000   |
| 112         | 0123 | 300000   |
| 113         | 8888 | 255000   |
| 111         | 4321 | 150000   |
| 104         | 4444 | 90000    |
| 114         | 9917 | 0         |
| 109         | 9999 | 0         |
+-----+-----+-----+
23 rows in set (0.002 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

## B. TUGAS

1. Hasil dari menampilkan nama nasabah dan alamat nasabah diurutkan berdasarkan nama nasabah.

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah;
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Ade Pradana   | Jl. Bugenvil 5  |
| Afrialdy      | Jl. Pabelan 75  |
| Askarim       | Jl. Waru 10     |
| Budi Eko Prayogo | Jl. Kantil 30   |
| Budi Murtono  | Jl. Merak 22    |
| Canka Lokananta | Jl. Tidar 86    |
| Dwi           | Jl. Sino 42     |
| Ghani Prasetya | Jl. Sunggingan 21 |
| Indri Hapsari  | Jl. Sutoyo 5    |
| Iqbal         | Jl. Melati 58   |
| Kartika Padmasari | Jl. Manggis 15  |
| Kevin Uitorio  | Jl. Raflesia 80 |
| Maryati       | Jl. MT. Haryono 31 |
| Nur Lutfi      | Jl. Jambu 9     |
| Riyan Sutantio | Jl. Nangka 20   |
| Rizqy Erdi     | Jl. Kancil 7    |
| Sari Murti     | Jl. Pangandaran 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Suparman      | Jl. Hasanudin 81 |
| Sutopo        | Jl. Jendral Sudirman 12 |
+-----+-----+
20 rows in set (0.002 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

2. Hasil dari menampilkan jenis transaksi dan jumlah dimana jenis transaksinya kredit.

```
C:\Windows\system32\cmd.exe - mysql -u root -p

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 (0.122 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

3. Hasil dari menampilkan jenis transaksi dan jumlah transaksi yg melakukan transaksi tanggal 21 November 2009.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi WHERE tanggal
= '2009-11-21' ORDER BY jumlah DESC;
+-----+-----+
| jenis_transaksi | jumlah |
+-----+-----+
| debit           | 40000  |
+-----+-----+
1 row in set (0.129 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

4. Hasil dari menampilkan nama nasabah, jenis transaksi dan jumlah dimana jumlah transaksi = Rp. 20.000.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> SELECT nama_nasabah, jenis_transaksi, jumlah FROM nasabah,
transaksi WHERE jumlah = 20000;
+-----+-----+-----+
| nama_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+
| Sutopo       | kredit         | 20000  |
| Maryati      | kredit         | 20000  |
| Suparman     | kredit         | 20000  |
| Kartika Padmasari | kredit       | 20000  |
| Budi Eko Prayogo | kredit       | 20000  |
| Satria Eka Jaya | kredit       | 20000  |
| Indri Hapsari | kredit       | 20000  |
| Sari Murti   | kredit       | 20000  |
| Canka Lokananta | kredit       | 20000  |
| Budi Murtono | kredit       | 20000  |
| Afrialdy     | kredit       | 20000  |
| Dwi          | kredit       | 20000  |
| Ghani Prasetia | kredit       | 20000  |
| Riyan Sutantio | kredit       | 20000  |
| Kevin Uitorio | kredit       | 20000  |
| Ade Pradana  | kredit       | 20000  |
| Nur Lutfi    | kredit       | 20000  |
| Askarim      | kredit       | 20000  |
| Rizqy Erdi   | kredit       | 20000  |
| Iqbal        | kredit       | 20000  |
| Sutopo       | debit         | 20000  |
| Maryati      | debit         | 20000  |
| Suparman     | debit         | 20000  |
| Kartika Padmasari | debit       | 20000  |
| Budi Eko Prayogo | debit       | 20000  |
| Satria Eka Jaya | debit       | 20000  |
| Indri Hapsari | debit       | 20000  |
| Sari Murti   | debit       | 20000  |
| Canka Lokananta | debit       | 20000  |
| Budi Murtono | debit       | 20000  |
| Afrialdy     | debit       | 20000  |
| Dwi          | debit       | 20000  |
| Ghani Prasetia | debit       | 20000  |
| Riyan Sutantio | debit       | 20000  |
| Kevin Uitorio | debit       | 20000  |
| Ade Pradana  | debit       | 20000  |
| Nur Lutfi    | debit       | 20000  |
| Askarim      | debit       | 20000  |
| Rizqy Erdi   | debit       | 20000  |
| Iqbal        | debit       | 20000  |
| Sutopo       | kredit       | 20000  |
| Maryati      | kredit       | 20000  |
| Suparman     | kredit       | 20000  |
| Kartika Padmasari | kredit       | 20000  |
| Budi Eko Prayogo | kredit       | 20000  |
| Satria Eka Jaya | kredit       | 20000  |
| Indri Hapsari | kredit       | 20000  |
| Sari Murti   | kredit       | 20000  |
| Canka Lokananta | kredit       | 20000  |
| Budi Murtono | kredit       | 20000  |
| Afrialdy     | kredit       | 20000  |
| Dwi          | kredit       | 20000  |
```

