

LAPORAN PRAKTIKUM SISTEM BASIS DATA

MODUL 6

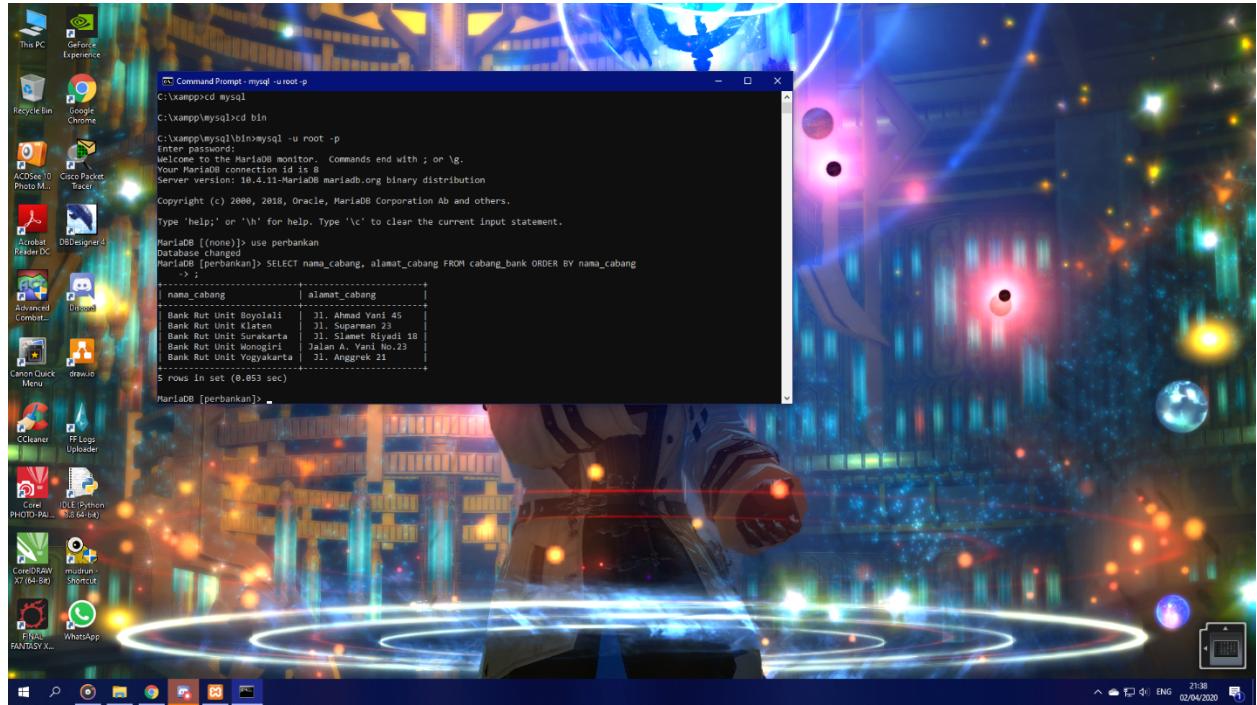
Nama : Muhammad Ridwan NurFarizi

NIM : L200180020

Kelas : B

Latihan

1. Menampilkan nama bank dan alamat bank yang diurutkan berdasarkan nama bank



```
Command Prompt - mysql -u root -p
C:\xampp>cd mysql
C:\xampp\mysql>cd 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 Rtu Unit Boyolali | Jl. Ahmad Yani 45 |
| Bank Rtu Unit Jaten | Jl. Sugarno 10 |
| Bank Rtu Unit Samarinda | Jl. Sultan Riyadi 18 |
| Bank Rtu Unit Monogiri | Jalan A. Vani No.23 |
| Bank Rtu Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+
5 rows in set (0.053 sec)

MariaDB [perbankan]>
```

2. Menampilkan nomor rekening, pin, dan jumlah saldo yang diurutkan berdasarkan jumlah saldo dari yang paling besar ke yang paling kecil



