

Nama : Bayu Prayitno Aji

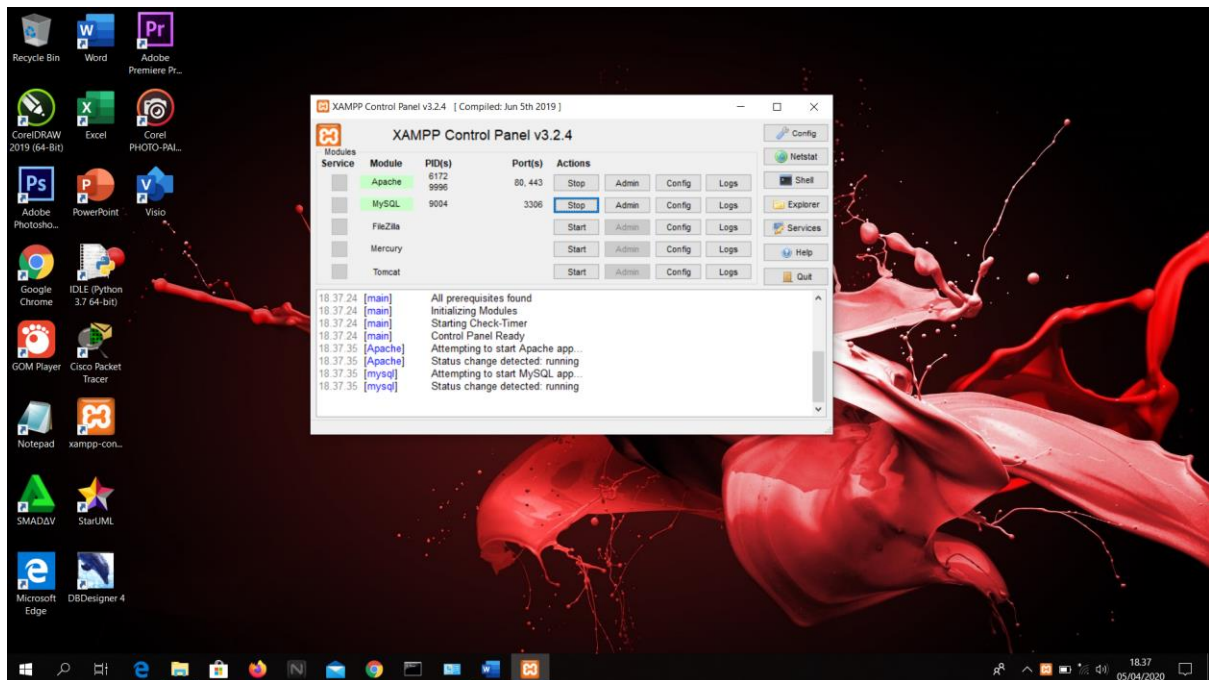
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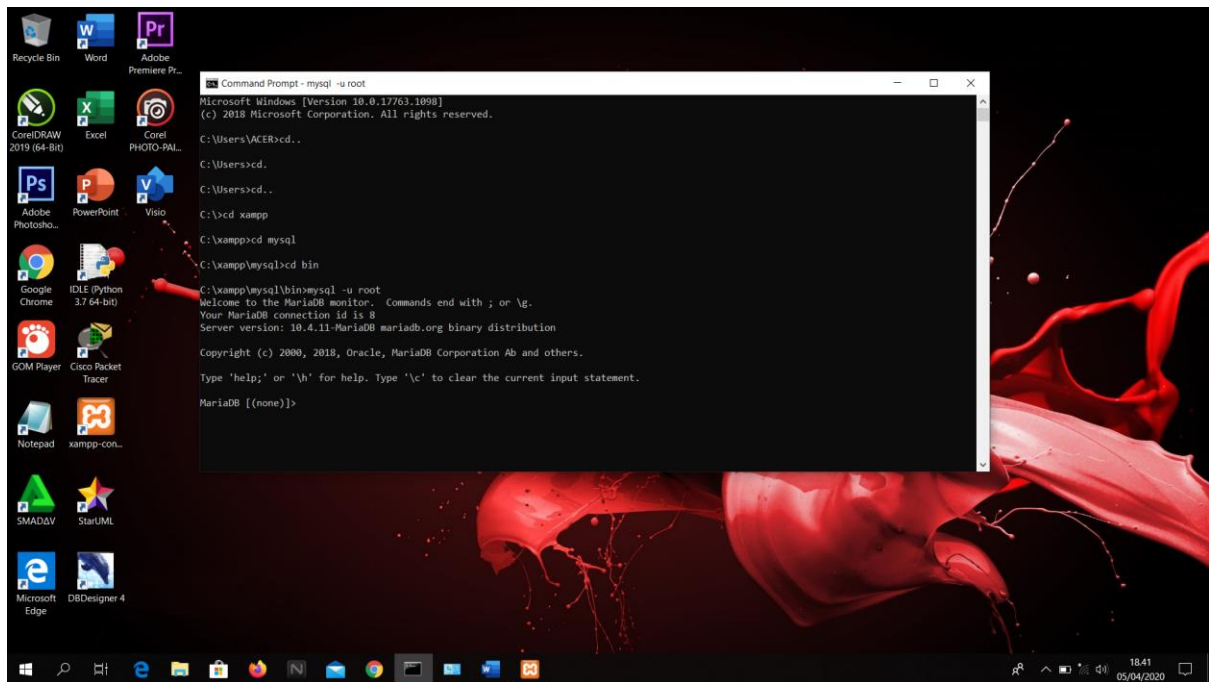
Modul 6

