

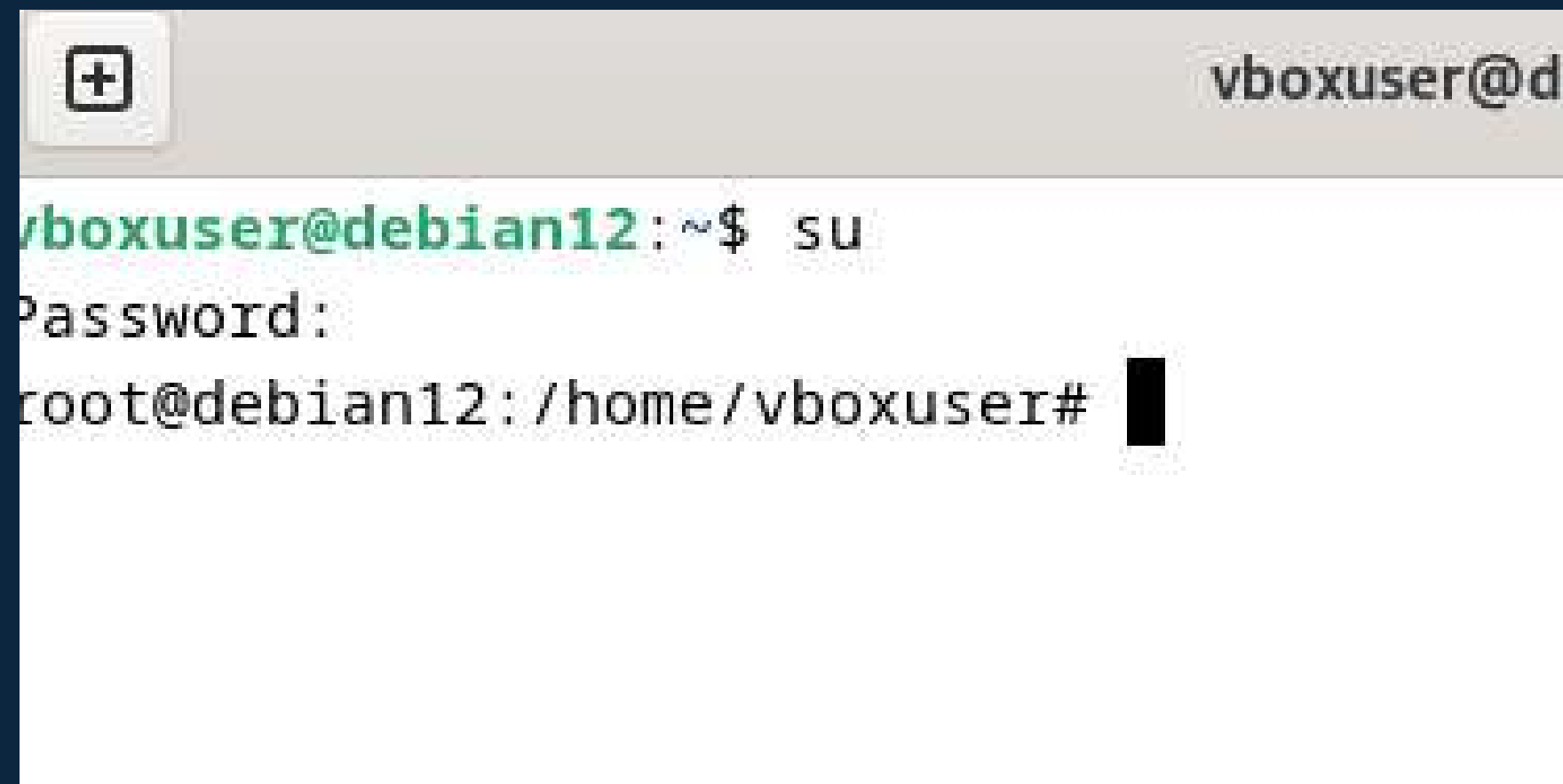
🎓 by jason julius tjandra

KONFIGURASI WEB SERVER DAN DATABASE SERVER PAD DEBIAN 12





LANGKAH 1



```
vboxuser@d  
vboxuser@debian12:~$ su  
Password:  
root@debian12:/home/vboxuser#
```

PERTAMA LOGIN KE DEBAIN 12
KITA LALU MASUK KE TERMINAL
DAN LOGIN





LANGKAH 2

```
vboxuser@debian12: ~  
root@debian12:/home/vboxuser# ping 8.8.8.8  
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.  
64 bytes from 8.8.8.8: icmp_seq=1 ttl=114 time=93.9 ms  
64 bytes from 8.8.8.8: icmp_seq=2 ttl=114 time=1033 ms  
64 bytes from 8.8.8.8: icmp_seq=3 ttl=114 time=125 ms  
64 bytes from 8.8.8.8: icmp_seq=4 ttl=114 time=1825 ms  
64 bytes from 8.8.8.8: icmp_seq=5 ttl=114 time=825 ms  
^C  
--- 8.8.8.8 ping statistics ---  
6 packets transmitted, 5 received, 16.6667% packet loss, time 5038ms  
rtt min/avg/max/mdev = 93.886/780.255/1825.215/641.657 ms, pipe 2  
root@debian12:/home/vboxuser#
```

LALU KITA LAKUKAN UJI KONEKSI DENGAN PING 8.8.8.8
JIKA TAMPILAN SUDAH SEPERTI DI GAMBAR MAKA
ARTINYA KONEKSI KITA BERHASIL LALU KITA KETIK "CTRL+C"



LANGKAH 3

```
root@debian12:/home/vboxuser# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc n
t qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:0
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mt
oup default qlen 1000
    link/ether 08:00:27:26:0b:f9 brd ff:ff:ff:f
    inet 192.168.1.89/24 brd 192.168.1.255 scop
```

```
C:\WINDOWS\system32\cmd.  X  +  v

Microsoft Windows [Version 10.0.22631.4317]
(c) Microsoft Corporation. All rights reserved.

C:\Users\jonathan>ping 192.168.1.89

Pinging 192.168.1.89 with 32 bytes of data:
Reply from 192.168.1.89: bytes=32 time=4ms TTL=64
Reply from 192.168.1.89: bytes=32 time=1ms TTL=64
Reply from 192.168.1.89: bytes=32 time=1ms TTL=64
Reply from 192.168.1.89: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.1.89:
```

LALU KITA COBA UJI KONEKSI LAGI DENGAN MENGETIK IP A
LALU AKAN MUNCUL IP KITA KEMUDIAN
TEKAN TOMBOL WINDOWS + R LALU KETIK CMD SETELAH ASMUK CMD
KALIAN KETIK PING DAN MASUKAN IP KALIAN



LANGKAH 4

```
root@debian12:/home/vboxuser# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils
```

KEMUDIAN KITA KETIK APT INSTALL
APACHE2 DAN TUNGGU SAMPAI PROSES
NYA SELESAI





LANGKAH 5

```
oot@debian12:/home/vboxuser# apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following package was automatically installed and is no longer required:
libdbus-glib-1-2
```

KEMUDIAN KITA KETIK APT-GET
UPGRADE (HURUF KECIL SEMUA) LALU
TUNGGU PROSES NYA SAMPAI SELESAI





LANGKAH 6

```
eed to get 179 MB of archives.  
fter this operation, 34.0 MB of additional disk space will be used.  
o you want to continue? [Y/n] y  
et:1 http://security.debian.org/debian-security bookworm-security/main amd64 firefox-esr  
et:2 http://security.debian.org/debian-security bookworm-security/main amd64 gir1.2-webk  
et:3 http://security.debian.org/debian-security bookworm-security/main amd64 gir1.2-java  
et:4 http://security.debian.org/debian-security bookworm-security/main amd64 libwebkit2g  
et:5 http://security.debian.org/debian-security bookworm-security/main amd64 libjavascri  
7% [5 libjavascriptcoregtk-4.0-18 4,323 kB/7,828 kB 55%]
```

DAN JIKA MUNCUL TULISAN SEPERTI INI
KALIAN KETIK Y LALU ENTER





LANGKAH 7

```
Processing triggers for ncolab-icon-theme (0.17-2) ...  
Processing triggers for gnome-menus (3.36.0-1.1) ...  
root@debian12:/home/vboxuser# sudo apt install mariadb-server mariadb-client -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following package was automatically installed and is no longer required:  
  libdbus-glib-1-2  
Use 'sudo apt autoremove' to remove it.  
The following additional packages will be installed:
```

**BERIKUT NYA KALIAN KETIK
SUDO APT INSTALL MARIADB-SERVER
MARIADB-CLIENT -Y**





LANGKAH 8

```
Switch to unix_socket authentication [Y/n] y
Enabled successfully!
Reloading privilege tables..
... Success!
```

You already have your root account protected, so you can safely answer 'n'.

```
Change the root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!
```