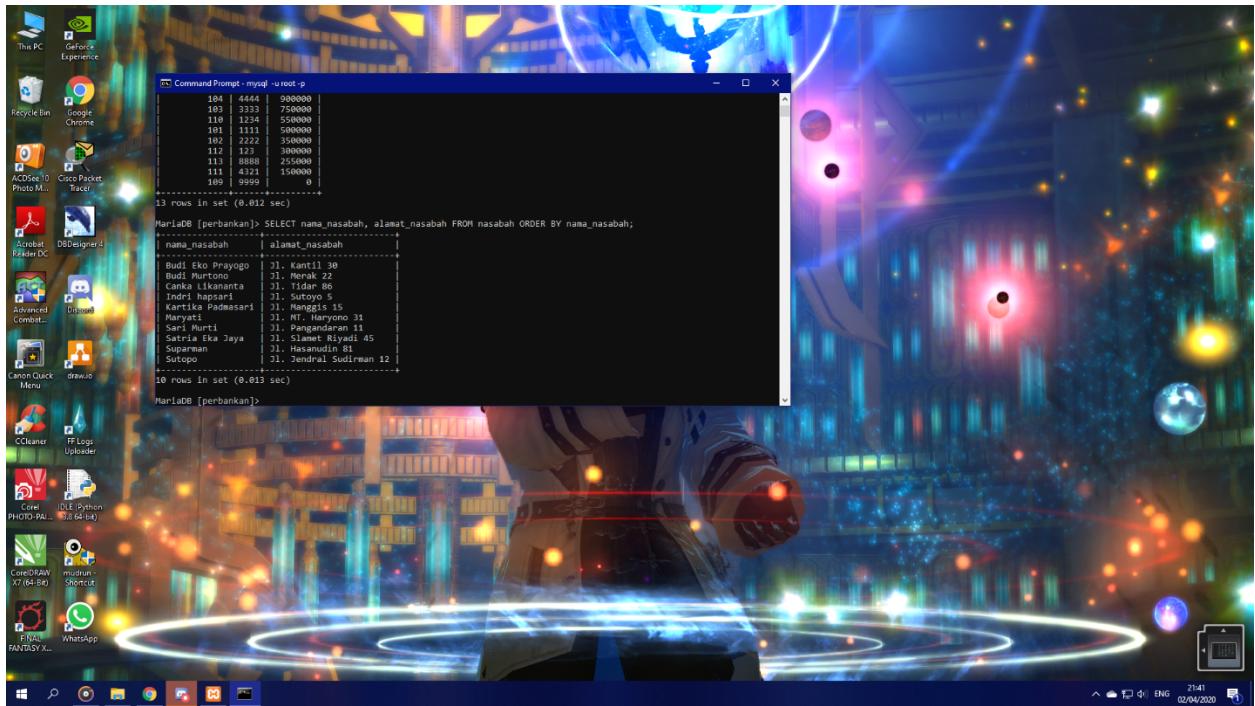
```
Command Prompt - mysql -u root -p
+-----+-----+-----+
| Bank Rut Unit Boyolali | Jl. Ahmad Yani 05
| Bank Rut Unit Bogor | Jl. Suparmi 12
| Bank Rut Unit Surakarta | Jl. Syarif Riyadi 18
| Bank Rut Unit Monogiri | Jalan A. Van No.23
| Bank Rut Unit Yogyakarta | Jl. Anggrek 21
+-----+-----+-----+
5 rows in set (0.093 sec)

MariaDB [perbankan]> SELECT no_rekening, pin, saldo FROM rekening ORDER BY saldo DESC;
+-----+-----+-----+
| no_rekening | pin | saldo |
+-----+-----+-----+
| 108 | 6666 | 5000000
| 109 | 6666 | 4000000
| 105 | 5555 | 2000000
| 107 | 7777 | 1000000
| 104 | 4444 | 900000
| 113 | 1234 | 800000
| 110 | 1234 | 550000
| 101 | 1111 | 500000
| 109 | 6666 | 350000
| 113 | 1234 | 250000
| 111 | 8888 | 250000
| 111 | 4321 | 150000
| 109 | 9999 | 0
+-----+-----+-----+
13 rows in set (0.012 sec)

MariaDB [perbankan]>
```

