DATABASE SYSTEM PRACTICUM PRACTICUM 6



Created by:

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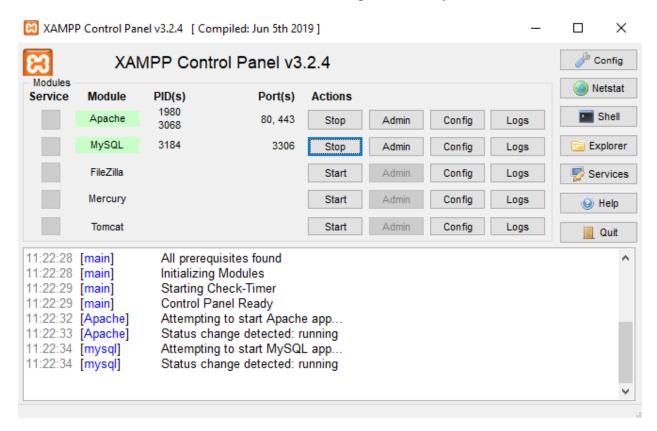
NIM : L200183203

Class : X

INFORMATION TECHNOLOGY FACULTY OF COMMUNICATION AND INFORMATICS MUHAMMADIYAH UNIVERSITY OF SURAKARTA 2020

Activity

1. Run the XAMPP Control Panel and run the Apache and MySQL server.



2. Open CMD, log in to MySQL and 'use perbankan' database

```
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\ACER>cd..

C:\Users>cd..

C:\vd xampp\mysql\bin>mysql -u root
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.

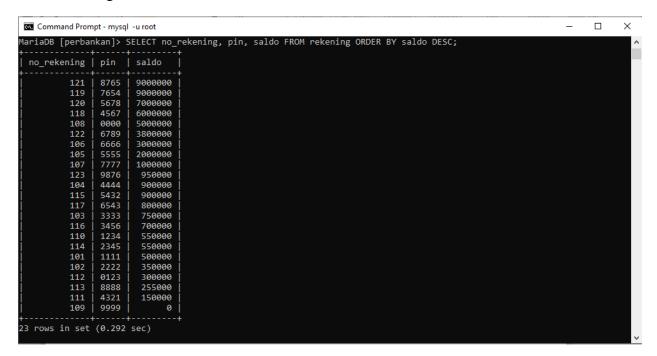
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan;
Database changed
```

3. Show name and address of bank sorted by name of the bank

```
×
Command Prompt - mysql -u root
                                                                                                                                                    ariaDB [perbankan]> SELECT nama_cabang, alamat_cabang FROM cabang_bank ORDER BY nama_cabang;
 nama_cabang
                                      alamat_cabang
                                      Jl. Raflesia 76
 Bank Rut Unit Ambon
                                      Jl. Ahmad Yani 45
Jl. Untung Suropati 12
Jl. Anggrek 70
Jl. Soekarno 98
Jl. Soeharto 75
 Bank Rut Unit Boyolali
Bank Rut Unit Ciamis
 Bank Rut Unit Depok
 Bank Rut Unit Garut
 Bank Rut Unit Jakarta
 Bank Rut Unit Klaten
                                      Jl. Suparman 23
 Bank Rut Unit Lamongan
                                      Jl. Susilo 87
 Bank Rut Unit Ngawi
Bank Rut Unit Palembang
                                      Jl. Yudhoyono 19
                                      Jl. Habiebie 54
 Bank Rut Unit Rembang
Bank Rut Unit Surakarta
                                      Jl. Mawar 65
Jl. Slamet Riyadi 18
                                      Jl. Jendral Sudirman 85
Jalan A. Yani No. 23
 Bank Rut Unit Tasikmalaya
Bank Rut Unit Wonogiri
 Bank Rut Unit Yogyakarta
                                      Jl. Anggrek 21
5 rows in set (0.646 sec)
```

4. Display account numbers, pins, and balance amounts for all accounts and are sorted by the largest number to lowest of balances.



