DATABASE SYSTEMS PRACTICUM 6



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1. Activity

```
Command Prompt - mysql -u root
:\xampp\mysql\bin>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.
ype 'help;' or '\h' for help. Type '\c' to clear the current input statement.
lariaDB [(none)]> show databases
 Database
 aviation
 information_schema
 mysql
 perbankan
 performance_schema
 phpmyadmin
 rows in set (0.114 sec)
MariaDB [(none)]> use perbankan
atabase changed
lariaDB [perbankan]> SELECT nama_cabang, alamat_cabang FROM cabang_bank ORDER BY nama_cabang;
                            alamat_cabang
nama_cabang
                              Jl. Hasanudin 81
 Bank Rut Unit Ambarawa
 Bank Rut Unit Boyolali
                              Jl. Ahmad Yani 45
                              Jl. P. Tendean 63
 Bank Rut Unit Cilacap
 Bank Rut Unit Demak
                              Jl. Ahmad Yani 45
 Bank Rut Unit Grogol
                             Jl. Suparman 23
 Bank Rut Unit Jepara
                             Jl. Anggrek 21
 Bank Rut Unit Klaten
                             Jl. Suparman 23
                              Jl. Untung Suropati 12
 Bank Rut Unit Lamongan
 Bank Rut Unit Ngawi
                              Jl. Manggis 81
                              Jl. Jendral Sudirman 12
 Bank Rut Unit Pati
                              Jl. MT. Haryono 31
Jl. Slamet Riyadi 18
 Bank Rut Unit Rembang
 Bank Rut Unit Surakarta
                              Jl. Slamet Riyadi 18
 Bank Rut Unit Tawangmangu
 Bank Rut Unit Wonogiri
 Bank Rut Unit Yogyakarta
                             Jl. Anggrek 21
5 rows in set (0.202 sec)
```

Picture 1.1. login as root into MySql and show name and address of bank sorted by name of the bank

```
Command Prompt - mysql -u root
MariaDB [perbankan]> SELECT no_rekening, pin, saldo FROM rekening ORDER BY saldo DESC;
 no_rekening | pin
                      saldo
                        5000000
          108
                0
          106
                6666
                        3000000
                        2000000
          107
                        1000000
                7777
          104
                4444
                         900000
          103
                         750000
          110
                1234
                         550000
          101
                1111
                         500000
                         500000
                9900
                         450000
          121
                7788
                         400000
          102
                5566
                         350000
          120
          112
                123
                         300000
          119
                3344
                         300000
                8888
                         255000
                1122
                         250000
          118
                         200000
          117
                7890
          116
                3456
                         150000
          111
                4321
                         150000
          115
                9012
                         100000
          114
                5678
                          50000
          109
                9999
23 rows in set (0.105 sec)
MariaDB [perbankan]>
```

Picture 1.2. show account number, pin, amount from account sorted by amount from biggest to lowest

2. Assignment

```
Command Prompt - mysql -u root
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah
 nama_nasabah
                             alamat_nasabah
 Agus Warsito
                              Jl. Jendral Sudirman 12
                              Jl. Kantil 30
 Budi Eko Prayogo
 Budi Murtono
                              Jl. Merak 22
 Canka Lokananta
                              Jl. Pangandaran 11
 Enzo Araisena Kurniaji
                              Jl. Slamet Riyadi 45
 Galan Kresna Kurniaji
 Ganang Ramadhan Kurniaji
                              Jl. Hasanudin 81
                              Jl. Tidar 86
Jl. Manggis 15
 Ganno Tribuana Kurniaji
 Isti Puput Susanti
 Kartika Padmasari
                              Jl. Manggis 15
                              Jl. MT. Haryono 31
Jl. Kantil 30
 Maryati
 Muhammad Reynand Kurniaji
                              Jl. Merak 22
 Nur Annida I'ffah Supardi
                              Jl. Sutoyo 5
 Nurma Sabila Hikmayanti
                              Jl. Pangandaran 11
 Sari Murti
 Satria Eka Jaya
                              Jl. Slamet Riyadi 45
 Sri Harnani
                              Jl. MT. Haryono 31
 Suparman
                              Jl. Hasanudin 81
                              Jl. Jendral Sudirman 12
 Sutopo
l9 rows in set (0.000 sec)
MariaDB [perbankan]>
```

