## PRACTICUM DATABASE SYSTEM

# MODUL 6

## DATABASE SYSTEM



By:

Donny Rizal Adhi Pratama

L200183161

INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATIC

MUHAMMADIYAH UNIVERSITY OF SURAKARTA

```
XAMPP for Windows - mysql -u root
MariaDB [perbankan]> select nama_cabang, alamat_cabang from cabang_bank order by nama_cabang;
 nama_cabang
                           alamat_cabang
 Bank Rut Unit Aljazaier
                             Jl. Indonesia no. 12
 Bank Rut Unit Bandungan
                             Jl. Hebohhhhh no. 12
                             Jl. Ahmad Yani 45
 Bank Rut Unit Boyolali
 Bank Rut Unit Cirebon
                             Jl. Pemuda no. 12
 Bank Rut Unit Himalaya
                             Nepal Street no. 13
                             Jl. Tugu Pemuda no. 21
 Bank Rut Unit Jakarta
 Bank Rut Unit Jambi
                             Jl. Kelok Sembian no. 12
 Bank Rut Unit Klate
                             Jl. Suparman 23
 Bank Rut Unit Lamongan
                             Jl. Laksana Maeda no. 2
 Bank Rut Unit Malang
                             Jl. Batu no. 12
 Bank Rut Unit Pati
                             Jl. Pati-Kudu no. 1
                             Jl. Gajah Mada no. 12
 Bank Rut Unit Rembang
 Bank Rut Unit Surakarta
                             Jl. Slamet Riyadi 18
 Bank Rut Unit Wonogiri
                             Jalan A. Yani No. 23
 Bank Rut Unit Yogyakarta |
                             Jl. Anggrek 21
15 rows in set (0.001 sec)
MariaDB [perbankan]> select no_rekening, pin, saldo from rekening order by saldo desc;
 no_rekening | pin
                        saldo
                          2147483647
          124 I
               8284823
                            64088829
                13428
         120
                222228
                            24100000
                            12521242
                69872
                             8600000
                08778
                             8183900
          103
                             7500000
               622088
                             5000000
          108
                0000
                             5000000
          106
                6666
                             3000000
                             2027400
                725724
                             1000000
                627428
                              999999
          114
                62525
                              900129
          104
                4444
                              900000
          119
                6224
                              700024
                              550000
          110
                1234
                              500000
          101
          102
                              350000
                              300000
          112
                8888
                              255000
          105
                              200000
                              150000
          109
                9999
```

Pict 1. Latian brooo

#### Number 1.

```
XAMPP for Windows - mysql -u root
Setting environment for using XAMPP for Windows.
donny@DONNY c:\xampp
mysql -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
our 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]> show tables;
 Tables_in_perbankan
 cabang_bank
 nasabah
 nasabah_has_rekening
 rekening
 transaksi
 rows in set (0.005 sec)
MariaDB [perbankan]> select nama_nasabah, alamat_nasabah from nasabah order by nama_nasabah;
                   | alamat_nasabah
 nama_nasabah
 Budi Eko Prayoga | JL.Kantil 30
 Budi Murtono
                     Jl. Merak 22
                    | Jl. Tidar 95
| Jl. Noname Street no. 32
 Canka Lokonanta
 Donny Rizal | Jl. Noname St
Kartika Padmasari | JL.Manggis 15
 LeBron James
                     Jl. Davie 504
 Lonzo Ball
                   Brindgam inhsa street no. 58
 Luka Doncic
                   Noname Street 12
                    JL.MT.Haryono 31
 Maryati
 Ryota
Sari Murti
                    | Jl. Slamet Riyadi no. 21
                    | Jl. Pangandaran 11
 Satria Eka Jaya | Jl. Slamet Riyadi 45
                    JL.Hasanudin 81
 Suparman
                     Jl. Jendral Sudirman
 Takahiro Moriuchi | Akibahara Street no. 12, Los Angeles
 Takeru Satoh
                    | Jl. Gajah Mada no. 5
 Tomoya Kanki
                    Jl. Panglima Soedirman no. 13
                   Yoroponggi Street no. 99
 Toru Yamashita
 Trae Young
                     Not Applicable Street no. 2
 Zion Williamson
                    New Orleans Pelican no. 24
20 rows in set (0.035 sec)
```