Assignment

1. Show name and address of customer sorted by name of the customer

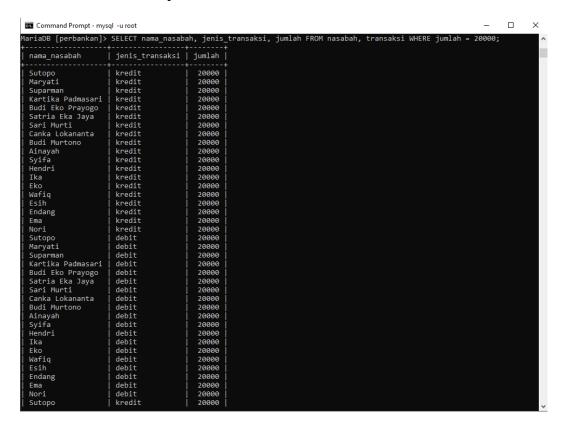
```
Command Prompt - mysql -u root
                                                                                                                                       П
                                                                                                                                              ×
ariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah;
 nama_nasabah
                       | alamat_nasabah
                         Jl. Slamet Riyadi 18
Jl. Kantil 30
Jl. Merak 22
Jl. Tidar 86
 Ainayah
 Budi Eko Prayogo
Budi Murtono
 Canka Lokananta
                         Jl. Anggrek 21
                         Jl. Soeharto 75
 Ema
                         Jl. Soekarno 98
Jl. Jendral Sudirman 85
 Endang
 Esih
 Hendri
                         Jl. Ahmad Yani 45
                         Jl. Suparman 23
 Ika
                         Jl. Manggis 15
Jl. MT. Haryono 31
Jl. Habiebie 54
 Kartika Padmasari
 Maryati
Nori
Sari Murti
                         Jl. Pangandaran 11
 Satria Eka Jaya
                         Jl. Slamet Riyadi 45
 Suparman
                         Jl. Hasanudin 81
 Sutopo
                         Jl. Jendral Sudirman 12
 Syifa
                         Jl. P. Tendean 63
                         Jl. Untung Suropati 12
 Wafiq
19 rows in set (1.875 sec)
```

2. Show transaction type and transaction amount where type of the transaction is 'kredit'

```
×
Command Prompt - mysql -u root
ariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi WHERE jenis_transaksi = "kredit";
 jenis_transaksi | jumlah
 kredit
                     20000
 kredit
                    30000
200000
 kredit
 kredit
                    150000
                    50000
 kredit
 kredit
                    200000
 kredit
                    100000
 kredit
                     20000
                    50000
 kredit
 kredit
                    200000
                    100000
 kredit
 kredit
                    100000
 kredit
                    200000
 kredit
                    20000
 kredit
                     30000
 kredit
                    200000
 kredit
                    150000
 kredit
                     50000
 kredit
                    500000
                    200000
 kredit
 kredit
                     30000
 kredit
                     30000
22 rows in set (0.398 sec)
```

3. Show transaction type and transaction amount which did the transaction on 21 November 2009 and sorted by transaction amount

4. Show customer name, transaction type, and transaction amount where amount of transaction is Rp 20.000



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
Ainayah	kredit	20000
Syifa	kredit	20000
Hendri	kredit	20000
Ika	kredit	20000
Eko	kredit	20000
Wafiq	kredit	20000
Esih	kredit	20000
Endang	kredit	20000
Ema	kredit	20000
Nori	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
Ainayah	debit	20000
Syifa	debit	20000
Hendri	debit	20000
Ika	debit	20000
Eko	debit	20000
Wafiq	debit	20000
Esih	debit	20000
Endang	debit	20000
Ema	debit	20000
Nori	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
Juli 14 Eka Juya	00010	20000

Sari Murti	debit	20000
Canka Lokananta	debit	20000
Budi Murtono	debit	20000
Ainayah	debit	20000
Syifa	debit	20000
Hendri	debit	20000
Ika	debit	20000
Eko	debit	20000
Wafiq	debit	20000
Esih	debit	20000
Endang	debit	20000
	debit debit	20000
Ema		
Nori	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
Ainayah	kredit	20000
Syifa	kredit	20000
Hendri	kredit	20000
Ika	kredit	20000
Eko	kredit	20000
Wafiq	kredit	20000
Esih	kredit	20000
Endang	kredit	20000
Ema	kredit	20000
Nori	kredit	20000
Sutopo	debit	20000
Maryati	debit	20000
Suparman	debit	20000
Kartika Padmasari	debit	20000
Budi Eko Prayogo	debit debit	20000
Satria Eka Jaya	debit	20000
Satria Eka Jaya Sari Murti	debit debit	20000
Canka Lokananta	debit debit	20000
Budi Murtono	debit	20000
Ainayah	debit	20000
Syifa	debit	20000

