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## Modul 6

### Langkah praktikum :

1. Jalankan XAMPP control panel
2. Jalankan server Apache dan MySql
3. Buka Command Prompt dan login sebagai root ke MySql
4. Pilih database perbankan dengan perintah “use perbankan”. Sehingga akan muncul pemberitahuan “database changed”
5. Tampilkan nama bank dan alamat bank untuk semua cabang bank dan diurutkan berdasarkan nama bank dengan kode berikut :

SELECT nama\_cabang, alamat\_cabang FROM cabang\_bank ORDERBY nama\_cabang;

```
XAMPP for Windows - mysql -u root -p
Setting environment for using XAMPP for Windows.
ASUS@LAPTOP-6K5IO2L1 e:\xampp
# 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 Rut Unit Aceh | Jl. Iskandar Muda 24 |
| Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| Bank Rut Unit Cilacap | Jl. Soedirman 11 |
| Bank Rut Unit Demak | Jl. Pattimura 35 |
| Bank Rut Unit Ende | Jl. Diponegoro 10 |
| Bank Rut Unit Gunung Kidul | Jl. Sutomo 17 |
| Bank Rut Unit Jakarta | Jl. Martha Christina 73 |
| Bank Rut Unit Klaten | Jl. Superman 23 |
| Bank Rut Unit Lampung | Jl. Teuku Umar 26 |
| Bank Rut Unit Palembang | Jl. Achmad Soebardjo 65 |
| Bank Rut Unit Rembang | Jl. Kartini 07 |
| Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| Bank Rut Unit Tawangmangu | Jl. Cut Nyak Dien 91 |
| Bank Rut Unit Wonogiri | Jl. Ahmad Yani 23 |
| Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+
15 rows in set (0.304 sec)

MariaDB [perbankan]> SELECT no_rekening, pin FROM rekening ORDER BY saldo DESC;
+-----+-----+
| no_rekening | pin |
+-----+-----+
| 108 | 0 |
| 106 | 6666 |
| 105 | 5555 |
| 116 | 1998 |
+-----+-----+
```

6. Tampilkan nomor rekening, pin, dan jumlah saldo untuk semua rekening dan dirutkan berdasarkan jumlah saldo dari yang paling besar ke yang paling kecil dengan kode berikut :

SELECT no\_rekening, pin, saldo FROM rekening ORDER BY saldo DESC;

```
XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT no_rekening, pin FROM rekening ORDER BY saldo DESC;
+-----+-----+
| no_rekening | pin |
+-----+-----+
| 108         | 0   |
| 106         | 6666|
| 105         | 5555|
| 116         | 1998|
| 107         | 7777|
| 104         | 4444|
| 103         | 3333|
| 117         | 2002|
| 121         | 7788|
| 118         | 1122|
| 110         | 1234|
| 101         | 1111|
| 115         | 1999|
| 102         | 2222|
| 123         | 1312|
| 112         | 123  |
| 114         | 7896|
| 113         | 8888|
| 119         | 3344|
| 111         | 4321|
| 122         | 9900|
| 120         | 5566|
| 109         | 9999|
+-----+-----+
23 rows in set (0.174 sec)
```

## Tugas :

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

```
XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah;
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Budi Eko Prayogo | Jl. Kantil 30 |
| Budi Murtono    | Jl. Merak 22  |
| Canka Lokananta | Jl. Tidar 86  |
| Faridha         | Jl. Kiwi 56   |
| Indri Hapsari   | Jl. Slamet Riyadi 34 |
| Kartika Padmasari | Jl. Manggis 15 |
| Kurnia          | Jl. Jambu 88  |
| Maryati         | Jl. MT. Haryono 31 |
| Paijo           | Jl. Anggur 41 |
| Purnama         | Jl. Srikaya 09 |
| Ramadhan        | Jl. Duku 15   |
| Sari Murti      | Jl. Pangandaran 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Suparman        | Jl. Hasanudin 81 |
| Suparman        | Jl. Jeruk 2   |
| Sutomo          | Jl. Mangga 20 |
| Sutopo          | Jl. Jendral Sudirman 12 |
| Tika            | Jl. Nangka 43 |
| Wahyu           | Jl. Semangka 17 |
| Winarno         | Jl. Apel 13   |
+-----+-----+
20 rows in set (0.154 sec)
```

```
XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah ORDER BY nama_nasabah DESC;
+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Winarno      | Jl. Apel 13   |
| Wahyu        | Jl. Semangka 17 |
| Tika         | Jl. Nangka 43 |
| Sutopo       | Jl. Jendral Sudirman 12 |
| Sutomo       | Jl. Mangga 20 |
| Suparman     | Jl. Hasanudin 81 |
| Suparman     | Jl. Jeruk 2   |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Sari Murti   | Jl. Pangandaran 11 |
| Ramadhan     | Jl. Duku 15   |
| Purnama      | Jl. Srikaya 09 |
| Paijo        | Jl. Anggur 41 |
| Maryati      | Jl. MT. Haryono 31 |
| Kurnia       | Jl. Jambu 88  |
| Kartika Padmasari | Jl. Manggis 15 |
| Indri Hapsari | Jl. Slamet Riyadi 34 |
| Faridha      | Jl. Kiwi 56   |
| Canka Lokananta | Jl. Tidar 86  |
| Budi Murtono | Jl. Merak 22  |
| Budi Eko Prayogo | Jl. Kantil 30 |
+-----+-----+
20 rows in set (0.000 sec)
```