Pict 2. Nama nasabah dan alamat nasabah order by nama nasabah

### Number 2.

```
XAMPP for Windows - mysql -u root
ariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where jenis_transaksi = 'kredit';
 jenis_transaksi | jumlah
 kredit
 kredit
                      30000
 kredit
                     200000
 kredit
                     150000
 kredit
                      50000
 kredit
                     200000
 kredit
                      20000
 kredit
                      50000
 kredit
                     200000
 kredit
                     100000
 kredit
                     100000
 kredit
                     200000
 kredit
                     205000
 kredit
                    1600000
 kredit
                     500000
 kredit
                      50000
 kredit
                    1030000
7 rows in set (0.008 sec)
```

Pict 3. Jenis transaksi and jumlah transaksi where jenis transaksi = kredit

```
ariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where tanggal = '2020-03-29 20:51:26' order by jumlah;
jenis_transaksi | jumlah |
debit
                          20000
20000
20000
20000
20000
30000
40000
kredit
debit
kredit
kredit
debit
                          40000
50000
50000
50000
debit
debit
debit
debit
kredit
debit
debit
kredit
debit
debit
debit
kredit
                         100000
100000
                         100000
                         100000
debit
kredit
kredit
kredit
kredit
0 rows in set (0.000 sec)
```

Pict 4. Jenis transaksi and jumlah transaksi where tanggal '2020-03-29 20:51:26'

#disclaimer: since I used datetime and default set null and I took a code 'null' before in the modul-5 and I change the way book teaches us.

#### Number 4.

nama_nasabah   jenis_transaksi   jumlah     Kartika Padmasari   kredit   20000     Budi Eko Prayoga   debit   20000     Kartika Padmasari   kredit   20000     Budi Eko Prayoga   debit   20000	MariaDB [perbankan]> select nama_nasaba		transaksi where jumlah = 20000 and na	sabah.id_nasabah = transaksi.no_rekeningFK;
Kartika Padmasari   kredit   20000     Budi Eko Prayoga   debit   20000     Kartika Padmasari   kredit   20000     Budi Eko Prayoga   debit   20000	nama_nasabah   jenis_transaksi	jumlah		
	Kartika Padmasari   kredit   Budi Eko Prayoga   debit   Kartika Padmasari   kredit	20000     20000     20000		

Pict 5. Nama nasabah, jenis transaksi and jumlah transaksi where jumlah transaksi = 20000 and nasabah.id\_nasabah = transaksi.no\_rekeningFK

#### Number 5.

Pict 6. Nama\_nasabah, alamat\_nasabah where nama anasabah like Su

#### Number 6.

Pict 7. Nama nasabah, alamat nasabah from nasabah where like su or on

## Number 7.

```
MariaDB [perbankan]> select nama_nasabah, alamat_nasabah from nasabah where nama_nasabah like '%ta' or nama_nasabah like '%ru' or alamat_nasabah like '%gajah';

| nama_nasabah | alamat_nasabah |
| Canka Lokonanta | Jl. Tidar 95 |
| Toru Yamashita | Yoroponggi Street no. 99 |
| 2 rows in set (0.001 sec)
```

Pict 8. nama nasabah, alamat nasabah from nasabah where nama nasabah like ta or ru or gajah on alamat nasabah

## Number 8.

Pict 9. Id nasbah, nama nasabah, alamat nasabah from nasabah order by id nasabah limit 5 offset 2

### Number 9.

Explain no rekening that has pin int 1 AND 2 AND saldo is not null

Pict 10. Number 9

### Number 10.

explain no rekening where pin int 1 AND 2 AND not null order by no rekening show only limit 3 after row 2

```
MariaDB [perbankan]> select no_rekening from rekening where pin like '%1' or pin like '%2' and saldo is not null order by no_rekening limit 3 offset 2;

| no_rekening |
| 111 |
| 123 |
| 2 rows in set (0.001 sec)

MariaDB [perbankan]> _
```

Pict 11. Number 10

### Number 11.

a. Make command to find nama\_nasabah that followed by string 'do' in nasabah table and order by id\_nasabah

Pict 12. Order by id\_nasabah

b. find the nama nasabah that has registered into BRUS cabang\_bank



Pict 13. nama\_nasabah BRUS bank

c. find nama nasabah that had registered in cabang 'BRUM' that had jenis\_transaksi debit or kredit



Pict 14. nama\_nasabah BRUM with kredit debit

d. find the jenis\_transaksi in BRUM cabang\_bank



Pict 15. Jenis\_transaksi

e. find nama\_nasabah that has name string 'le' or 'on' order by id nasbah that has maximal 3 row in offset 2



Pict 16. nama\_nasabah