- Tugas

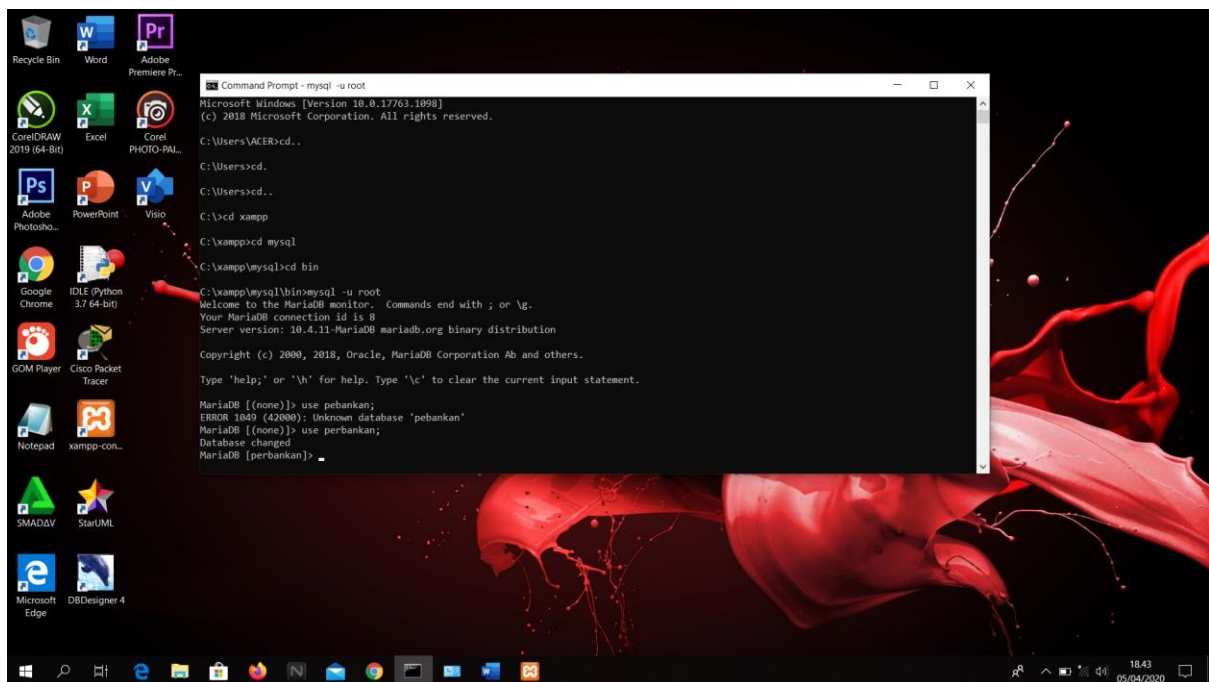
Menjalankan XAMPP Control panel kemudian menjalankan server Apache dan MySQL