TUGAS

1. Tampilkan nama nasabah dan alamat nasabah diurutkan berdasarkan nama nasabah!



```
184 | 4444 | 980000 |
103 | 3333 | 750000 |
110 | 1111 | 500000 |
101 | 1111 | 500000 |
102 | 2222 | 350000 |
112 | 123 | 300000 |
113 | 3338 | 250000 |
111 | 4321 | 150000 |
109 | 9999 | 0 |

13 rows in set (0.012 sec)

MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah;

+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Budd Eko Prayogo | Jl. Kantil 30 |
| Budi Murtono | Jl. Merak 22 |
| Dwi Sugiharto | Jl. Sidoarjo 80 |
| Indri hapsoari | Jl. Sutoyo 5 |
| Kartika Pademasari | Jl. Manggis 15 |
| Marita | Jl. M. Hatta 33 |
| Muliadi Murti | Jl. Pangeran Diponegoro 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Suparmen | Jl. Hasanudin 81 |
| Sutopo | Jl. Jendral Sudirman 12 |

10 rows in set (0.013 sec)

MariaDB [perbankan]>
```

2. Tampilkan jenis transaksi dan jumlah transaksi dimana jenis transaksinya adalah kredit!



```
1 MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi ORDER BY jenis_transaksi DESC;

+-----+-----+
| jenis_transaksi | jumlah |
+-----+-----+
| kredit | 200000 |
| kredit | 200000 |
| kredit | 100000 |
| kredit | 100000 |
| kredit | 200000 |
| kredit | 50000 |
| kredit | 100000 |
| kredit | 100000 |
| kredit | 200000 |
| kredit | 200000 |
| kredit | 30000 |
| kredit | 100000 |
| debit | 100000 |
| debit | 20000 |
| debit | 50000 |
| debit | 50000 |
| debit | 20000 |
| debit | 100000 |
| debit | 100000 |

20 rows in set (0.012 sec)

MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi ORDER BY jenis_transaksi DESC;
```

3. Tampilkan jenis transaksi dan jumlah transaksi yang melakukan transaksi pada tanggal 21 November 2009 dan diurutkan berdasarkan jumlah transaksi!

```
C:\>cdxampp
C:\xampp>cdmysql
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 jenis_transaksi, jumlah FROM transaksi WHERE tanggal='2009-11-21' ORDER BY jumlah;
Empty set (0.000 sec)

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 (0.000 sec)
```

