

Nama : Brian Aditya Hermansyah

NIM : L200180116

Kelas : C

## MODUL 6

## LATIHAN

```
Console - brianadit24@brianadit24-X550ZE: ~
File Edit View Terminal Tabs Help
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 21
Server version: 10.0.38-MariaDB-0ubuntu0.16.04.1 Ubuntu 16.04
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;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [perbankan]> SELECT nama_cabang, alamat_cabang FROM cabang_bank ORDER BY nama_cabang;
+-----+-----+
| nama_cabang | alamat_cabang |
+-----+-----+
| Bank Amal Aceh | Jl Abdul Hamid 37 |
| Bank Amal Bandung | Jl Mega jaya 101 |
| Bank Amal Boyolali | Jl Jambu 2 |
| Bank Amal Jakarta | Jl MT. Thamrin 21 |
| Bank Amal Kartasura | Jl Colomadu 22 |
| Bank Amal Magelang | Jl Suramadu 82 |
| Bank Amal Pati | Jl Kepatihan 77 |
| Bank Amal Surakarta | Jl Apel 3 |
| Bank Amal Wonogiri | Jl Madurasa 125 |
| Bank Amal Yogyakarta | Jl Ahmad Yani 17 |
| Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| Bank Rut Unit Klaten | Jl. Superman 23 |
| Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| Bank Rut Unit Wonogiri | Jl. Untung Suropati 12 |
| Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+
15 rows in set (0.00 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 |
| 104 | 4444 | 900000 |
| 103 | 3333 | 750000 |
| 110 | 1234 | 550000 |
| 121 | 6666 | 500000 |
| 101 | 1111 | 500000 |
| 123 | 8888 | 450000 |
| 122 | 7777 | 400000 |
| 102 | 2222 | 350000 |
| 112 | 0123 | 300000 |
| 117 | 2222 | 300000 |
| 113 | 8888 | 255000 |
| 118 | 3333 | 250000 |
| 116 | 1111 | 200000 |
| 115 | 4321 | 150000 |
| 111 | 4321 | 150000 |
| 114 | 1234 | 100000 |
| 119 | 4444 | 50000 |
| 120 | 5555 | 20000 |
| 109 | 9999 | 0 |
+-----+-----+-----+
23 rows in set (0.02 sec)

MariaDB [perbankan]>
```

# TUGAS

## Nomor 1.

```
Console - brianadit24@brianadit24-X550ZE: ~
File Edit View Terminal Tabs Help
brianadit24@brianadit24-X550ZE:~$ mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 22
Server version: 10.0.38-MariaDB-0ubuntu0.16.04.1 Ubuntu 16.04

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;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah;
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Ahmad Zaki   | Jl Tendean 5   |
| Andi         | Jl Hasanudin 25 |
| Budi Eko Prayogo | Jl. Kantil 30 |
| Budi Kariadi | Jl Kariadi 9   |
| Budi Murtono | Jl. Merak 22   |
| Burhan       | Jl Suramadu 102 |
| Candra       | Jl Marwan 63   |
| Canka Lokananta | Jl. Tidar 86 |
| Izul         | Jl Kemangi 32  |
| Kartika Padmasari | Jl. Manggis 15 |
| Maryati      | Jl. MT. Haryono 31 |
| Sari         | Jl Bandung 1   |
| Sari Murti   | Jl. Pangandaran 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Superman     | Jl. Hasanudin 81 |
| Sutopo       | Jl. Jendral Sudirman 12 |
| Syamsudin    | Jl Ahmad Yani 10 |
| Udin         | Jl Honggowongso 21 |
| Zaki Izudin  | Jl Merak 43    |
+-----+-----+
19 rows in set (0.00 sec)
```