Membuka Command Prompt dan login sebagai root ke MySQL



Memilih database perbankan dengan perintah “use perbankan”. Sehingga akan muncul pemberitahuan “database changed”



1. Menampilkan nama nasabah dan alamat nasabah diurutkan berdasarkan nama nasabah dengan perintah:
“select nama_nasabah, alamat_nasabah from nasabah order by nama_nasabah;”

```
Command Prompt - mysql -u root

MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> select nama_nasabah, alamat_nasabah from nasabah order by nama_nasabah;

+-----+-----+
| nama_nasabah | alamat_nasabah |
+-----+-----+
| Aji           | Jl. Duku 18    |
| Aldi          | Jl. Belimbing 35 |
| Aldi          | Jl. Sawo 7     |
| Angga         | Jl. Kedondong 2 |
| Bayu          | Jl. Apel 22    |
| Budi Eko Prayogo | Jl. Kantil 30  |
| Budi Murtono  | Jl. Merak 22   |
| Cahyo         | Jl. Taat 37    |
| Canka Lokananta | Jl. Tidar 86   |
| Fud           | Jl. Pamer 39   |
| Gilang        | Jl. Melati 11  |
| Hilmi         | Jl. Tulus 15   |
| Kartika Padmasari | Jl. Manggis 15 |
| Maryati       | Jl. MT. Haryono 31 |
| Sari Murti    | Jl. Pangandaran 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Suparman      | Jl. Hasanudin 81 |
| Sutopo        | Jl. Jendral Sudirman 12 |
| Mawan         | Jl. Alpukat 06  |
+-----+-----+
19 rows in set (0.010 sec)

MariaDB [perbankan]>
```

- Menampilkan jenis transaksi dan jumlah transaksi dimana jenis transaksinya adalah kredit dengan perintah:

“select jenis_transaksi, jumlah from transaksi where jenis_transaksi = “kredit”;”

```
Command Prompt - mysql -u root

+-----+-----+
| Angga         | Jl. Kedondong 2 |
| Bayu          | Jl. Apel 22    |
| Budi Eko Prayogo | Jl. Kantil 30  |
| Budi Murtono  | Jl. Merak 22   |
| Cahyo         | Jl. Taat 37    |
| Canka Lokananta | Jl. Tidar 86   |
| Fud           | Jl. Pamer 39   |
| Gilang        | Jl. Melati 11  |
| Hilmi         | Jl. Tulus 15   |
| Kartika Padmasari | Jl. Manggis 15 |
| Maryati       | Jl. MT. Haryono 31 |
| Sari Murti    | Jl. Pangandaran 11 |
| Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| Suparman      | Jl. Hasanudin 81 |
| Sutopo        | Jl. Jendral Sudirman 12 |
| Mawan         | Jl. Alpukat 06  |
+-----+-----+
19 rows in set (0.010 sec)

MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where jenis_transaksi = "kredit";

+-----+-----+
| jenis_transaksi | jumlah |
+-----+-----+
| kredit          | 200000 |
| kredit          | 30000  |
| kredit          | 200000 |
| kredit          | 150000 |
| kredit          | 50000  |
| kredit          | 200000 |
| kredit          | 100000 |
| kredit          | 20000  |
| kredit          | 50000  |
| kredit          | 200000 |
| kredit          | 100000 |
| kredit          | 200000 |
| kredit          | 55000  |
| kredit          | 65000  |
| kredit          | 75000  |
| kredit          | 85000  |
| kredit          | 95000  |
| kredit          | 95000  |
| kredit          | 85000  |
| kredit          | 75000  |
| kredit          | 65000  |
| kredit          | 55000  |
+-----+-----+
23 rows in set (0.002 sec)

MariaDB [perbankan]>
```

- Menampilkan jenis transaksi dan jumlah transaksi yang melakukan transaksi pada tanggal 21 November 2009 dan diurutkan berdasarkan jumlah transaksi dengan perintah:

“select jenis_transaksi, jumlah from transaksi where tanggal = “2009-11-21” order by jumlah;”

```
Command Prompt - mysql -u root
+----+-----+
| 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 | 55000 |
| kredit | 65000 |
| kredit | 75000 |
| kredit | 85000 |
| kredit | 95000 |
| kredit | 95000 |
| kredit | 85000 |
| kredit | 75000 |
| kredit | 65000 |
| kredit | 55000 |
+----+-----+
23 rows in set (0.002 sec)

MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where tanggal = "2009-11-21" 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 'select_jenis_transaksi, jumlah from transaksi where tanggal = "2009-11-21" order by' at line 1
MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where tanggal = 2009-11-21 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 'select_jenis_transaksi, jumlah from transaksi where tanggal = 2009-11-21 order by' at line 1
MariaDB [perbankan]> select jenis_transaksi, jumlah from transaksi where tanggal = 2009-11-21 order by
-> jumlah;
ERROR 1054 (42S22): Unknown column 'jenis' in 'field list'
MariaDB [perbankan]> select nama_nasabah, jenis_transaksi, jumlah from nasabah, transaksi where nasabah.id_nasabah_transaksi.id_nasabahFK and jumlah = 20000;
ERROR 1054 (42S22): Unknown column 'jenis' in 'field list'
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. Menampilkan nama nasabah, jenis transaksi dan jumlah transaksi dimana jumlah transaksi = Rp.20.000 dengan perintah:

“select nama_nasabah, jenis_transaksi, jumlah from nasabah, transaksi where nasabah.id_nasabah_transaksi.id_nasabahFK and jumlah = 20.000;”

```
Command Prompt - mysql -u root
MariaDB [perbankan]> select nama_nasabah, jenis_transaksi, jumlah from nasabah, transaksi where nasabah.id_nasabah_transaksi.id_nasabahFK and jumlah = 20000;
+-----+-----+-----+
| nama_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+
| Sutopo       | kredit         | 20000  |
| Maryati      | kredit         | 20000  |
| Suparman     | kredit         | 20000  |
| Budi Eko Prayogo | kredit       | 20000  |
| Satria Eka Jaya | kredit       | 20000  |
| Sari Murti   | kredit         | 20000  |
| Canka Lokananta | kredit       | 20000  |
| Budi Murtono | kredit         | 20000  |
| Bayu         | kredit         | 20000  |
| Aji          | kredit         | 20000  |
| Wawan        | kredit         | 20000  |
| Aldi         | kredit         | 20000  |
| Aldi         | kredit         | 20000  |
| Gilang       | kredit         | 20000  |
| Fuad         | kredit         | 20000  |
| Hilmi        | kredit         | 20000  |
| Cahyo        | kredit         | 20000  |
| Angga        | kredit         | 20000  |
| Sutopo       | debit         | 20000  |
| Maryati      | debit         | 20000  |
| Suparman     | debit         | 20000  |
| Kartika Padmasari | debit       | 20000  |
| Satria Eka Jaya | debit         | 20000  |
| Sari Murti   | debit         | 20000  |
| Canka Lokananta | debit       | 20000  |
| Budi Murtono | debit         | 20000  |
| Bayu         | debit         | 20000  |
| Aji          | debit         | 20000  |
| Wawan        | debit         | 20000  |
| Aldi         | debit         | 20000  |
| Aldi         | debit         | 20000  |
| Gilang       | debit         | 20000  |
| Fuad         | debit         | 20000  |
| Hilmi        | debit         | 20000  |
| Cahyo        | debit         | 20000  |
| Angga        | debit         | 20000  |
| Sutopo       | kredit         | 20000  |
| Maryati      | kredit         | 20000  |
| Suparman     | kredit         | 20000  |
| Budi Eko Prayogo | kredit       | 20000  |
| Satria Eka Jaya | kredit       | 20000  |
| Sari Murti   | kredit         | 20000  |
| Canka Lokananta | kredit       | 20000  |
| Budi Murtono | kredit         | 20000  |
| Bayu         | kredit         | 20000  |
| Aji          | kredit         | 20000  |
+-----+-----+-----+
```