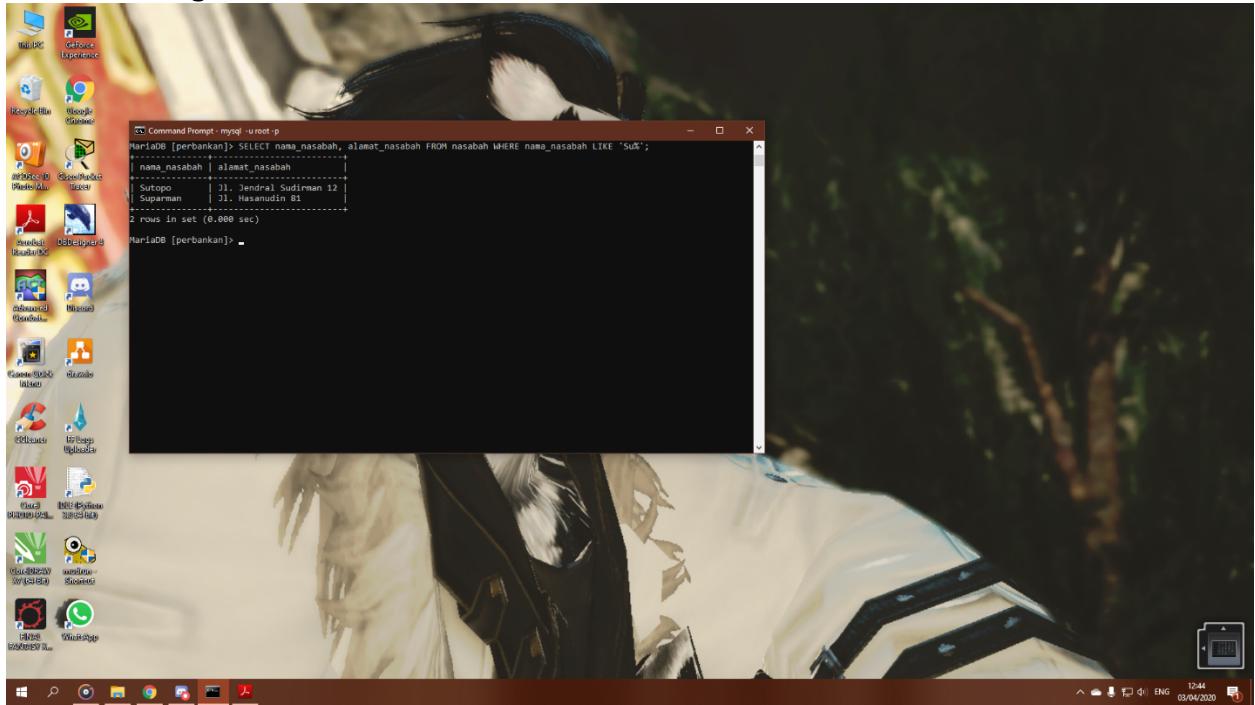
jenis_transaksi	jumlah
debit	40000

4. Tampilkan nama nasabah, jenis transaksi dan jumlah transaksi dimana jumlah transaksi = Rp20.000!

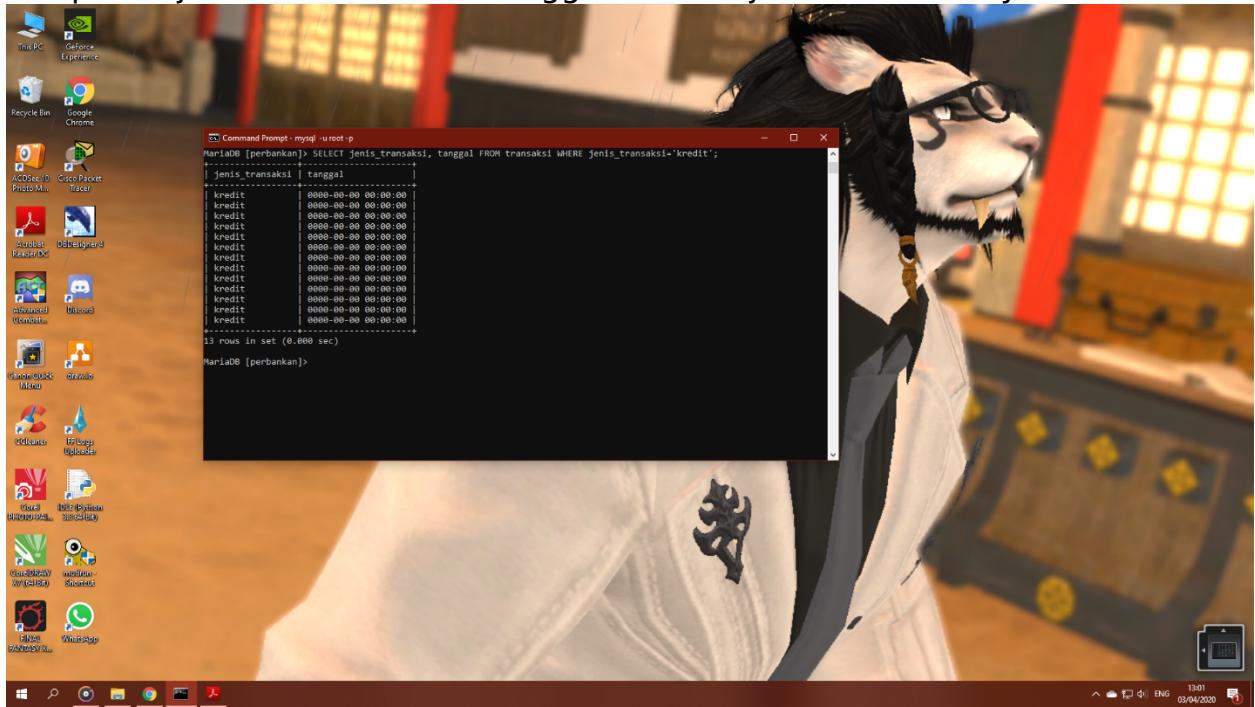
```
1 row in set (0.000 sec)

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 Padmarsi | kredit | 20000 |
| Budi Eko Prayogo | kredit | 20000 |
| Satria Eka Jaya | kredit | 20000 |
| Indrihapsari | kredit | 20000 |
| Sari Munti   | kredit | 20000 |
| Canka Likananta | kredit | 20000 |
| Budi Murtono | kredit | 20000 |
| Sutopo      | debit          | 20000 |
| Maryati     | debit          | 20000 |
| Suparman   | debit          | 20000 |
| Kartika Padmarsi | debit | 20000 |
| Budi Eko Prayogo | debit | 20000 |
| Satria Eka Jaya | debit | 20000 |
| Indrihapsari | debit | 20000 |
| Sari Munti   | debit | 20000 |
| Canka Likananta | debit | 20000 |
| Budi Murtono | debit | 20000 |
| Sutopo      | kredit         | 20000 |
| Maryati     | kredit         | 20000 |
| Suparman   | kredit         | 20000 |
| Kartika Padmarsi | kredit | 20000 |
| Budi Eko Prayogo | kredit | 20000 |
| Satria Eka Jaya | kredit | 20000 |
| Indrihapsari | kredit | 20000 |
| Sari Munti   | kredit | 20000 |
| Canka Likananta | kredit | 20000 |
| Budi Murtono | kredit | 20000 |
| Sutopo      | debit          | 20000 |
| Maryati     | debit          | 20000 |
| Suparman   | debit          | 20000 |
| Kartika Padmarsi | debit | 20000 |
| Budi Eko Prayogo | debit | 20000 |
| Satria Eka Jaya | debit | 20000 |
| Indrihapsari | debit | 20000 |
| Sari Munti   | debit | 20000 |
| Canka Likananta | debit | 20000 |
| Budi Murtono | debit | 20000 |
+-----+-----+-----+
```