**JIKA MUNCUL PERTANYAAN Y/N KALIAN
PILIH Y DAN ENTER LAKUKAN HAL
TERSEBUT SAMPAI AKHIR**

production environment.

```
Remove anonymous users? [Y/n] y
... Success!
```

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.

```
Disallow root login remotely? [Y/n] y
... Success!
```

By default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.

```
Remove test database and access to it? [Y/n] y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!
```

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

```
Reload privilege tables now? [Y/n] y
... Success!
```

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!
root@debian12: /home/vboxuser#



LANGKAH 9

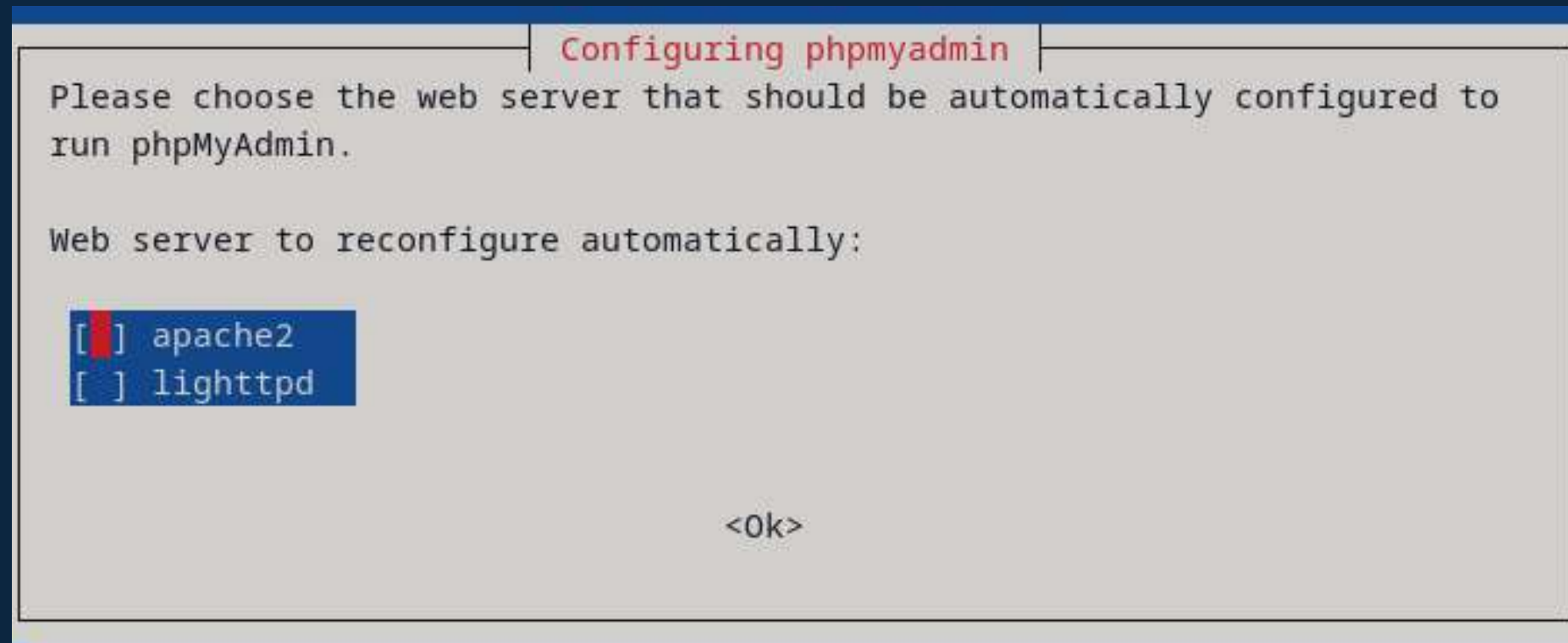
```
Thanks for using MariaDB!  
root@debian12:/home/vboxuser# apt install phpmyadmin php -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following package was automatically installed and is no longer required:  
  libdbus-glib-1-2  
Use 'apt autoremove' to remove it.  
The following additional packages will be installed:  
  dbconfig-common dbconfig-mysql icc-profiles-free libapache2-mod-php8.2 libjs-c  
  libis-igquery-mousewheel libis-igquery-tablesorter libis-igquery-timenicker libis
```

KEMUDIAN KITA KETIK APT INSTALL
PHPMYADMIN PHP -Y DAN TUNGGU
PROSES NYA SAMPAI SELESAI





LANGKAH 10



Configuring phpmyadmin

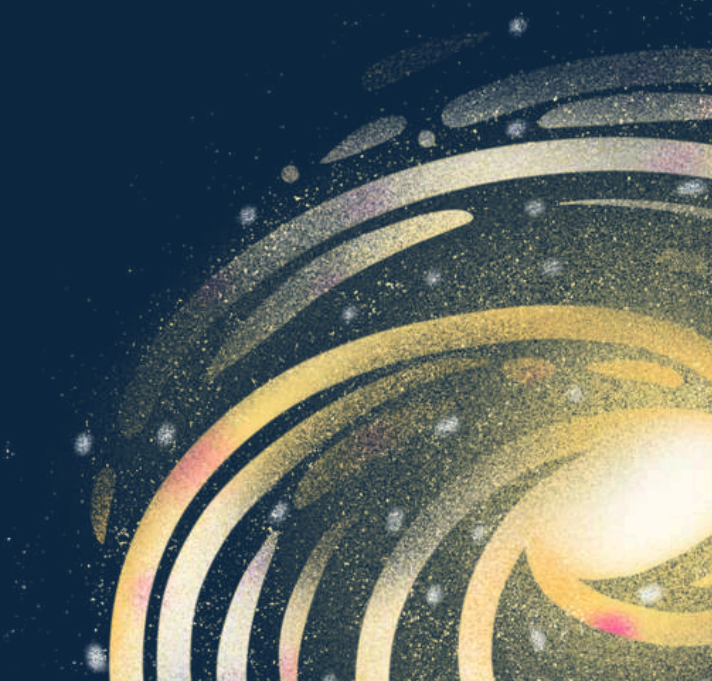
Please choose the web server that should be automatically configured to run phpMyAdmin.

Web server to reconfigure automatically:

☒ apache2
☐ lighttpd

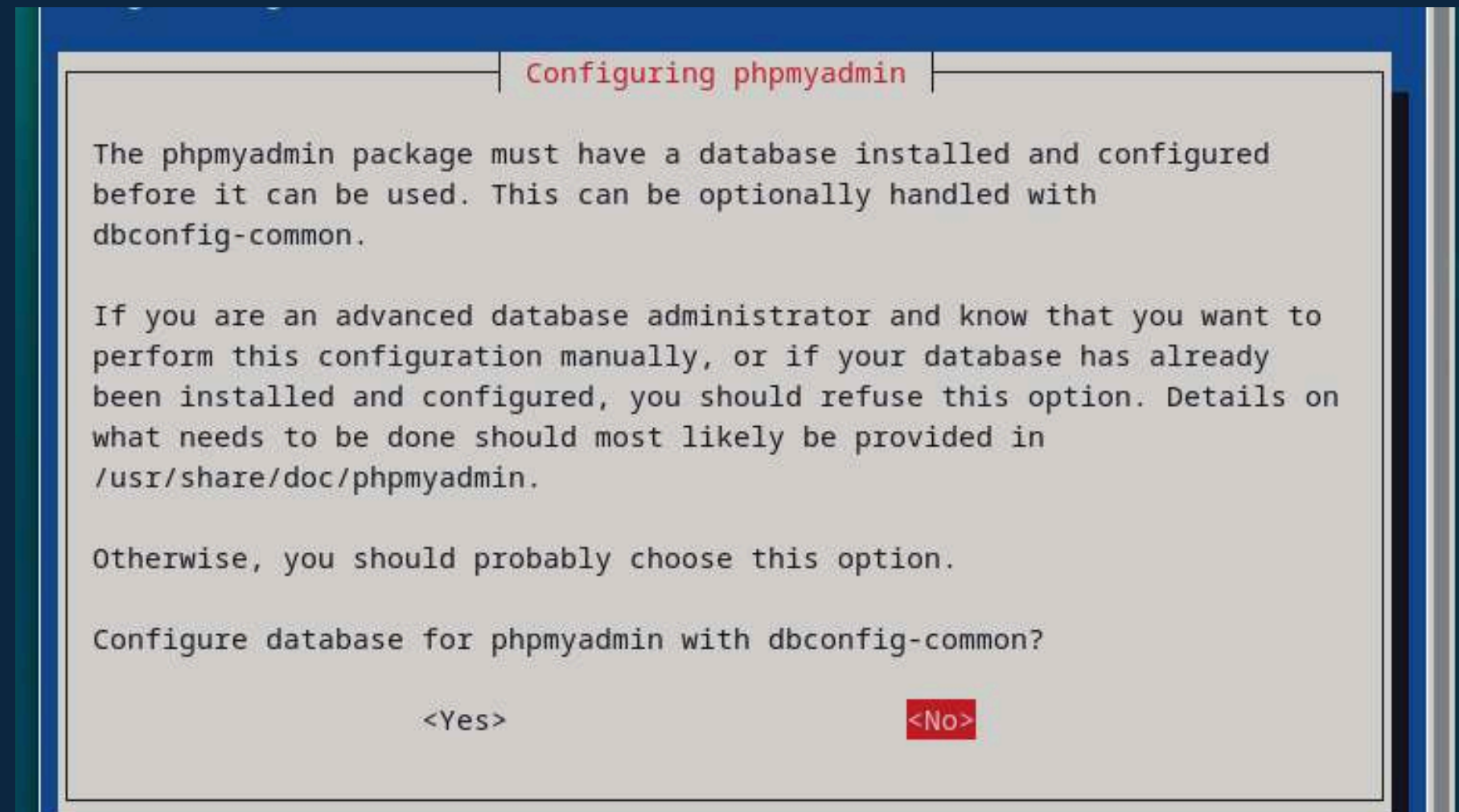
<Ok>

JIKA ADA TULISAN/PESAN SEPERTI INI
PILIH YANG APACHE 2 DENGAN TOMBOL
SPACE PADA KEYBOARD DAN OK





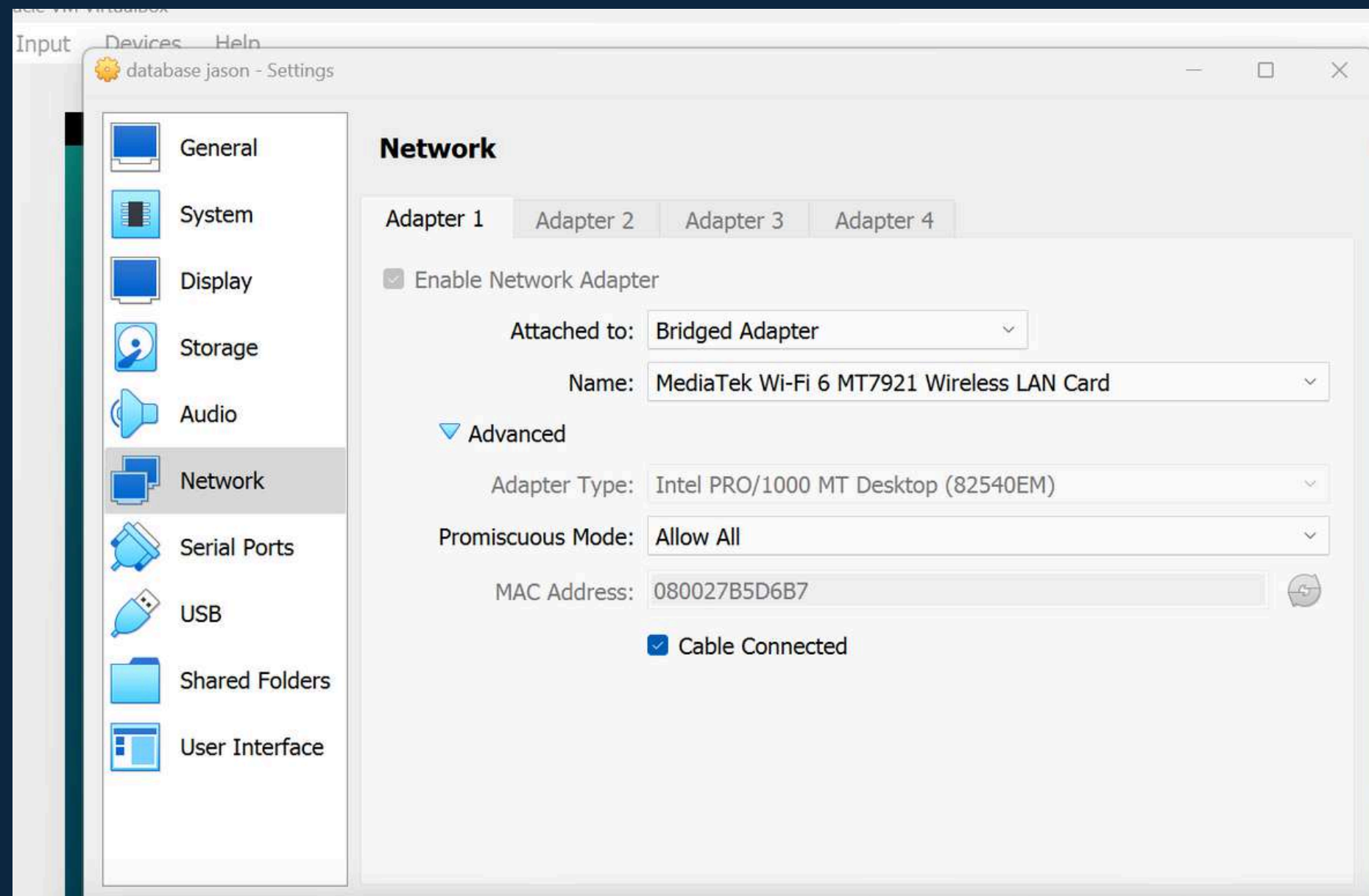
LANGKAH 11



JIKA ADA TULISAN/PESAN SEPERTI INI
PILIH NO



LANGKAH 12



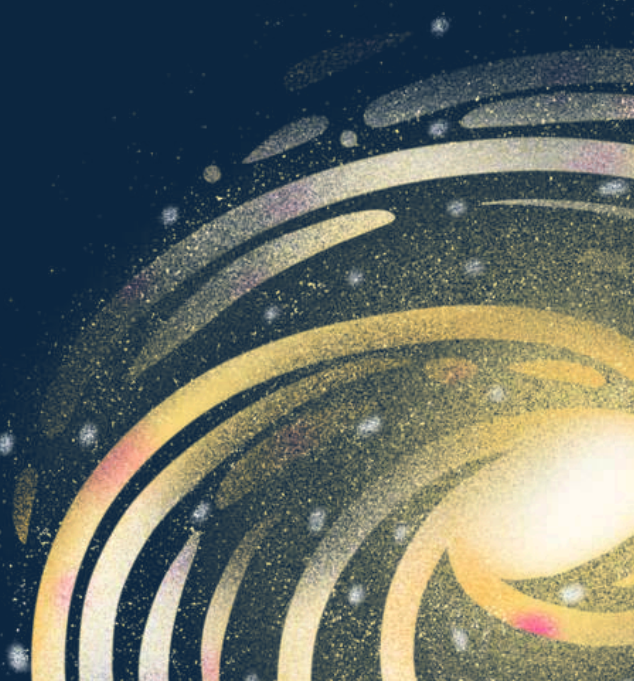
MASUK KE SETTINGS
DAN PASTIKAN
ATTACHED NYA KE
BRIDGE ADAPTER DAN
PROMICUOUS
MODENYA ALLOW ALL