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

```
XAMPP for Windows - mysql -u root -p
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	100000
kredit	800000
kredit	170000
kredit	190000
kredit	500000
kredit	590000
kredit	500000
kredit	170000
kredit	350000

```
22 rows in set (0.198 sec)

MariaDB [perbankan]>
```

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

```
Select XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi WHERE tanggal = '2009-11-21' AND ORDER BY jumlah;
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 'ORDER BY jumlah' at line 1
MariaDB [perbankan]> SELECT jenis_transaksi, jumlah FROM transaksi WHERE tanggal = '2009-11-21';
```

jenis_transaksi	jumlah
debit	40000

```
1 row in set (0.149 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 (0.001 sec)

MariaDB [perbankan]>
```

4. Tampilkan nama nasabah, jenis transaksi, dan jumlah transaksi dimana jumlah transaksi = Rp.20.000!

```

XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT nama_nasabah FROM nasabah AND jenis_transaksi, jumlah FROM transaksi WHERE jumlah = 20000;
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 'AND jenis_t
ransaksi, jumlah FROM transaksi WHERE jumlah = 20000' at line 1
MariaDB [perbankan]> SELECT nama_nasabah, jenis_transaksi, jumlah FROM transaksi WHERE jumlah = 20000, nasabah;
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 'nasabah' a
t line 1
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
Indri Hapsari	kredit	20000
Sari Murti	kredit	20000
Canka Lokananta	kredit	20000
Budi Murtono	kredit	20000
Sutomo	kredit	20000
Suparman	kredit	20000
Paijo	kredit	20000
Winarno	kredit	20000
Wahyu	kredit	20000
Tika	kredit	20000
Faridha	kredit	20000
Purnama	kredit	20000
Kurnia	kredit	20000
Ramadhan	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
Indri Hapsari	debit	20000
Sari Murti	debit	20000
Canka Lokananta	debit	20000
Budi Murtono	debit	20000
Sutomo	debit	20000
Suparman	debit	20000
Paijo	debit	20000
Winarno	debit	20000

Winarno	kredit	20000
Wahyu	kredit	20000
Tika	kredit	20000
Faridha	kredit	20000
Purnama	kredit	20000
Kurnia	kredit	20000
Ramadhan	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
Indri Hapsari	debit	20000
Sari Murti	debit	20000
Canka Lokananta	debit	20000
Budi Murtono	debit	20000
Sutomo	debit	20000
Suparman	debit	20000
Paijo	debit	20000
Winarno	debit	20000
Wahyu	debit	20000
Tika	debit	20000
Faridha	debit	20000
Purnama	debit	20000
Kurnia	debit	20000
Ramadhan	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
Indri Hapsari	kredit	20000
Sari Murti	kredit	20000
Canka Lokananta	kredit	20000
Budi Murtono	kredit	20000
Sutomo	kredit	20000
Suparman	kredit	20000
Paijo	kredit	20000
Winarno	kredit	20000
Wahyu	kredit	20000
Tika	kredit	20000
Faridha	kredit	20000