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



6. Tampilkan jenis transaksi dan tanggal dimana jenis transaksinya kredit



7. Tampilkan jenis transaksi, tanggal, jumlah dimana jumlahnya Rp50.000

```
mysql -u root -p
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 ORDER BY id_nasabah LIMIT 1 OFFSET 2;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 3 | Supaman | Jl. Hasanudin 81 |
+-----+-----+-----+
1 row in set (0.019 sec)

MariaDB [perbankan]> SELECT jenis_transaksi, tanggal, jumlah FROM transaksi WHERE jumlah=50000;
+-----+-----+-----+
| jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+
| debit | 2020-11-10 00:00:00 | 50000 |
| kredit | 0000-00-00 00:00:00 | 50000 |
| debit | 2020-11-10 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| kredit | 0000-00-00 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
+-----+-----+-----+
8 rows in set (0.018 sec)

MariaDB [perbankan]>
```

8. Tampilkan nasabah yang diurutkan berdasarkan id nasabah dimana LIMIT 1 dan OFFSET 2

```
cd
C:\>cd xampp
C:\xampp>cd mysql
C:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Your MySQL 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 * FROM nasabah ORDER BY id_nasabah LIMIT 1 OFFSET 2;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 3 | Supaman | Jl. Hasanudin 81 |
+-----+-----+-----+
1 row in set (0.019 sec)

MariaDB [perbankan]>
```

9. Tampilkan rekening dimana pin adalah NULL

```
MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> SELECT * FROM nasabah ORDER BY id_nasabah LIMIT 1 OFFSET 2;
+----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+----+-----+-----+
| 3 | Suparman | Jl. Hasanudin 81 |
+----+-----+-----+
1 row in set (0.019 sec)

MariaDB [perbankan]> SELECT jenis_transaksi, tanggal, jumlah FROM transaksi WHERE jumlah=50000;
+-----+-----+-----+
| jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+
| debit | 2009-11-10 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| kredit | 0000-00-00 00:00:00 | 50000 |
| debit | 2009-11-10 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| kredit | 0000-00-00 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
+-----+-----+-----+
8 rows in set (0.018 sec)

MariaDB [perbankan]> SELECT * FROM rekening WHERE pin IS NULL;
Empty set (0.018 sec)

MariaDB [perbankan]>
```