```
Command Prompt - mysql -u root
+-----+-----+-----+
| Bayu   | kredit | 20000 |
| Aji    | kredit | 20000 |
| Wawan  | kredit | 20000 |
| Aldi   | kredit | 20000 |
| Aldi   | kredit | 20000 |
| Gilang | kredit | 20000 |
| Fuad   | kredit | 20000 |
| Hilmi  | kredit | 20000 |
| Cahyo  | kredit | 20000 |
| Angga  | kredit | 20000 |
| Sutopo | debit  | 20000 |
| Maryati | debit  | 20000 |
| Superman | debit  | 20000 |
| Kartika Padmasari | debit  | 20000 |
| Satria Eka Jaya | debit  | 20000 |
| Sari Murti | debit  | 20000 |
| Canka Lokananta | debit  | 20000 |
| Budi Murtono | debit  | 20000 |
| Bayu   | debit  | 20000 |
| Aji    | debit  | 20000 |
| Wawan  | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Gilang | debit  | 20000 |
| Fuad   | debit  | 20000 |
| Hilmi  | debit  | 20000 |
| Cahyo  | debit  | 20000 |
| Angga  | debit  | 20000 |
| Sutopo | debit  | 20000 |
| Maryati | debit  | 20000 |
| Superman | debit  | 20000 |
| Kartika Padmasari | debit  | 20000 |
| Budi Eko Prayogo | debit  | 20000 |
| Satria Eka Jaya | debit  | 20000 |
| Sari Murti | debit  | 20000 |
| Budi Murtono | debit  | 20000 |
| Bayu   | debit  | 20000 |
| Aji    | debit  | 20000 |
| Wawan  | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Gilang | debit  | 20000 |
| Fuad   | debit  | 20000 |
| Hilmi  | debit  | 20000 |
| Cahyo  | debit  | 20000 |
| Angga  | debit  | 20000 |
+-----+-----+-----+
98 rows in set (0.001 sec)

MariaDB [perbankan]>
```

5. Menampilkan nama nasabah dan alamat nasabah dimana nama nasabah diawali dengan kata “su” dengan perintah:
“select nama_nasabah, alamat_nasabah from nasabah where nama_nasabah like “su%”;

```
Command Prompt - mysql -u root
+-----+-----+-----+
| Angga  | debit  | 20000 |
| Sutopo | debit  | 20000 |
| Maryati | debit  | 20000 |
| Superman | debit  | 20000 |
| Kartika Padmasari | debit  | 20000 |
| Satria Eka Jaya | debit  | 20000 |
| Sari Murti | debit  | 20000 |
| Canka Lokananta | debit  | 20000 |
| Budi Murtono | debit  | 20000 |
| Bayu   | debit  | 20000 |
| Aji    | debit  | 20000 |
| Wawan  | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Gilang | debit  | 20000 |
| Fuad   | debit  | 20000 |
| Hilmi  | debit  | 20000 |
| Cahyo  | debit  | 20000 |
| Angga  | debit  | 20000 |
| Sutopo | debit  | 20000 |
| Maryati | debit  | 20000 |
| Superman | debit  | 20000 |
| Kartika Padmasari | debit  | 20000 |
| Budi Eko Prayogo | debit  | 20000 |
| Satria Eka Jaya | debit  | 20000 |
| Sari Murti | debit  | 20000 |
| Budi Murtono | debit  | 20000 |
| Bayu   | debit  | 20000 |
| Aji    | debit  | 20000 |
| Wawan  | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Aldi   | debit  | 20000 |
| Gilang | debit  | 20000 |
| Fuad   | debit  | 20000 |
| Hilmi  | debit  | 20000 |
| Cahyo  | debit  | 20000 |
| Angga  | debit  | 20000 |
+-----+-----+-----+
98 rows in 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 |
| Superman     | Jl. Hasanudin 81 |
+-----+-----+
2 rows in set (0.001 sec)

MariaDB [perbankan]>
```

6. Menampilkan nama nasabah dan nomor transaksi dimana id nasabah adalah “3” dan jenis transaksi adalah “debit” dengan perintah:
“select nama_nasabah, no_transaksi from nasabah, transaksi where id_nasabah = 3 and jenis_transaksi = “debit”;