5. Show customer name and address where customer name begins with "Su"

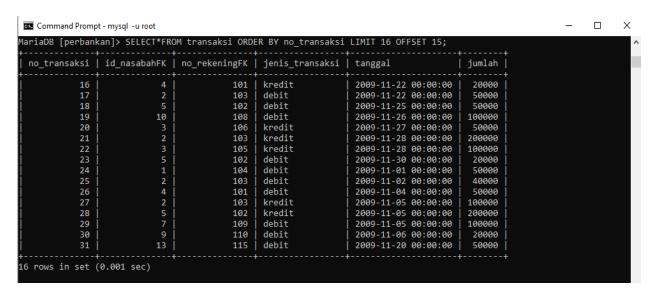
6. Show no_transaksi and jumlah on transaksi where jenis_transaksi = 'debit' and jumlah = Rp 50.000

```
Command Prompt
                                                                                                                       ×
lariaDB [perbankan]> SELECT no_transaksi, jumlah FROM transaksi WHERE jenis_transaksi = 'debit' AND jumlah
 no_transaksi |
                jumlah
                  50000
                  50000
           12
17
18
24
                  50000
                  50000
                  50000
                  50000
                  50000
           31
                  50000
                  50000
 rows in set (0.001 sec)
```

7. Show the no_transaksi, jenis_transaksi, and jumlah where jenis_transaksi = 'kredit' and saldo = 20.000 or 100.000

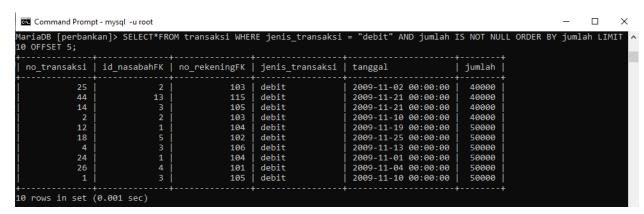
```
Command Prompt - mysql -u root
                                                                                                                                 MariaDB [perbankan]> SELECT no_transaksi, jenis_transaksi, jumlah FROM transaksi WHERE jenis_transaksi =
mlah = 20000 OR jumlah = 100000;
 no_transaksi |
                  jenis_transaksi | jumlah
                  kredit
                                        20000
                  debit
                                        100000
                  debit
                                        100000
                  kredit
                                        100000
            16
19
22
27
                                        20000
                  kredit
                                        100000
                  debit
                                        100000
                  kredit
                  kredit
                                        100000
             29
33
                  debit
                                        100000
                  kredit
                                        20000
                  debit
                                        100000
             41
                  debit
                                        100000
12 rows in set (0.001 sec)
```

8. Show no_transaksi, jenis_transaksi, with jenis transaksi just 'debit' and transactions occurred in 2009-11-22



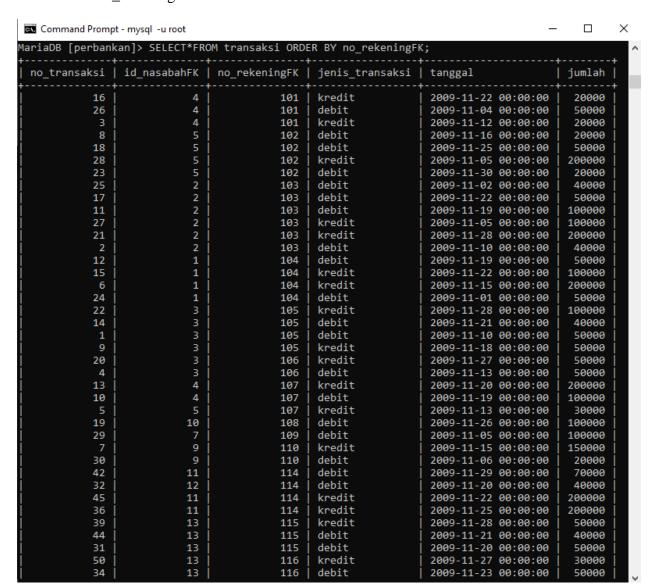
9. Displays the customer table where the customer's name is "Ainayah" and the customer's address is not null.