10. Tampilkan nasabah dimana Namanya NULL yang diurutkan oleh id nasabah dengan LIMIT 2 dan OFFSET 2

```
MariaDB [perbankan]> SELECT * FROM nasabah ORDER BY id_nasabah LIMIT 1 OFFSET 2;
+----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+----+-----+-----+
| 3 | Suparman | Jl. Hasanudin 81 |
+----+-----+-----+
1 row in set (0.019 sec)

MariaDB [perbankan]> SELECT jenis_transaksi, tanggal, jumlah FROM transaksi WHERE jumlah=50000;
+-----+-----+-----+
| jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+
| debit | 2009-11-10 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| kredit | 0000-00-00 00:00:00 | 50000 |
| debit | 2009-11-10 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| kredit | 0000-00-00 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
| debit | 0000-00-00 00:00:00 | 50000 |
+-----+-----+-----+
8 rows in set (0.010 sec)

MariaDB [perbankan]> SELECT * FROM rekening WHERE pin IS NULL;
Empty set (0.018 sec)

MariaDB [perbankan]> SELECT * FROM nasabah WHERE nama_nasabah IS NULL ORDER BY id_nasabah LIMIT 2 OFFSET 2;
Empty set (0.008 sec)

MariaDB [perbankan]>
```

11. Tampilkan nim dan nama mahasiswa yang diurutkan dari nim

```
C:\xampp\mysql\bin>mysql -uroot -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 23
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 perkuliahan
Database changed
MariaDB [perkuliahan]> SELECT nim, nama_mahasiswa FROM mahasiswa ORDER BY nim;
+-----+-----+
| nim | nama_mahasiswa |
+-----+-----+
| L200180001 | Andi |
| L200180002 | Jake |
| L200180003 | Bernold |
| L200180004 | Sam |
| L200180005 | Tlami |
| L200180006 | Riska |
| L200180007 | Anzel |
| L200180008 | Neel |
| L200180009 | Aero |
| L200180020 | Faris |
+-----+-----+
10 rows in set (0.000 sec)

MariaDB [perkuliahan]>
```

12. Tampilkan nama dosen dan alamat dimana nama dosennya adalah 'Ignis'

```
C:\xampp\mysql\bin>mysql -uroot -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 23
Server version: 10.4.11-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

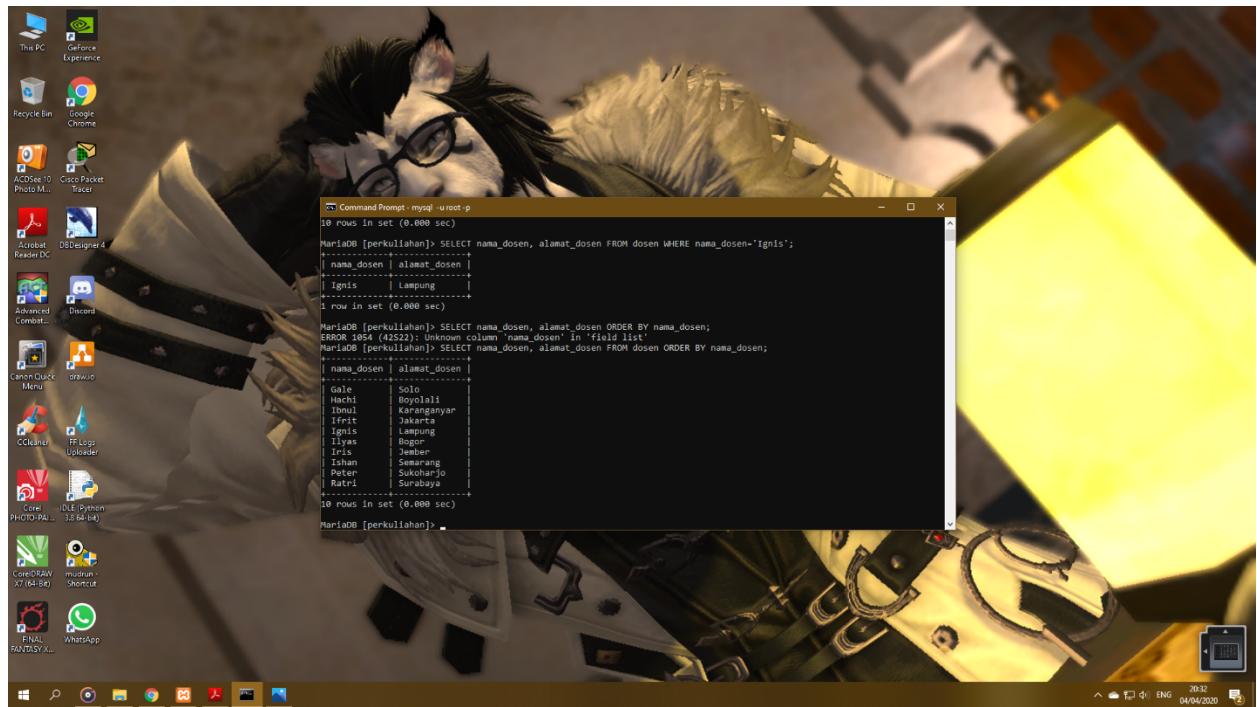
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perkuliahan
Database changed
MariaDB [perkuliahan]> SELECT nim, nama_mahasiswa FROM mahasiswa ORDER BY nim;
+-----+-----+
| nim | nama_mahasiswa |
+-----+-----+
| L200180001 | Andi |
| L200180002 | Jake |
| L200180003 | Bernold |
| L200180004 | Sam |
| L200180005 | Tlami |
| L200180006 | Riska |
| L200180007 | Anzel |
| L200180008 | Neel |
| L200180009 | Aero |
| L200180020 | Faris |
+-----+-----+
10 rows in set (0.000 sec)

MariaDB [perkuliahan]> SELECT nama_dosen, alamat_dosen FROM dosen WHERE nama_dosen='Ignis';
+-----+-----+
| nama_dosen | alamat_dosen |
+-----+-----+
| Ignis      | Lampung   |
+-----+-----+
1 row in set (0.000 sec)

MariaDB [perkuliahan]>
```