## Nomor 2.

The screenshot shows a terminal window titled "Console - brianadit24@brianadit24-X550ZE: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal displays a SQL query and its results:

```
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	200000
kredit	100000
kredit	75000
kredit	250000
kredit	150000
kredit	50000
kredit	200000
kredit	250000

22 rows in set (0.00 sec)

MariaDB [perbankan]>

In the background, a MariaDB GUI window is visible, showing the "Server Overview" tab with options like "Change password", "Server connection collation" (set to utf8mb4\_unicode\_ci), and "Appearance settings" (Language: English, Theme: pmahomme, Font size: 82%).

## Nomor 3.

The screenshot shows a terminal window titled "Console - brianadit24@brianadit24-X550ZE: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal displays a SQL query and its results:

```
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 (0.00 sec)

MariaDB [perbankan]>

In the background, a MariaDB GUI window is visible, showing the "Server Overview" tab with options like "Browse", "Structure", "SQL", "Search", "Insert", "Export", and "Import".

## Nomor 4.

Console - brianadit24@brianadit24-X550ZE: ~

File Edit View Terminal Tabs Help

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
Sari Murti	kredit	20000
Canka Lokananta	kredit	20000
Budi Murtono	kredit	20000
Andi	kredit	20000
Udin	kredit	20000
Syamsudin	kredit	20000
Ahmad Zaki	kredit	20000
Burhan	kredit	20000
Izul	kredit	20000
Sari	kredit	20000
Budi Kariadi	kredit	20000
Zaki Izudin	kredit	20000
Candra	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
Sari Murti	debit	20000
Canka Lokananta	debit	20000
Budi Murtono	debit	20000
Andi	debit	20000
Udin	debit	20000
Syamsudin	debit	20000
Ahmad Zaki	debit	20000
Burhan	debit	20000
Izul	debit	20000
Sari	debit	20000
Budi Kariadi	debit	20000
Zaki Izudin	debit	20000
Candra	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
Sari Murti	kredit	20000
Canka Lokananta	kredit	20000
Budi Murtono	kredit	20000
Andi	kredit	20000
Udin	kredit	20000
Syamsudin	kredit	20000
Ahmad Zaki	kredit	20000
Burhan	kredit	20000
Izul	kredit	20000
Sari	kredit	20000
Budi Kariadi	kredit	20000
Zaki Izudin	kredit	20000
Candra	kredit	20000
Sutopo	debit	20000
Maryati	debit	20000
Suparman	debit	20000



## Nomor 5.

```
Console - brianadit24@brianadit24-X550ZE: ~
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 (0.00 sec)
```

## Nomor 6.

Tampilkan nama nasabah dan alamat nasabah yang dimana memiliki awalan nama "Su" atau berakhiran nama "in"

```
Console - brianadit24@brianadit24-X550ZE: ~
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah WHERE nama_nasabah LIKE 'Su%' OR nama_nasabah ILIKE '%in';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'OR nama_nasabah ILIKE '%in'' at line 1
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah WHERE nama_nasabah LIKE 'Su%' OR nama_nasabah LIKE '%in';
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Sutopo       | Jl. Jendral Sudirman 12 |
| Suparman     | Jl. Hasanudin 81 |
| Udin         | Jl. Honggowongso 21 |
| Syamsudin    | Jl. Ahmad Yani 10 |
| Zaki Izudin  | Jl. Merak 43 |
+-----+-----+
5 rows in set (0.00 sec)
```

## Nomor 7.

Tampilkan nama nasabah dan alamat nasabah yang dimana memiliki awalan nama "Su" atau berakhiran nama "in" atau beralamat dengan nama "Kantil"

```
Console - brianadit24@brianadit24-X550ZE: ~
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah WHERE nama_nasabah LIKE 'Su%' OR nama_nasabah LIKE '%in' OR alamat_nasabah LIKE '%Kantil%';
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Sutopo       | Jl. Jendral Sudirman 12 |
| Suparman     | Jl. Hasanudin 81 |
| Budi Eko Prayogo | Jl. Kantil 30 |
| Udin         | Jl. Honggowongso 21 |
| Syamsudin    | Jl. Ahmad Yani 10 |
| Zaki Izudin  | Jl. Merak 43 |
+-----+-----+
6 rows in set (0.00 sec)
```