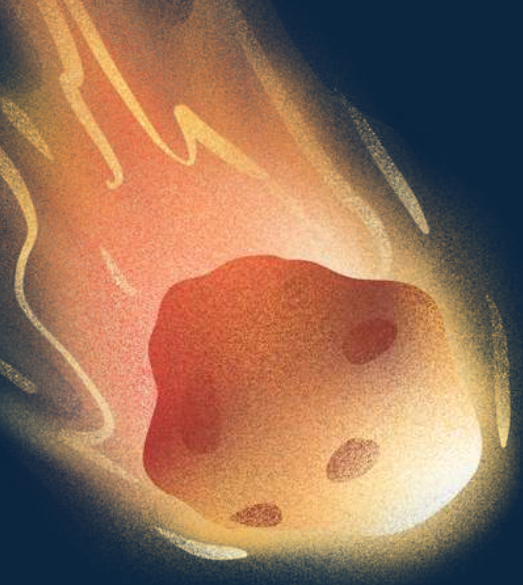


LANGKAH 13

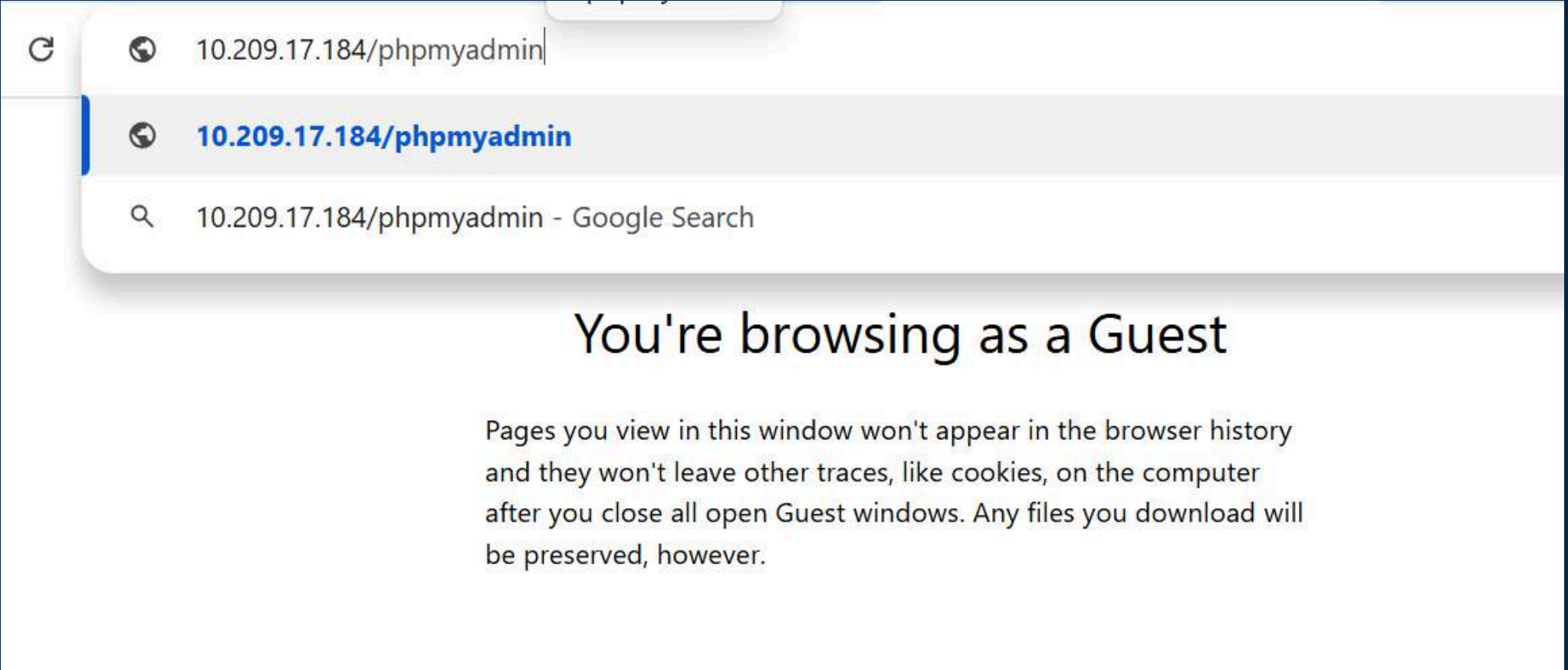
```
Processing triggers for libapache2-mod-php8.2 (8.2.24-1~deb12u1) ...
root@debian12:/home/vboxuser# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:b5:d6:b7 brd ff:ff:ff:ff:ff:ff
    inet 10.209.17.184/24 brd 10.209.17.255 scope global dynamic noprefixroute enp0s3
        valid_lft 3166sec preferred_lft 3166sec
    inet6 fe80::a00:27ff:feb5:d6b7/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
root@debian12:/home/vboxuser#
```

KEMUDIAN
KITA KETIK IP
A LAGI UNTUK
MEMERIKSA IP
KITA

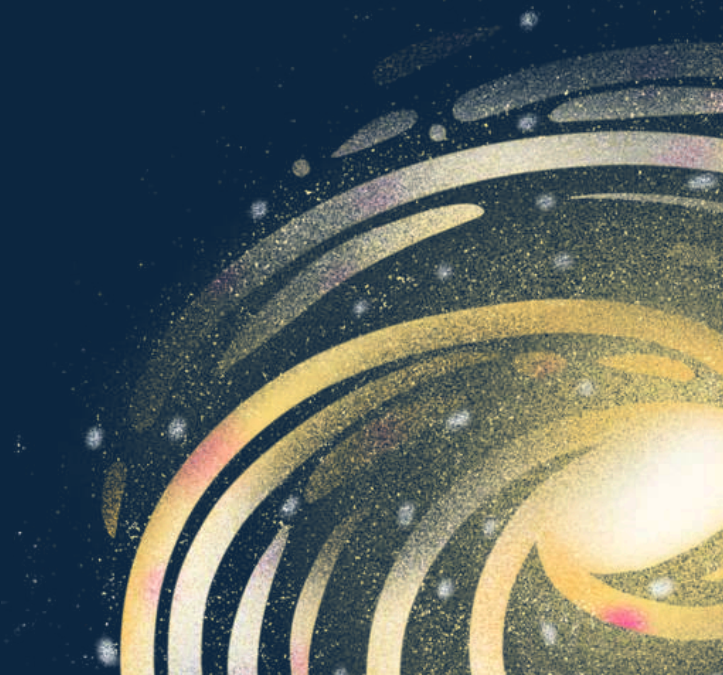


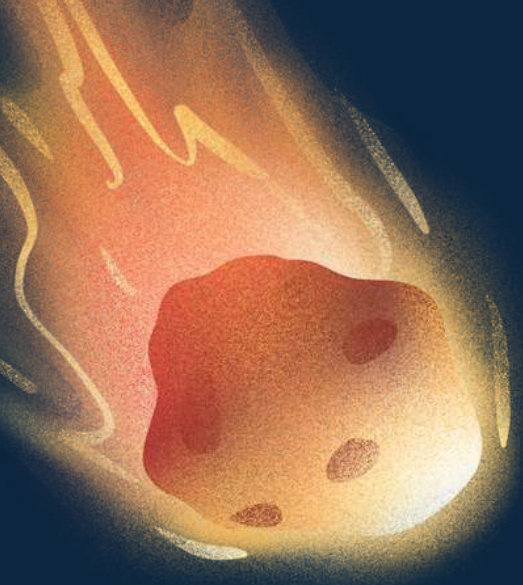


LANGKAH 14




MASUK KE GOOGLE CHROME LALU MASUKAN
IP KITA DARI PERINTAH IP A TADI
KEMUDIAN /PHPMYADMIN





LANGKAH 15

Secure 10.209.17.184/phpmyadmin/



Welcome to phpMyAdmin

Language

English

Log in

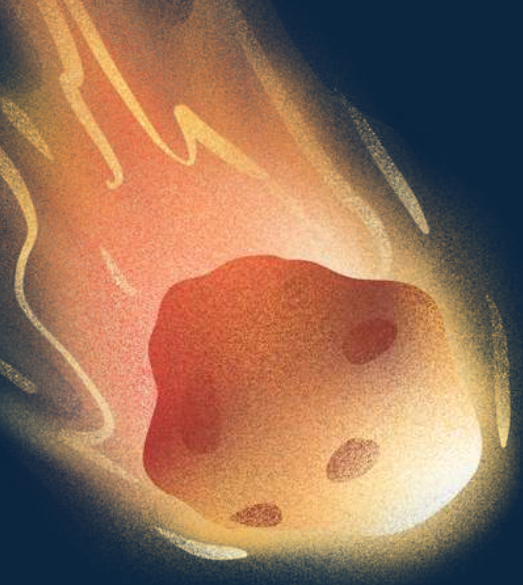
Username: root

Password:

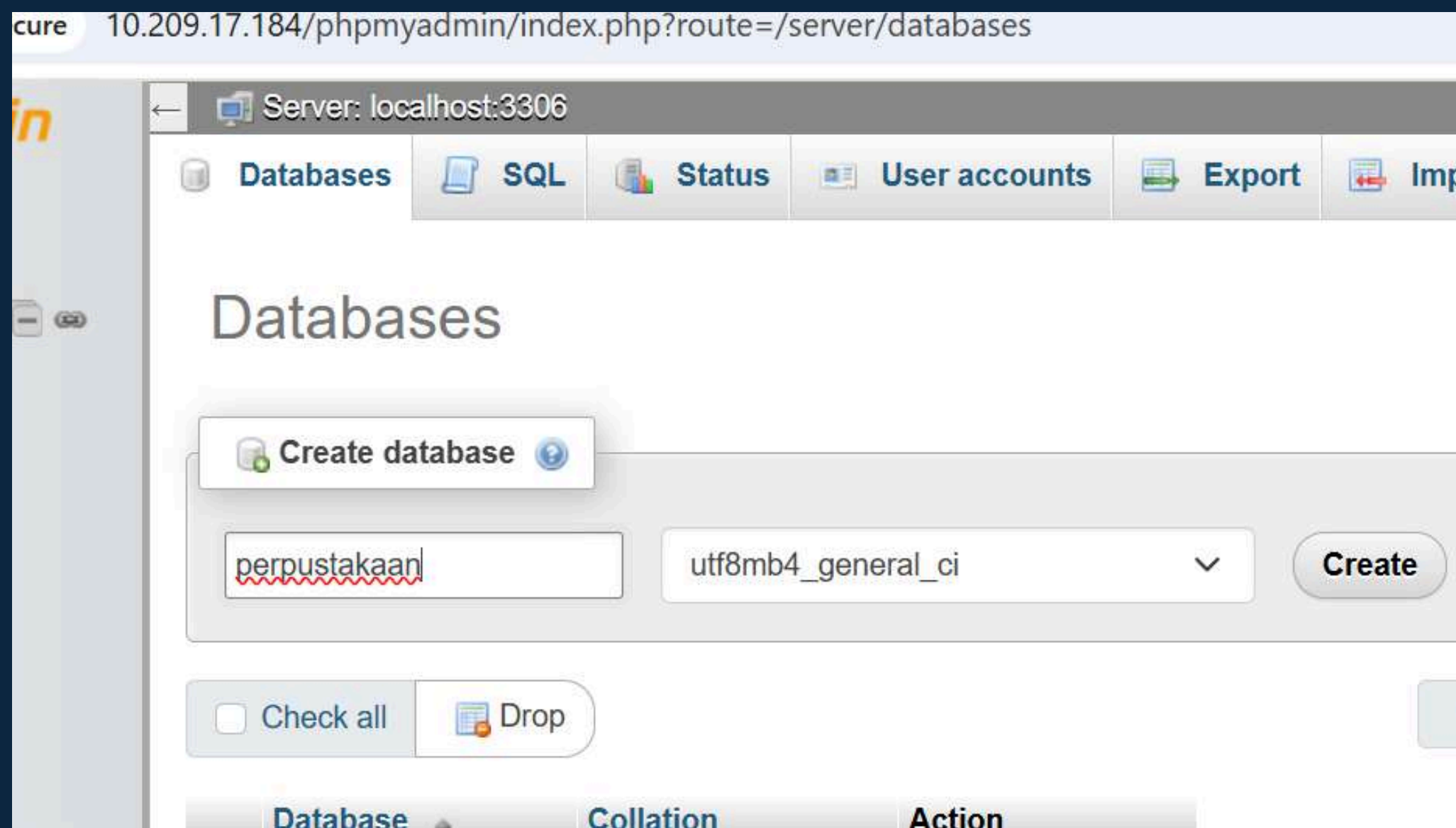
Log in

KEMUDIAN KALIAN
LOGIN DENGAN
USER ROOT DAN
MASUKAN
PASSWORD YANG
SUDAH KITA BUAT
TADI





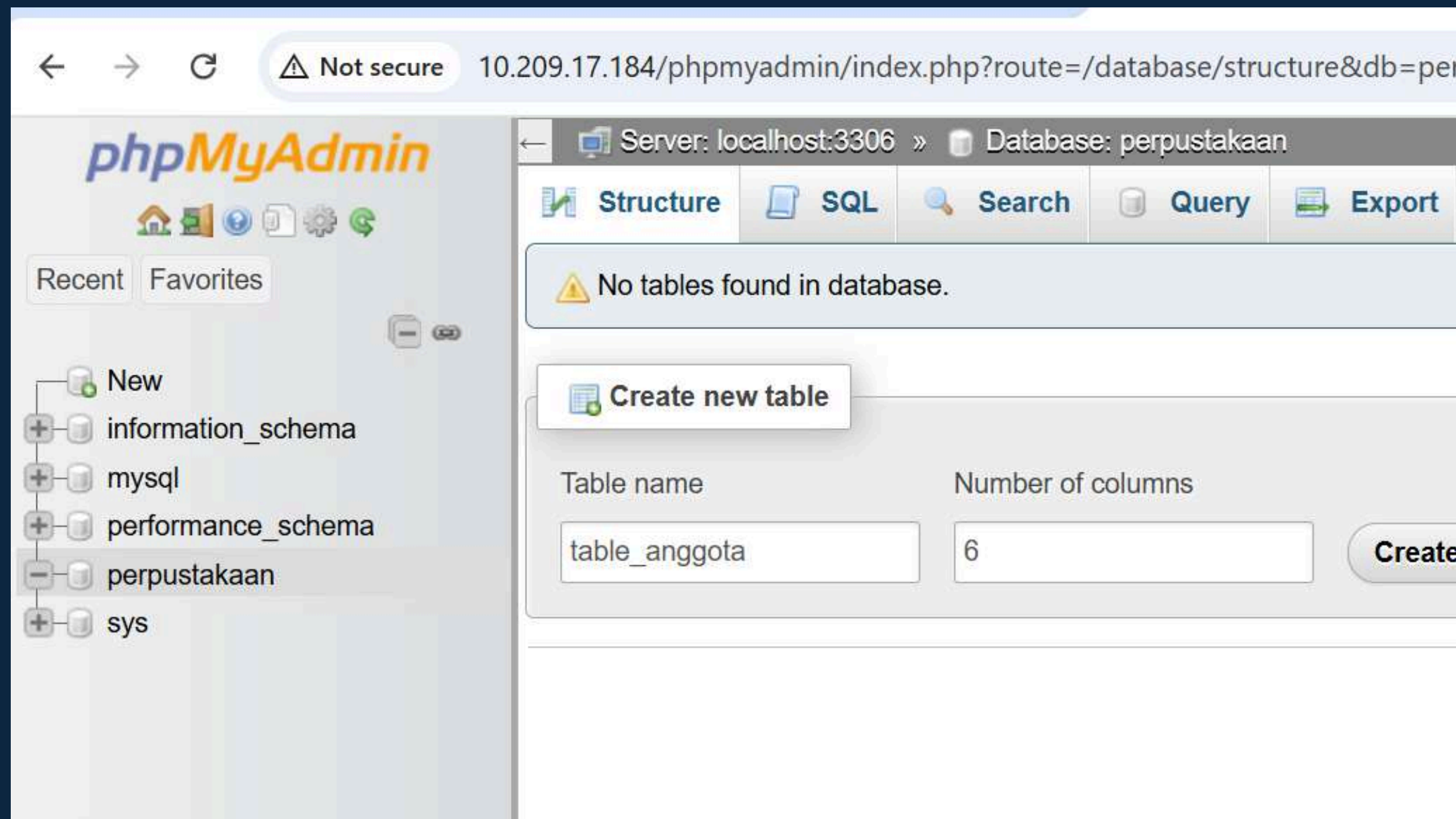
LANGKAH 16



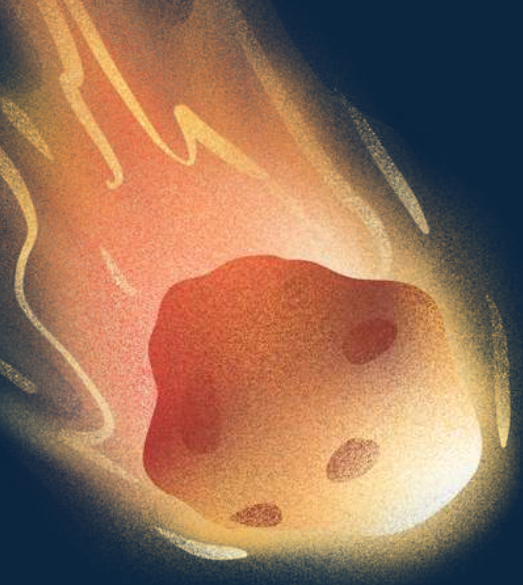
MASUK KE BAGIAN
CREATE DATABASE
LALU KALIAN ISI
DENGAN
"PERPUSTAKAAN"
DAN KEMUDIAN
CREATE



LANGKAH 17



MASUK KE BAGIAN
PERPUSTAKAAN
YANG SUDAH KITA
BUAT LALU CREATE
NEW TABLE UNTUK
NAMA TABLENYA
KITA ISI DENGAN
TABLE_ANGGOTA
ANGKA COLOMNYA
ISI DENGAN 6



LANGKAH 18

Structure SQL Search Query Export Import Operations More

Table name: Add column(s)

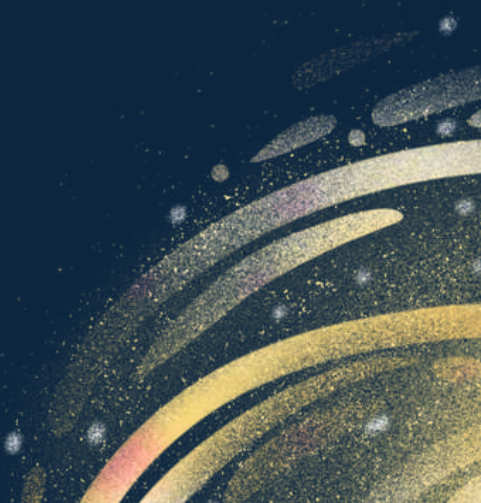
Name	Type	Length/Values	Default	Collation	A
<input type="text" value="id_anggota"/>	<input type="text" value="INT"/>	<input type="text" value="8"/>	<input type="text" value="None"/>	<input type="text"/>	
<input type="text" value="Nama"/>	<input type="text" value="TEXT"/>	<input type="text"/>	<input type="text" value="None"/>	<input type="text"/>	
<input type="text" value="Kota"/>	<input type="text" value="TEXT"/>	<input type="text"/>	<input type="text" value="None"/>	<input type="text"/>	
<input type="text" value="Alamat"/>	<input type="text" value="TEXT"/>	<input type="text"/>	<input type="text" value="None"/>	<input type="text"/>	
<input type="text" value="No_telp"/>	<input type="text" value="INT"/>	<input type="text" value="13"/>	<input type="text" value="None"/>	<input type="text"/>	
<input type="text" value="Tanggal_lahir"/>	<input type="text" value="DATE"/>	<input type="text"/>	<input type="text" value="None"/>	<input type="text"/>	