13. Tampilkan nama dosen dan alamat dosen yang diurutkan dari nama dosen



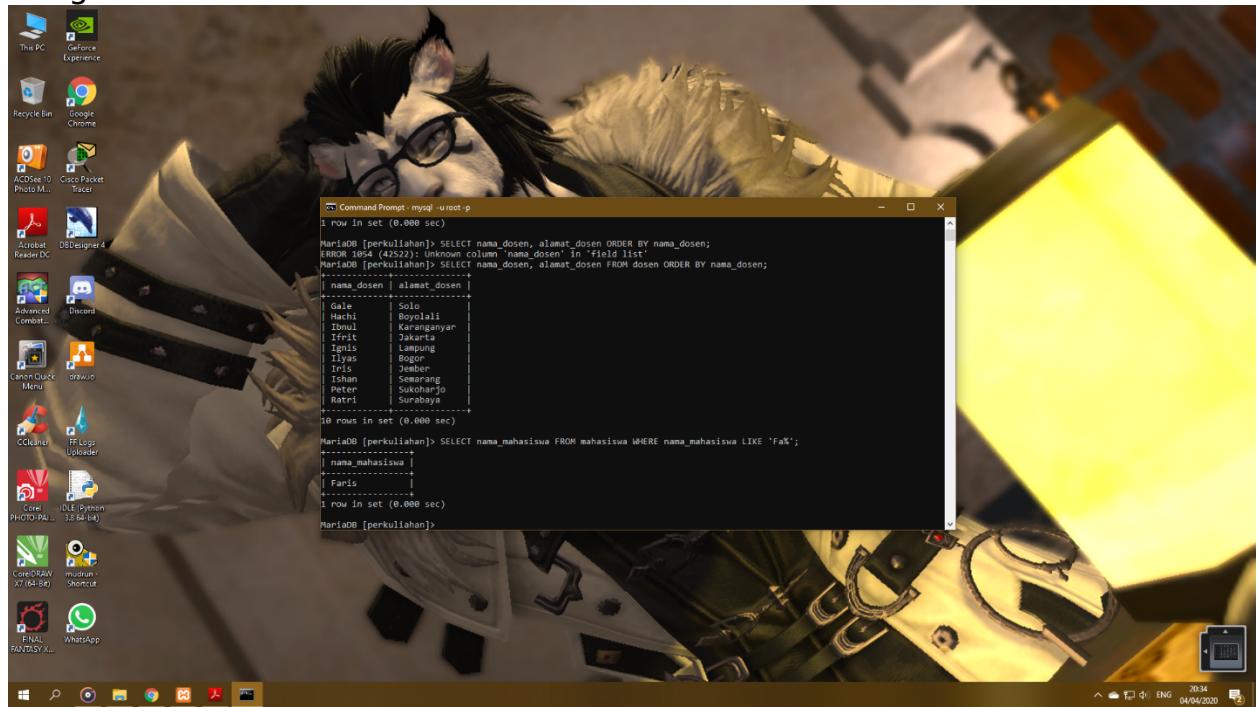
```
mysql -uroot -p
10 rows in set (0.000 sec)

MariaDB [perkuliahan]> SELECT nama_dosen, alamat_dosen FROM dosen WHERE nama_dosen='Ignis';
+-----+-----+
| nama_dosen | alamat_dosen |
+-----+-----+
| Ignis      | Lampung    |
+-----+-----+
1 row in set (0.000 sec)

MariaDB [perkuliahan]> SELECT nama_dosen, alamat_dosen ORDER BY nama_dosen;
ERROR 1054 (42S22): Unknown column 'nama_dosen' in 'field list'
MariaDB [perkuliahan]> SELECT nama_dosen, alamat_dosen FROM dosen ORDER BY nama_dosen;
+-----+-----+
| nama_dosen | alamat_dosen |
+-----+-----+
| Gale       | Solo        |
| Hachi     | Boyolali   |
| Ibu       | Karanganyar |
| Ifrit     | Jakarta    |
| Ignis     | Lampung    |
| Ilyas     | Bogor      |
| Iris      | Bandung   |
| Ishan     | Semarang   |
| Peter     | Sukoharjo  |
| Ratni     | Surabaya   |
+-----+-----+
10 rows in set (0.000 sec)

MariaDB [perkuliahan]>
```