## Nomor 8.

Tampilkan id nasabah, nama nasabah, alamat nasabah diurutkan dengan id nasabah dan menampilkan 5 daftar setelah baris kedua

```
Console - brianadit24@brianadit24-X550ZE: ~
MariaDB [perbankan]> SELECT id_nasabah, nama_nasabah, alamat_nasabah FROM nasabah ORDER BY id_nasabah LIMIT 5 OFFSET 2;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 3          | Suparman     | Jl. Hasanudin 81 |
| 4          | Kartika Padmasari | Jl. Manggis 15 |
| 5          | Budi Eko Prayogo | Jl. Kantil 30 |
| 6          | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8          | Sari Murti    | Jl. Pangandaran 11 |
+-----+-----+-----+
5 rows in set (0.01 sec)
```

### Nomor 9.

Tampilkan no rekening yang memiliki pin dengan angka 1 dan 2 dan saldo tidak NULL

```
Console - brianadit24@brianadit24-X550ZE: ~
File Edit View Terminal Tabs Help
5 rows in set (0.00 sec)
MariaDB [perbankan]> SELECT no_rekening FROM rekening WHERE pin LIKE '%1%' AND pin LIKE '%2%' AND saldo IS NOT NULL;
+-----+
| no_rekening |
+-----+
| 110         |
| 111         |
| 112         |
| 114         |
| 115         |
+-----+
5 rows in set (0.00 sec)
MariaDB [perbankan]>
```

### Nomor 10.

Tampilkan no rekening yang dimana mengandung angka pin 1 dan 2 dan saldo tidak NULL, diurutkan berdasarkan no rekening yang menampilkan 3 saja dan setelah melewati baris 2

```
Console - brianadit24@brianadit24-X550ZE: ~
File Edit View Terminal Tabs Help
3 rows in set (0.00 sec)
MariaDB [perbankan]> SELECT no_rekening FROM rekening WHERE pin LIKE '%1%' AND pin LIKE '%2%' AND saldo IS NOT NULL ORDER
BY No_rekening LIMIT 3 OFFSET 2;
+-----+
| no_rekening |
+-----+
| 112         |
| 114         |
| 115         |
+-----+
3 rows in set (0.00 sec)
MariaDB [perbankan]>
```

### Nomor 11.

1. Tampilkan pencarian nama\_nasabah dengan string “ Su”

```
Console - brianadit24@brianadit24-X550ZE: ~
File Edit View Terminal Tabs Help
MariaDB [perbankan]> SELECT nama_nasabah FROM nasabah WHERE nama_nasabah LIKE '%su%';
+-----+
| nama_nasabah |
+-----+
| Sutopo       |
| Superman     |
| Syamsudin    |
+-----+
3 rows in set (0.01 sec)
MariaDB [perbankan]>
```



5. Tampilkan transaksi nasabah yang berasal dari cabang\_bank boyolali dan surakarta

```
Console - brianadit24@brianadit24-X550ZE: ~
File Edit View Terminal Tabs Help

MariaDB [perbankan]> SELECT jenis_transaksi FROM transaksi, rekening, nasabah has rekening WHERE kode cabangFK in ('BRUS', 'BRUB')
-> AND transaksi.no_rekeningFK = nasabah_has_rekening.no_rekeningFK AND nasabah_has_rekening.no_rekeningFK = rekening.no_rekening;

+-----+
| jenis_transaksi |
+-----+
| debit           |
| kredit          |
| debit           |
| kredit          |
| kredit          |
| debit           |
| debit           |
| debit           |
| kredit          |
| kredit          |
| kredit          |
| debit           |
| debit           |
| kredit          |
| kredit          |
| debit           |
| debit           |
| kredit          |
| kredit          |
| debit           |
| kredit          |
| debit           |
| debit           |
+-----+

24 rows in set (0.00 sec)

MariaDB [perbankan]>
```