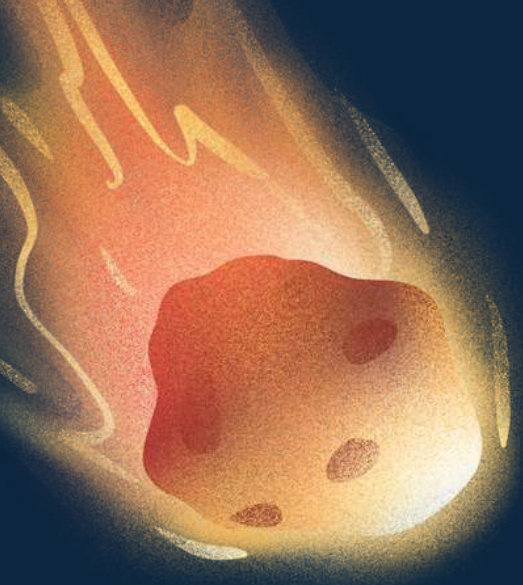
Table comments:

Collation:

Storage Engine:

PASTIKAN KALIAN
ISI TABLE SESUAI
PADA GAMBAR
DISAMPING LALU
KALIAN SAVE





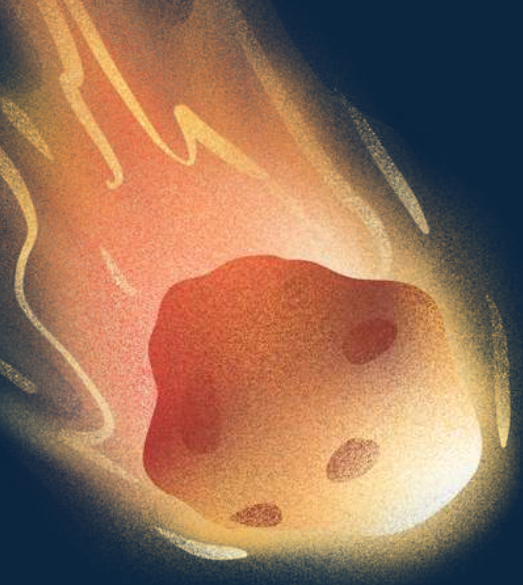
LANGKAH 19

The screenshot shows a 'Create new table' dialog box. It has two input fields: 'Table name' with the text 'table_Pinjam' and 'Number of columns' with the value '5'. A 'Create' button is to the right of the columns field. At the bottom left, there is a 'Console' tab icon.

Table name	Number of columns	Action
table_Pinjam	5	Create

LALU KITA CREATE
NEW TABLE LAGI
UNTUK NAMA
TABEL NYA KITA
KASIH
TABEL_PINJAM
DAN ANGKA
COLOMNYA 5





LANGKAH 20

Table name: Add column(s)

Name	Type	Length/Values	Default	Collation	A
<input type="text" value="No_pinjam"/>	<input type="text" value="INT"/> ▼	<input type="text"/>	<input type="text" value="None"/> ▼	<input type="text"/>	
<input type="text" value="Id_anggota"/>	<input type="text" value="INT"/> ▼	<input type="text"/>	<input type="text" value="None"/> ▼	<input type="text"/>	
<input type="text" value="No_buku"/>	<input type="text" value="INT"/> ▼	<input type="text"/>	<input type="text" value="None"/> ▼	<input type="text"/>	
<input type="text" value="Tanggal_pinjam"/>	<input type="text" value="DATE"/> ▼	<input type="text"/>	<input type="text" value="None"/> ▼	<input type="text"/>	
<input type="text" value="Tanggal_kembali"/>	<input type="text" value="DATE"/> ▼	<input type="text"/>	<input type="text" value="None"/> ▼	<input type="text"/>	

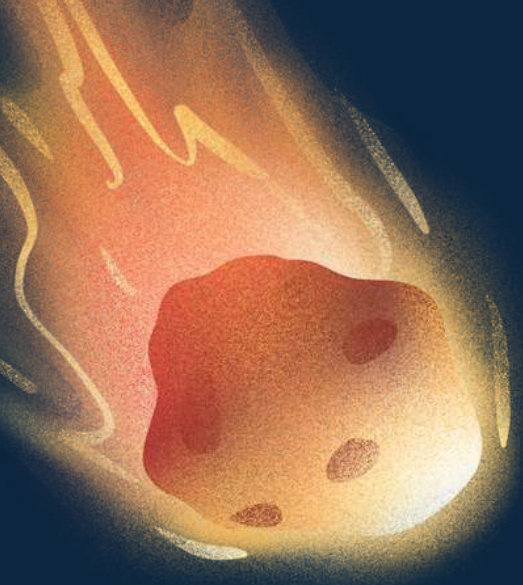
Table comments:

Collation:

Storage Engine: ▼

PASTIKAN KALIAN
ISI TABLE SESUAI
PADA GAMBAR
DISAMPING LALU
KALIAN SAVE





LANGKAH 21

Create new table

Table name:

Number of columns:

Create

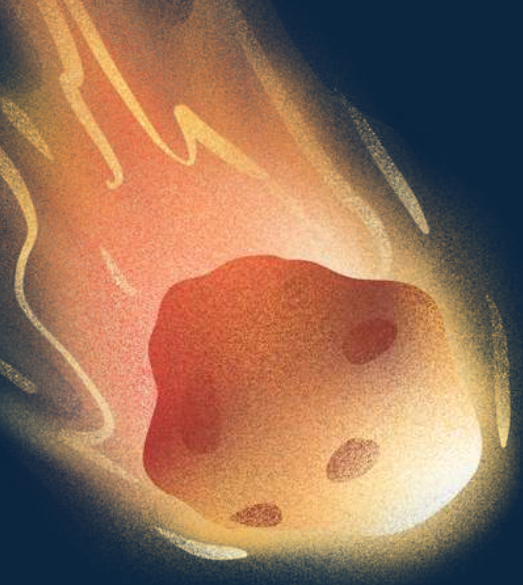
☐ Console

Search

Taskbar icons: File Explorer, Edge, Chrome, WhatsApp, and Start menu.

LALU KITA CREATE
NEW TABLE LAGI
UNTUK NAMA
TABEL NYA KITA
KASIH TABEL_BUKU
DAN ANGKA
COLOMNYA 5





LANGKAH 22

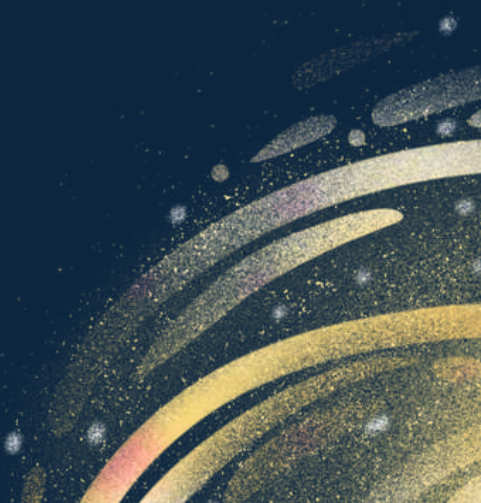
Structure SQL Search Query Export Import Operations More

Table name: Add column(s)