```
Command Prompt - mysql -u root
MariaDB [perbankan]> select id_nasabah, no_rekening from nasabah, rekening where id_nasabah = '3' and saldo = 50000;
Empty set (0.001 sec)

MariaDB [perbankan]> select id_nasabah, no_rekening from nasabah, rekening where id_nasabah = '3' and saldo = 50000 and pin = 1111;
Empty set (0.001 sec)

MariaDB [perbankan]> select id_nasabah, no_rekening, pin from nasabah, rekening where id_nasabah = '3' and saldo = 50000 and pin = 1111;
Empty set (0.001 sec)

MariaDB [perbankan]> select id_nasabah, no_rekening, pin from nasabah, rekening where id_nasabah = '3' and saldo = 50000 and pin = 1111;
Empty set (0.001 sec)

MariaDB [perbankan]> select id_nasabah, no_rekening from nasabah, rekening where id_nasabah = '3' and saldo = 50000;
Empty set (0.001 sec)

MariaDB [perbankan]> select nama_nasabah, no_transaksi from nasabah, transaksi where id_nasabah = 3 and jenis_transaksi = 'debit' ;
+-----+-----+
| nama_nasabah | no_transaksi |
+-----+-----+
| Suparman     | 1            |
| Suparman     | 2            |
| Suparman     | 4            |
| Suparman     | 8            |
| Suparman     | 10           |
| Suparman     | 11           |
| Suparman     | 12           |
| Suparman     | 14           |
| Suparman     | 17           |
| Suparman     | 18           |
| Suparman     | 19           |
| Suparman     | 23           |
| Suparman     | 24           |
| Suparman     | 25           |
| Suparman     | 26           |
| Suparman     | 29           |
| Suparman     | 30           |
| Suparman     | 31           |
| Suparman     | 33           |
| Suparman     | 35           |
| Suparman     | 37           |
| Suparman     | 39           |
| Suparman     | 42           |
| Suparman     | 44           |
| Suparman     | 46           |
| Suparman     | 48           |
| Suparman     | 50           |
+-----+-----+
27 rows in set (0.001 sec)

MariaDB [perbankan]>
```

7. Menampilkan id_nasabah, nama_nasabah, dan nomor transaksi dimana alamat nasabah = Jl.Tidar No.86,jenis transaksi adalah kredit dan jumlah transaksi 150.000 dengan perintah:
“select id_nasabah, nama_nasabah, no_transaksi from nasabah, transaksi where alamat_nasabah = ‘Jl. Tidar 86’ and jenis_transaksi = ‘kredit’ and jumlah = 150000;”

```
Command Prompt - mysql -u root
MariaDB [perbankan]> select id_nasabah, no_rekening, pin from nasabah, rekening where id_nasabah = '3' and saldo = 50000 and pin = 1111;
Empty set (0.001 sec)

MariaDB [perbankan]> select id_nasabah, no_rekening from nasabah, rekening where id_nasabah = '3' and saldo = 50000;
Empty set (0.001 sec)

MariaDB [perbankan]> select nama_nasabah, no_transaksi from nasabah, transaksi where id_nasabah = 3 and jenis_transaksi = 'debit' ;
+-----+-----+
| nama_nasabah | no_transaksi |
+-----+-----+
| Suparman     | 1            |
| Suparman     | 2            |
| Suparman     | 4            |
| Suparman     | 8            |
| Suparman     | 10           |
| Suparman     | 11           |
| Suparman     | 12           |
| Suparman     | 14           |
| Suparman     | 17           |
| Suparman     | 18           |
| Suparman     | 19           |
| Suparman     | 23           |
| Suparman     | 24           |
| Suparman     | 25           |
| Suparman     | 26           |
| Suparman     | 29           |
| Suparman     | 30           |
| Suparman     | 31           |
| Suparman     | 33           |
| Suparman     | 35           |
| Suparman     | 37           |
| Suparman     | 39           |
| Suparman     | 42           |
| Suparman     | 44           |
| Suparman     | 46           |
| Suparman     | 48           |
| Suparman     | 50           |
+-----+-----+
27 rows in set (0.001 sec)