10. Displays a transaction table in which the transaction type is 'debit' and the number is not null, sorted by the amount with a limit of 10 and offset of 5



11. Display nama_nasabah beginning with the letter 'S'

12. Sort no_rekeningFK in the transaction table



```
117
                                                    kredit
                                                                       2009-11-23 00:00:00
                                                                                                 30000
            40
                             14
                                                    debit
                                                                       2009-11-29 00:00:00
                                                                                                100000
                                                    kredit
            43
                             14
                                                                       2009-11-20
                                                                                   00:00:00
                                                                                                500000
            49
                                             118
                                                    debit
                                                                       2009-11-26
                                                                                   00:00:00
                                                                                                200000
            46
                                                                       2009-11-22
                                             120
                                                    kredit
                                                                                   00:00:00
                                                                                                 30000
                             19
                                             120
                                                    kredit
                                                                       2009-11-25
                                                                                   00:00:00
                                                                                                150000
                                                                       2009-11-25
            48
                                             122
                                                                                   00:00:00
                                                                                                 60000
                                                    debit
            38
                             15
                                             122
                                                    debit
                                                                       2009-11-26 00:00:00
                                                                                                 20000
            47
                             12
                                                                       2009-11-22 00:00:00
                                             123
                                                    debit
                                                                                                60000
                             12
                                                    debit
                                                                       2009-11-29 00:00:00
                                                                                                100000
            41
                                             123
50 rows in set (0.010 sec)
```

13. Show no_rekening, kode_cabangFK, and saldo where kode_cabangFK = 'BRUS'

```
Command Prompt - mysql -u root
                                                                                                          ariaDB [perbankan]> SELECT no_rekening, kode_cabangFK, saldo FROM rekening WHERE kode_cabangFK LIKE!
 no rekening
               kode cabangFK
                                saldo
         101
               BRUS
                                  500000
         102
                BRUS
         103
               BRUS
         106
               BRUS
                                 3000000
                                 1000000
         107
               BRUS
 rows in set (0.084 sec)
```

14. Look for the nama_nasabah who begin with the letter 'B'

15. Displays a transaction table in which the transaction type is 'kredit' and the number is not null, sorted by the amount with a limit of 15 and offset of 3

```
\times
Select Command Prompt - mysql -u root
                                    transaksi WHERE jenis_transaksi
ORDER BY jumlah LIMIT 15 OFFSET
                  id_nasabahFK
                                                                                                  jumlah
 no_transaksi
                                   no_rekeningFK
                                                     jenis_transaksi
                                                                         tanggal
                                                                         2009-11-23 00:00:00
2009-11-22 00:00:00
                                                     kredit
                                                                                                   30000
            46
                             14
                                              120
                                                     kredit
                                                                                                    30000
                              5
                                              107
                                                     kredit
                                                                         2009-11-13 00:00:00
                                                                                                    30000
            50
                                              116
                                                     kredit
                                                                         2009-11-27
                                                                                      00:00:00
                                                                                                    30000
                                                                         2009-11-18 00:00:00
                                                                                                   50000
                                              105
                                                     kredit
            20
                                              106
                                                                         2009-11-27
                                                                                      00:00:00
                                                                                                   50000
                                                     kredit
            39
                                                                         2009-11-28 00:00:00
                                                                                                   50000
                             13
                                              115
                                                     kredit
            22
15
                                                                         2009-11-28 00:00:00
                                                     kredit
                                                                                                  100000
                              3
                                              105
                                                                         2009-11-22 00:00:00
                                                                                                  100000
                                              104
                                                     kredit
                                              103
                                                     kredit
                                                                         2009-11-05 00:00:00
                                                                                                  100000
                              19
                                              120
                                                     kredit
                                                                         2009-11-25 00:00:00
                                                                                                   150000
                                              110
                                                     kredit
                                                                         2009-11-15 00:00:00
                                                                                                   150000
             13
                                              107
                                                     kredit
                                                                         2009-11-20 00:00:00
                                                                                                  200000
                                                                                                  200000
            36
                                              114
                                                     kredit
                                                                         2009-11-25 00:00:00
                             11
                                                                         2009-11-05 00:00:00
                                                                                                  200000
            28
                                              102
                                                     kredit
15 rows in set (0.100 sec)
```