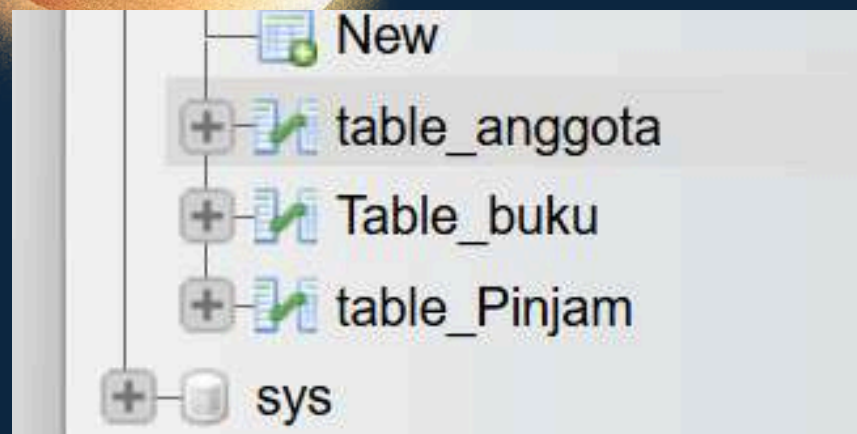
Name	Type	Length/Values	Default	Collation
<input type="text" value="No_pinjam"/>	<input type="text" value="INT"/>	<input type="text" value="8"/>	<input type="text" value="None"/>	<input type="text"/>
<input type="text" value="Id_anggota"/>	<input type="text" value="INT"/>	<input type="text" value="8"/>	<input type="text" value="None"/>	<input type="text"/>
<input type="text" value="No_buku"/>	<input type="text" value="INT"/>	<input type="text"/>	<input type="text" value="None"/>	<input type="text"/>
<input type="text" value="Tanggal_pinjam"/>	<input type="text" value="DATE"/>	<input type="text"/>	<input type="text" value="None"/>	<input type="text"/>
<input type="text" value="Tanggal_kembali"/>	<input type="text" value="DATE"/>	<input type="text"/>	<input type="text" value="None"/>	<input type="text"/>

Table comments: Collation: Storage Engine:

PASTIKAN KALIAN
ISI TABLE SESUAI
PADA GAMBAR
DISAMPING LALU
KALIAN SAVE




























LANGKAH 23






 Primary

Table structure Relation view

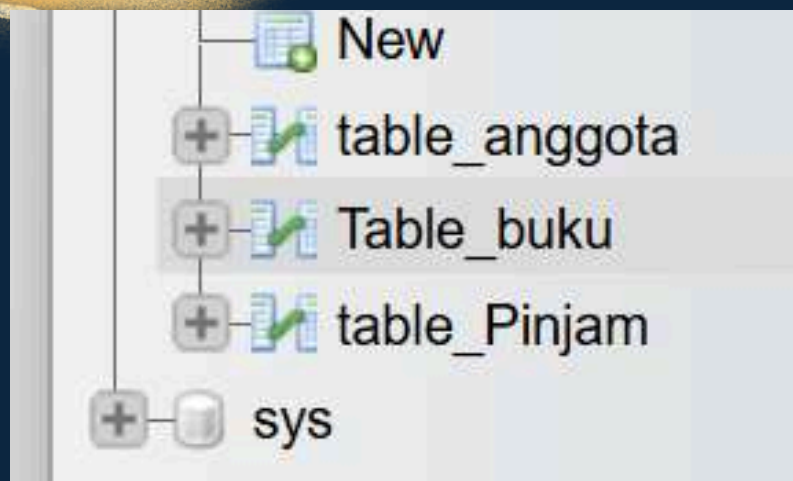
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id_anggota 	int(8)			No	None			 Change  Drop 
<input type="checkbox"/>	2 Nama	text	utf8mb4_general_ci		No	None			 Change  Drop 
<input type="checkbox"/>	3 Kota	text	utf8mb4_general_ci		No	None			 Change  Drop 
<input type="checkbox"/>	4 Alamat	text	utf8mb4_general_ci		No	None			 Change  Drop 
<input type="checkbox"/>	5 No_telp	int(13)			No	None			 Change  Drop 
<input type="checkbox"/>	6 Tanggal_lahir	date			No	None			 Change  Drop 

 ☐ Check all With selected:  Browse  Change  Drop  Primary  Unique

 Index  Spatial  Fulltext

MASUK KE TABEL
ANGGOTA LALU
PADA BAGIAN ID
ANGGOTA KITA
PILIH LALU KITA
BERI PRIMARY

LANGKAH 24


























 Primary  Unique




MASUK KE TABEL
BUKU LALU PADA
BAGIAN ID
ANGGOTA KITA
PILIH LALU KITA
BERI PRIMARY DAN
NO BUKU KITA
PILIH LALU KITA
BERI UNIQUE

[Edit inline] [Edit] [Create PHP code]

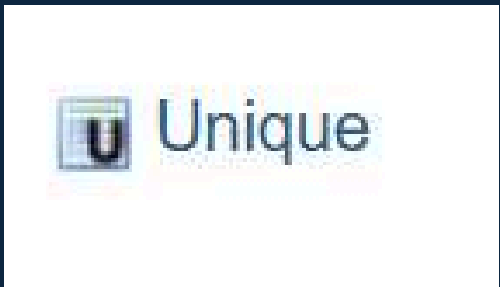
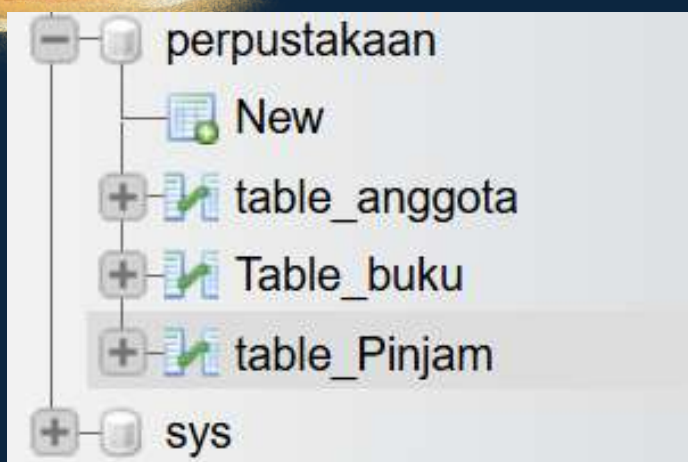
Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	No_pinjam	int(8)			No	None			 Change  Drop  More
<input type="checkbox"/> 2	Id_anggota 	int(8)			No	None			 Change  Drop  More
<input type="checkbox"/> 3	No_buku 	int(11)			No	None			 Change  Drop  More
<input type="checkbox"/> 4	Tanggal_pinjam	date			No	None			 Change  Drop  More
<input type="checkbox"/> 5	Tanggal_kembali	date			No	None			 Change  Drop  More

 ☐ Check all With selected:  Browse  Change  Drop  Primary  Unique

 Index  Spatial  Fulltext

LANGKAH 25



MASUK KE TABEL
PINJAM LALU PADA
BAGIAN ID
ANGGOTA KITA
PILIH LALU KITA
BERI UNIQUE DAN
NO BUKU NYA KITA
PILIH LALU BERI
PRIMARY