Picture 2.1. Show name and address of customer sorted by name of the customer

```
Command Prompt - mysql -u root
ariaDB [perbankan]> SELECT jenis transaksi, jumlah FROM transaksi WHERE jenis transaksi = "kredit";
 jenis_transaksi | jumlah
 kredit
                      20000
 kredit
                      30000
 kredit
                     200000
 kredit
                     150000
                      50000
 kredit
                     200000
 kredit
 kredit
                     100000
 kredit
                      20000
 kredit
                      50000
                     200000
 kredit
 kredit
                     100000
                     100000
 kredit
                     200000
 kredit
                     500000
 kredit
                     550000
 kredit
 kredit
                     600000
                     650000
 kredit
 kredit
                     700000
                     750000
 kredit
                     800000
                     850000
 kredit
                     900000
 kredit
                     950000
 kredit
                    1000000
 kredit
24 rows in set (0.043 sec)
MariaDB [perbankan]>
```

Picture 2.2. Show transaction type and transaction amount where type of th transaction is credit

riaDB [perbankan]	> SELECT	jenis transaksi.	jumlah	FROM transaksi	WHERE	tanggal="0000-00	-00" ORDER	BY juml
-> ;								
jenis_transaksi	jumlah	1						
debit	20000							
kredit	20000							
debit	20000							
kredit	20000							
debit	20000							
kredit	30000							
debit	40000							
debit	40000							
debit	40000							
debit	50000							
kredit	50000							
debit	50000							
debit	50000							
debit	50000							
debit	50000							
kredit	50000							
debit	50000							
debit	50000							
debit	50000							
kredit	100000							
kredit	100000							
debit	100000							
kredit	100000							
debit	100000							
debit	100000							
debit	100000							
debit	100000							
debit	150000							
kredit	150000							
kredit	200000							
debit	200000							
kredit	200000							
kredit	200000							
kredit	200000							
debit	250000							
debit	300000							
debit	350000							
debit	400000							
debit	450000							
kredit	500000							
kredit	550000							
kredit	600000							
kredit	650000							
kredit	700000							

Picture 2.3. show transaction type and transaction amount which did the transaction on 21 November 2009 and sorted by transaction amount

Command Prompt - mysql -u roo	t							
<pre>lariaDB [perbankan]> SELECT ->;</pre>	nama_nasabah, jeni	s_transaksi,	jumlah	FROM nasabah,	transaksi	WHERE j	umlah=	2000
nama nasabah	+ jenis transaksi	++ iumlah						
		+						
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						
Agus Warsito	kredit	20000						
Sri Harnani	kredit	20000						
Ganang Ramadhan Kurniaji	kredit	20000						
Isti Puput Susanti	kredit	20000						
Muhammad Reynand Kurniaji		20000						
Galan Kresna Kurniaji	kredit	20000						
Nurma Sabila Hikmayanti	kredit	20000						
Enzo Araisena Kurniaji	kredit	20000						
Ganno Tribuana Kurniaji	kredit	20000						
Nur Annida I'ffah Supardi		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						
Agus Warsito	debit	20000						
Sri Harnani	debit	20000						
Ganang Ramadhan Kurniaji	debit	20000						
Isti Puput Susanti	debit	20000						
Muhammad Reynand Kurniaji	debit	20000						
Galan Kresna Kurniaji	debit	20000						
Nurma Sabila Hikmayanti	debit	20000						
Enzo Araisena Kurniaji	debit	20000						
Ganno Tribuana Kurniaji	debit	20000						
Nur Annida I'ffah Supardi	debit	20000						
Sutopo	kredit	20000						
Maryati	kredit	20000						
Suparman	kredit	20000						
Kartika Padmasari	kredit	20000						
Budi Eko Prayogo	kredit	20000						

Picture 2.4. Show customer name, transaction type, and transaction amount where amount of transaction is Rp 20.000

Picture 2.5. show customer name and address where customer name begins with "Su"

Question

Displays the customer's name and the address of the customer where the customer's name contains the name "Kurniaji" and starts with "Ga"!

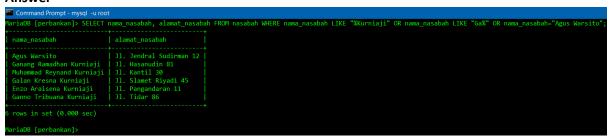
Answer

Picture 2.6. Show the customer's name and the address of the customer where the customer's last name contains "Kurniaji" and starts with "Ga"!

Question

Displays the customer's name and the address of the customer where the customer's name contains the name "Kurniaji" or starts with "Ga" or the customer name is "Agus Warsito"!