14. Tampilkan nama mahasiswa dimana nama mahasiswa diawali dengan kata 'Fa'



```
mysql -uroot -p
1 row in set (0.000 sec)

MariaDB [perkuliahan]> SELECT nama_dosen, alamat_dosen ORDER BY nama_dosen;
ERROR 1054 (42S22): Unknown column 'nama_dosen' in 'field list'
MariaDB [perkuliahan]> SELECT nama_dosen, alamat_dosen FROM dosen ORDER BY nama_dosen;
+-----+-----+
| nama_dosen | alamat_dosen |
+-----+-----+
| Gale       | Solo        |
| Hachi     | Boyolali   |
| Ibu       | Karanganyar |
| Ifrit     | Jakarta    |
| Ignis     | Lampung    |
| Ilyas     | Bogor      |
| Iris      | Bandung   |
| Ishan     | Semarang   |
| Peter     | Sukoharjo  |
| Ratni     | Surabaya   |
+-----+-----+
10 rows in set (0.000 sec)

MariaDB [perkuliahan]> SELECT nama_mahasiswa FROM mahasiswa WHERE nama_mahasiswa LIKE 'Fa%';
+-----+
| nama_mahasiswa |
+-----+
| Faris          |
+-----+
1 row in set (0.000 sec)

MariaDB [perkuliahan]>
```

15. Tampilkan id dosen dan nim mahasiswa dimana yang diajar oleh id dosen 'K001'

```
mysql -u root -p
| Ibu | Kediri |
| Tri | Jakarta |
| Ignis | Lampung |
| Ilyas | Bogor |
| Huda | Surabaya |
| Ishan | Semarang |
| Peter | Sukoharjo |
| Ratri | Surabaya |
10 rows in set (0.000 sec)

MariaDB [perkuliahann]> SELECT nama_mahasiswa FROM mahasiswa WHERE nama_mahasiswa LIKE 'Fa%';
| nama_mahasiswa |
| Faris |
1 row in set (0.000 sec)

MariaDB [perkuliahann]> SELECT id_dosenFK, nimFK FROM dosen_mengajar_mahasiswa WHERE id_dosenFK='K001';
| id_dosenFK | nimFK |
| K001 | L2001880002 |
| K001 | L2001880003 |
| K001 | L2001880004 |
3 rows in set (0.001 sec)

MariaDB [perkuliahann]>
```