XAMPP for Windows - mysql -u root -p

Faridha	debit	20000
Purnama	debit	20000
Kurnia	debit	20000
Ramadhan	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
Indri Hapsari	kredit	20000
Sari Murti	kredit	20000
Canka Lokananta	kredit	20000
Budi Murtono	kredit	20000
Sutomo	kredit	20000
Suparman	kredit	20000
Paijo	kredit	20000
Winarno	kredit	20000
Wahyu	kredit	20000
Tika	kredit	20000
Faridha	kredit	20000
Purnama	kredit	20000
Kurnia	kredit	20000
Ramadhan	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
Indri Hapsari	debit	20000
Sari Murti	debit	20000
Canka Lokananta	debit	20000
Budi Murtono	debit	20000
Sutomo	debit	20000
Suparman	debit	20000
Paijo	debit	20000
Winarno	debit	20000
Wahyu	debit	20000
Tika	debit	20000
Faridha	debit	20000
Purnama	debit	20000
Kurnia	debit	20000
Ramadhan	debit	20000

XAMPP for Windows - mysql -u root -p

Ramadhan	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
Indri Hapsari	debit	20000
Sari Murti	debit	20000
Canka Lokananta	debit	20000
Budi Murtono	debit	20000
Sutomo	debit	20000
Suparman	debit	20000
Paijo	debit	20000
Winarno	debit	20000
Wahyu	debit	20000
Tika	debit	20000
Faridha	debit	20000
Purnama	debit	20000
Kurnia	debit	20000
Ramadhan	debit	20000

100 rows in set (0.121 sec)

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

XAMPP for Windows - mysql -u root -p

```

MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah WHERE nama_nasabah ILIKE 'XSu';
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 'ILIKE 'XSu'' at line 1
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah FROM nasabah WHERE nama_nasabah LIKE 'XSu';
Empty set (0.001 sec)

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 |
| Sutomo       | Jl. Mangga 20 |
| Suparman     | Jl. Jeruk 2 |
+-----+-----+
4 rows in set (0.000 sec)

```

6. Buatlah 1 soal beserta jawabannya yang menggunakan 2 buah kondisi pada klausa “WHERE”!

“Carilah dan tampilkan data pada table nasabah dengan alamat nasabah diawali ‘Jl’ dan dengan akhiran angka 1 di nomor jalan nya.”

```
XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT * FROM nasabah WHERE alamat_nasabah LIKE 'Jl%' AND alamat_nasabah LIKE '%1';
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 '%1' at line 1
MariaDB [perbankan]> SELECT * FROM nasabah WHERE alamat_nasabah LIKE 'Jl%' AND alamat_nasabah LIKE '%1';
+----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+----+-----+-----+
| 2 | Manyati | Jl. MT. Manyono 31 |
| 3 | Suparman | Jl. Hasanudin 81 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 13 | Paijo | Jl. Anggur 41 |
+----+-----+-----+
4 rows in set (0.001 sec)
```

7. Buatlah 1 soal beserta jawabannya yang menggunakan 3 buah kondisi pada klausa “WHERE”!  
“Carilah dan tampilkan data pada table rekening dengan nomor pin nasabah diawali angka 1 atau diakhiri angka 2 atau diawali dengan angka 7.”

```
XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT * FROM rekening WHERE pin LIKE '1%' OR pin LIKE '%2' OR pin LIKE '7%';
+----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin | saldo |
+----+-----+-----+-----+
| 101 | BRUS | 1111 | 500000 |
| 102 | BRUS | 2222 | 350000 |
| 107 | BRUS | 7777 | 1000000 |
| 110 | BRUY | 1234 | 550000 |
| 112 | BRUK | 123 | 300000 |
| 114 | BRUC | 7806 | 200000 |
| 115 | BRUE | 1099 | 500000 |
| 116 | BRUJ | 1908 | 1000000 |
| 117 | BRUP | 2002 | 700000 |
| 118 | BRUC | 1122 | 560000 |
| 121 | BRUD | 7788 | 680000 |
| 123 | BRUR | 1312 | 350000 |
+----+-----+-----+-----+
12 rows in set (0.104 sec)
```