Answer



Picture 2.7. Show the customer's name and the address of the customer where the customer's name contains the name "Kurniaji" or starts with "Ga" or the customer name is "Agus Warsito"!

Question

Displays account table sorted by transaction amount with limit 5 and offset 2!

Answer

```
Command Prompt - mysql -u root
MariaDB [perbankan]> SELECT * FROM rekening ORDER BY saldo LIMIT 5 OFFSET 2;
 no_rekening | kode_cabangFK | pin
                                     saldo
         115
               BRUM
                                       100000
                                9012
         116
               BRUB
                                3456
                                       150000
         111
               BRUK
                                4321
                                       150000
         117
                                7890
               BRUK
                                       200000
         118 BRUY
                                1122
                                       250000
 rows in set (0.002 sec)
MariaDB [perbankan]>
```

Picture 2.8. Show account table sorted by transaction amount with limit 5 and offset 2!

Ouestion

Displays the customer table where the customer's name is "Ganno" and the customer's address is not null

Answer

Picture 2.9. Show the customer's name where the customer's name is "Ganno" and the customer's address is not null

Question

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

Answer

Command Promp	ot - mysql -u root							
MariaDB [perbank				si="debit" AND jumlah	IS NOT NULI	L ORDER BY jumla	h LIMIT 10	OFFSET 5;
no_transaksi			jenis_transaksi		jumlah			
14	3	105	debit	0000-00-00 00:00:00	40000			
24	1	104	debit	0000-00-00 00:00:00	50000			
	3	105	debit	0000-00-00 00:00:00	50000			
26	4	101	debit	0000-00-00 00:00:00	50000			
31	1	101	debit	0000-00-00 00:00:00	50000			
18	5	102	debit	0000-00-00 00:00:00	50000			
17	2	103	debit	0000-00-00 00:00:00	50000			
12	1	104	debit	0000-00-00 00:00:00	50000			
4	3	106	debit	0000-00-00 00:00:00	50000			
11	2	103	debit	0000-00-00 00:00:00	100000			
l0 rows in set ((0.001 sec)							
	(
MariaDB [perbank	can]>							

Picture 2.10. Show 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

Question

Displays the customer's name and the address of the customer where the customer's name contains the name "Kurniaji" and starts with "Ga"!

Answer

Picture 2.11. Show the customer's name and the address of the customer where the customer's last name contains "Kurniaji" and starts with "Ga"!

Question

Displays the customer's name and the address of the customer where the customer's name contains the name "Kurniaji" or starts with "Ga" or the customer name is "Agus Warsito"!

Answer

Picture 2.12. Show the customer's name and the address of the customer where the customer's name contains the name "Kurniaji" or starts with "Ga" or the customer name is "Agus Warsito"!

Question

Displays account table sorted by transaction amount with limit 5 and offset 2!

Answer

```
Command Prompt - mysql -u root
MariaDB [perbankan]> SELECT * FROM rekening ORDER BY saldo LIMIT 5 OFFSET 2;
 no_rekening | kode_cabangFK | pin
                                       saldo
         115
                                       100000
               BRUM
                                9012
         116
               BRUB
                                3456
                                       150000
         111
               BRUK
                                4321
                                       150000
         117
               BRUK
                                7890
                                       200000
         118 | BRUY
                                1122
                                      250000
 rows in set (0.002 sec)
MariaDB [perbankan]>
```

Picture 2.13. Show account table sorted by transaction amount with limit 5 and offset 2!

Question

Displays the customer table where the customer's name is "Ganno" and the customer's address is not null

Answer

Picture 2.14. Show the customer's name where the customer's name is "Ganno" and the customer's address is not null

Question

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

Answer

o_transaksi	id_nasabahFK	no_rekeningFK	jenis_transaksi	tanggal	jumlah		
14	3	105	debit	0000-00-00 00:00:00	40000		
24		104	debit	0000-00-00 00:00:00	50000		
1		105	debit	0000-00-00 00:00:00	50000		
26		101	debit	0000-00-00 00:00:00	50000		
31		101	debit	0000-00-00 00:00:00	50000		
18		102	debit	0000-00-00 00:00:00	50000		
17		103	debit	0000-00-00 00:00:00	50000		
12		104	debit	0000-00-00 00:00:00	50000		
4		106	debit	0000-00-00 00:00:00	50000		
11		103	debit	0000-00-00 00:00:00	100000		
rows in set (+			

Picture 2.15. Show 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