5. Hasil dari menampilkan nama nasabah dan alamat dimana nama nasabah diawali dengan kata 'Su'.

```
Administrator: C:\Windows\system32\cmd.exe - 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 (0.002 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

6. Hasil dari menampilkan tabel nasabah dimana nama nasabah "Nur Lutfi" dan alamat nasabah "Jl. Jambu 9".

```
Administrator: C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> SELECT * FROM nasabah WHERE nama_nasabah = 'Nur Lutfi' AND alamat_nasabah = 'Jl. Jambu 9';
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 17         | Nur Lutfi    | Jl. Jambu 9     |
+-----+-----+-----+
1 row in set (0.002 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

7. Hasil dari jika kita ingin menampilkan dimana kondisi jenis transaksi 'debit', tanggal '2009-11-19' dan jumlah '100000'.

```
Administrator: C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> SELECT * FROM transaksi WHERE jenis_transaksi = 'debit' AND tanggal = '2009-11-19' AND jumlah = '100000';
+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | 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      |              |               |                |          |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

8. Menampilkan tabel cabang\_bank dengan 2 baris setelah melewati 2 baris pertama.

```
Administrator: C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [perbankan]> SELECT * FROM cabang_bank ORDER BY kode_cabang LIMIT 2 OFFSET 2;
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUI        | Bank Rut Unit Indonesia | Jl. Merdeka 45 |
| BRUJ        | Bank Rut Unit Jember    | Jl. Dahlia 9   |
+-----+-----+-----+
2 rows in set (0.001 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

9. Hasil dari menampilkan tabel nasabah dengan kondisi STRING DAN NOT NULL.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> SELECT * FROM nasabah WHERE id_nasabah IS NOT NULL AND nama_nasabah LIKE '%Canka Lokananta%';
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
|          9 | Canka Lokananta | Jl. Tidar 86 |
+-----+-----+-----+
1 row in set (0.005 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```

10. Hasil dari menampilkan tabel nasabah dengan pencarian string dan null menggunakan klausa order, limit dan offset.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [perbankan]> SELECT * FROM nasabah WHERE nama_nasabah LIKE '%Ghani Prasetya%' OR alamat_nasabah IS NOT NULL ORDER BY nama_nasabah LIMIT 5 OFFSET 5;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
|          9 | Canka Lokananta | Jl. Tidar 86 |
|         12 | Dwi | Jl. Simo 42 |
|         13 | Ghani Prasetya | Jl. Sunggingan 21 |
|          7 | Indri Hapsari | Jl. Sutoyo 5 |
|         20 | Iqbal | Jl. Melati 58 |
+-----+-----+-----+
5 rows in set (0.002 sec)

MariaDB [perbankan]> Muhammad Azka Nur Lutfi L200180181
```