8. Buatlah 1 soal beserta jawabannya yang menggunakan klausa “ORDER”, “LIMIT”, “OFFSET”!  
“ Tampilkan 8 baris data setelah melewati 2 baris pertama data pada table nasabah dengan pengurutan nama.”

```
Select XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT nama_nasabah, alamat_nasabah, id_nasabah FROM nasabah ORDER BY nama_nasabah LIMIT 8 OFFSET 2;
+-----+-----+-----+
| nama_nasabah | alamat_nasabah | id_nasabah |
+-----+-----+-----+
| Canka Lokananta | Jl. Tidar 86 | 9 |
| Faridha | Jl. Kiwi 56 | 17 |
| Indri Hapsari | Jl. Slamet Riyadi 34 | 7 |
| Kartika Padmasari | Jl. Manggis 15 | 4 |
| Kunila | Jl. Jambu 88 | 19 |
| Manyati | Jl. MT. Manyono 31 | 2 |
| Paijo | Jl. Anggur 41 | 13 |
| Purnama | Jl. Srikaya 09 | 18 |
+-----+-----+-----+
8 rows in set (0.000 sec)
```



9. Buatlah 1 soal beserta jawabannya yang menggunakan kondisi pencarian string, pencarian NULL!

“Tampilkan pin pada table rekening dengan kondisi no rekening berawalan angka 1 dan berakhiran angka 1 dan isi saldo tidak NULL atau tidak kosong.”

```
XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> select*from rekening;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin | saldo |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 500000 |
| 102 | BRUS | 2222 | 350000 |
| 103 | BRUS | 3333 | 750000 |
| 104 | BRUM | 4444 | 900000 |
| 105 | BRUM | 5555 | 2000000 |
| 106 | BRUS | 6666 | 3000000 |
| 107 | BRUS | 7777 | 1000000 |
| 108 | BRUB | 0 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUC | 7896 | 280000 |
| 115 | BRUE | 1999 | 500000 |
| 116 | BRUJ | 1998 | 1000000 |
| 117 | BRUP | 2002 | 700000 |
| 118 | BRUC | 1122 | 560000 |
| 119 | BRUA | 3344 | 200000 |
| 120 | BRUL | 5566 | 80000 |
| 121 | BRUD | 7788 | 680000 |
| 122 | BRUT | 9900 | 90000 |
| 123 | BRUR | 1312 | 350000 |
+-----+-----+-----+-----+
23 rows in set (0.000 sec)

MariaDB [perbankan]> SELECT no_rekening FROM rekening WHERE pin LIKE '%2' OR pin LIKE '4%' AND saldo IS NOT NULL ORDER BY no_rekening LIMIT 3 OFFSET 2;
+-----+
| no_rekening |
+-----+
| 111 |
| 117 |
| 118 |
+-----+
3 rows in set (0.001 sec)
```

10. Buatlah 1 soal beserta jawabannya yang menggunakan pencarian string, pencarian NULL, serta menggunakan klausa “ORDER”, “LIMIT”, “OFFSET”!

“Tampilkan data nomor rekening pada table rekening dengan kondisi nomor pin berakhiran angka 2 atau berawalan angka 4 dan saldo nya tidak NULL serta nomor rekening diurutkan dari yang terkecil dan hanya menampilkan 3 baris setelah baris ke dua.”

```
XAMPP for Windows - mysql -u root -p
3 rows in set (0.022 sec)

MariaDB [perbankan]> select*from rekening;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin | saldo |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 500000 |
| 102 | BRUS | 2222 | 350000 |
| 103 | BRUS | 3333 | 750000 |
| 104 | BRUM | 4444 | 900000 |
| 105 | BRUM | 5555 | 2000000 |
| 106 | BRUS | 6666 | 3000000 |
| 107 | BRUS | 7777 | 1000000 |
| 108 | BRUB | 0 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 150000 |
| 112 | BRUK | 123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
| 114 | BRUC | 7896 | 280000 |
| 115 | BRUE | 1999 | 500000 |
| 116 | BRUJ | 1998 | 1000000 |
| 117 | BRUP | 2002 | 700000 |
| 118 | BRUC | 1122 | 560000 |
| 119 | BRUA | 3344 | 200000 |
| 120 | BRUL | 5566 | 80000 |
| 121 | BRUD | 7788 | 680000 |
| 122 | BRUT | 9900 | 90000 |
| 123 | BRUR | 1312 | 350000 |
+-----+-----+-----+-----+
23 rows in set (0.001 sec)

MariaDB [perbankan]> SELECT pin FROM rekening WHERE no_rekening LIKE '1%' AND no_rekening LIKE '%1' AND saldo IS NOT NULL;
+-----+
| pin |
+-----+
| 1111 |
| 4321 |
| 7788 |
+-----+
3 rows in set (0.001 sec)

MariaDB [perbankan]>
```