MariaDB [perbankan]> select id_nasabah, nama_nasabah, no_transaksi from nasabah, transaksi where alamat_nasabah = 'Jl. Tidar 86' and jenis_transaksi = 'kredit' and jumlah = 150000;
+-----+-----+-----+
| id_nasabah | nama_nasabah | no_transaksi |
+-----+-----+-----+
| 9          | Canka Iokananta | 7          |
+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [perbankan]>
```

8. Menampilkan semua kolom dari table nasabah diurutkan berdasarkan id nasabah dan hanya menampilkan 10 baris setelah melewati baris pertama dengan perintah:
“select * from nasabah order by id_nasabah limit 10 offset 5;”

```
Command Prompt - mysql -u root

Suparman | 12
Suparman | 14
Suparman | 17
Suparman | 18
Suparman | 19
Suparman | 23
Suparman | 24
Suparman | 25
Suparman | 26
Suparman | 29
Suparman | 30
Suparman | 31
Suparman | 33
Suparman | 35
Suparman | 37
Suparman | 39
Suparman | 42
Suparman | 44
Suparman | 46
Suparman | 48
Suparman | 50
-----
27 rows in set (0.001 sec)

MariaDB [perbankan]> select id_nasabah, nama_nasabah, no_transaksi from nasabah, transaksi where alamat_nasabah = 'Jl. Tidar 86' and jenis_transaksi = 'kredit' and jumlah = 150000;
+-----+-----+-----+
id_nasabah | nama_nasabah | no_transaksi |
+-----+-----+-----+
9 | Canka Lokananta | 7 |
+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [perbankan]> select * from nasabah order by id_nasabah limit 10 offset 5;
+-----+-----+-----+
id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
8 | Sari Murti | Jl. Pangdaran 11 |
9 | Canka Lokananta | Jl. Tidar 86 |
10 | Budi Murtoto | Jl. Herak 22 |
11 | Bayu | Jl. Apel 22 |
12 | Aji | Jl. Duku 18 |
13 | Mawan | Jl. Alpukat 06 |
14 | Aldi | Jl. Belimbing 35 |
15 | Alidi | Jl. Sate 7 |
16 | Gilang | Jl. Melati 11 |
+-----+-----+-----+
10 rows in set (0.001 sec)

MariaDB [perbankan]>
```

9. Menampilkan sebuah soal menggunakan kondisi pencarian string dan pencarian NULL dengan perintah:
“select nama_nasabah, no_transaksi from nasabah, transaksi where nama_nasabah like ‘Su%’ and jumlah is NULL;”

```
Command Prompt - mysql -u root

C:\Users\ACER>cd ..
C:\Users>cd ..
C:\Users>cd ..
C:\>cd xampp
C:\xampp>cd mysql
C:\xampp\mysql>cd bin
C:\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;
ERROR 1049 (42000): Unknown database 'perbankan'
MariaDB [(none)]> use perbankan;
Database changed
MariaDB [perbankan]> select nama_nasabah, no_transaksi from nasabah,transaksi where nama_nasabah like 'Su%' and jumlah is null;
Empty set (0.018 sec)

MariaDB [perbankan]>
```

10. Menampilkan semua kolom pada table nasabah dimana nama nasabah diawali dengan huruf “A” dan alamat nasabah tidak NULL diurutkan berdasarkan id nasabah serta hanya menampilkan 3 baris setelah melewati baris kedua dengan perintah:

**“select * from nasabah where nama_nasabah like ‘A%’ and alamat_nasabah IS NOT NULL
order by id_nasabah limit 3 offset 2;”**

```
Command Prompt - mysql -u root
C:\xampp>cd mysql
C:\xampp\mysql>mysql -u root
'mysql' is not recognized as an internal or external command,
operable program or batch file.
C:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
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 where nama_nasabah like 'A%' and alamat_nasabah IS NOT NULL order by id_nasabah limit 3 offset 2;
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 15 | Aldi | Jl. Sawo 7 |
| 20 | Angga | Jl. Kedondong 2 |
+-----+-----+-----+
2 rows in set (0.001 sec)

MariaDB [perbankan]>
```