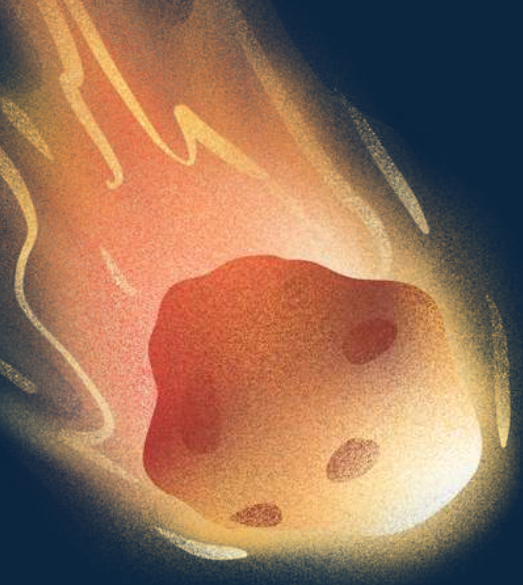
[Edit inline] [Edit] [Create PHP d

Table structure Relation view

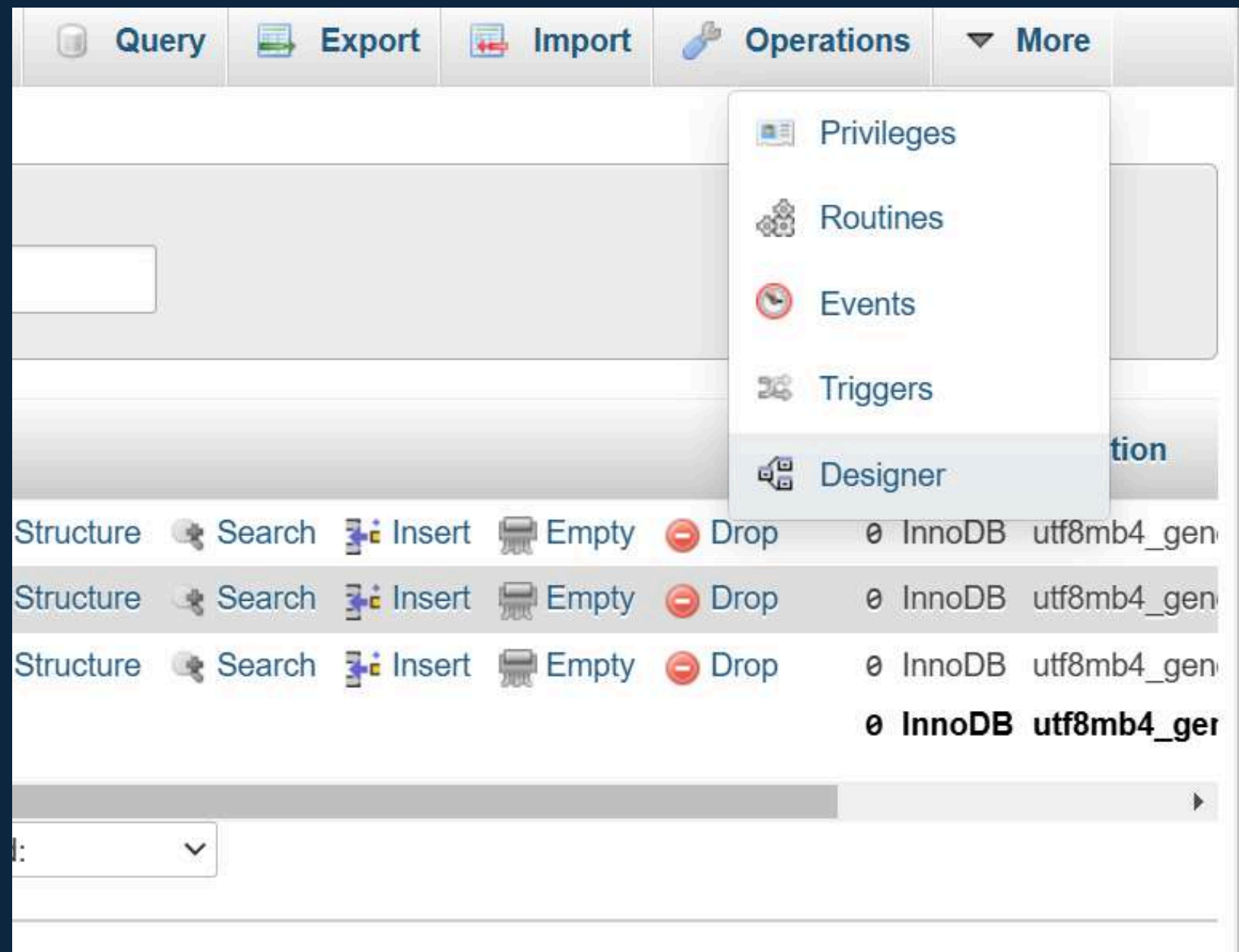
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 No_pinjam	int(11)			No	None			Change Drop More
<input type="checkbox"/>	2 Id_anggota	int(11)			No	None			Change Drop More
<input type="checkbox"/>	3 No_buku	int(11)			No	None			Change Drop More
<input type="checkbox"/>	4 Tanggal_pinjam	date			No	None			Change Drop More
<input type="checkbox"/>	5 Tanggal_kembali	date			No	None			Change Drop More

☐ Check all With selected: Browse Change Drop Primary Unique

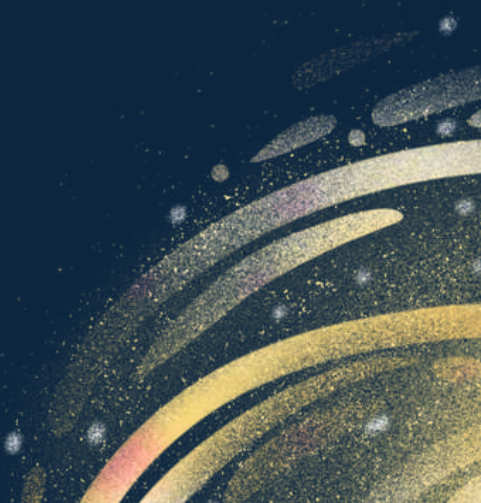
Index Spatial Fulltext

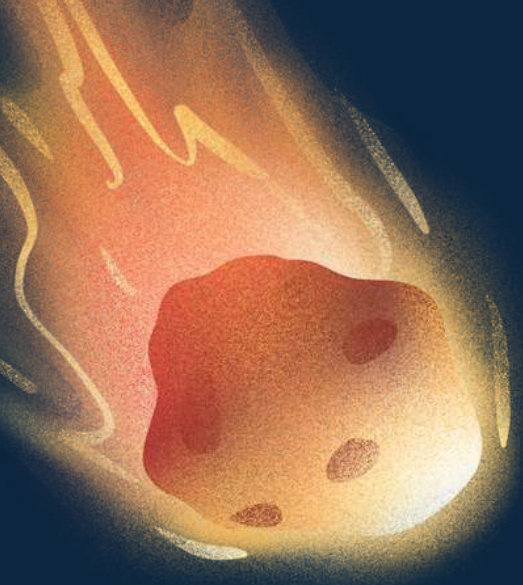


LANGKAH 26

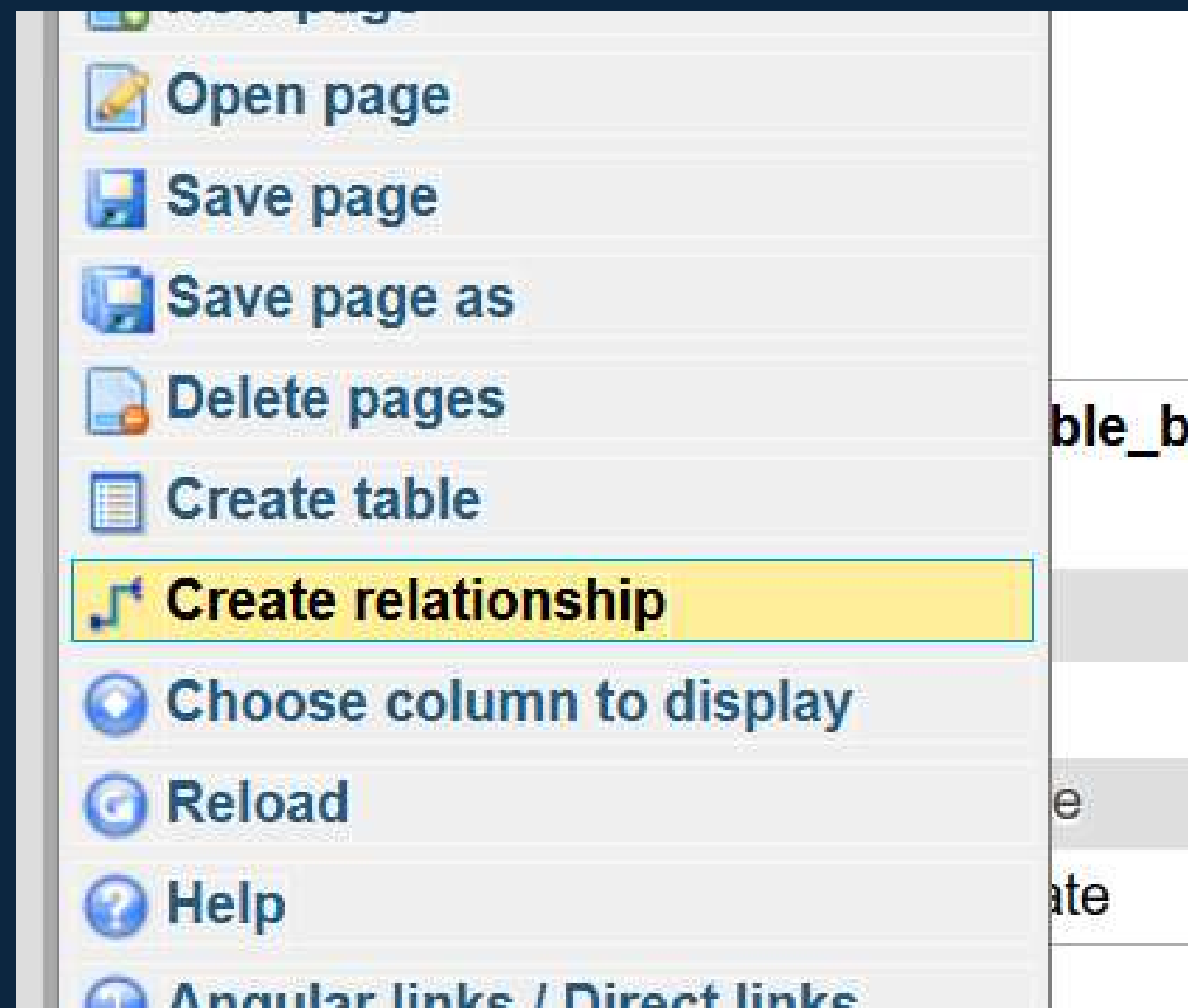


KEMUDIAN KITA
MASUK KE BAGIAN
MORE KEMUDIAN
PILIH BAGIAN
DESIGNER





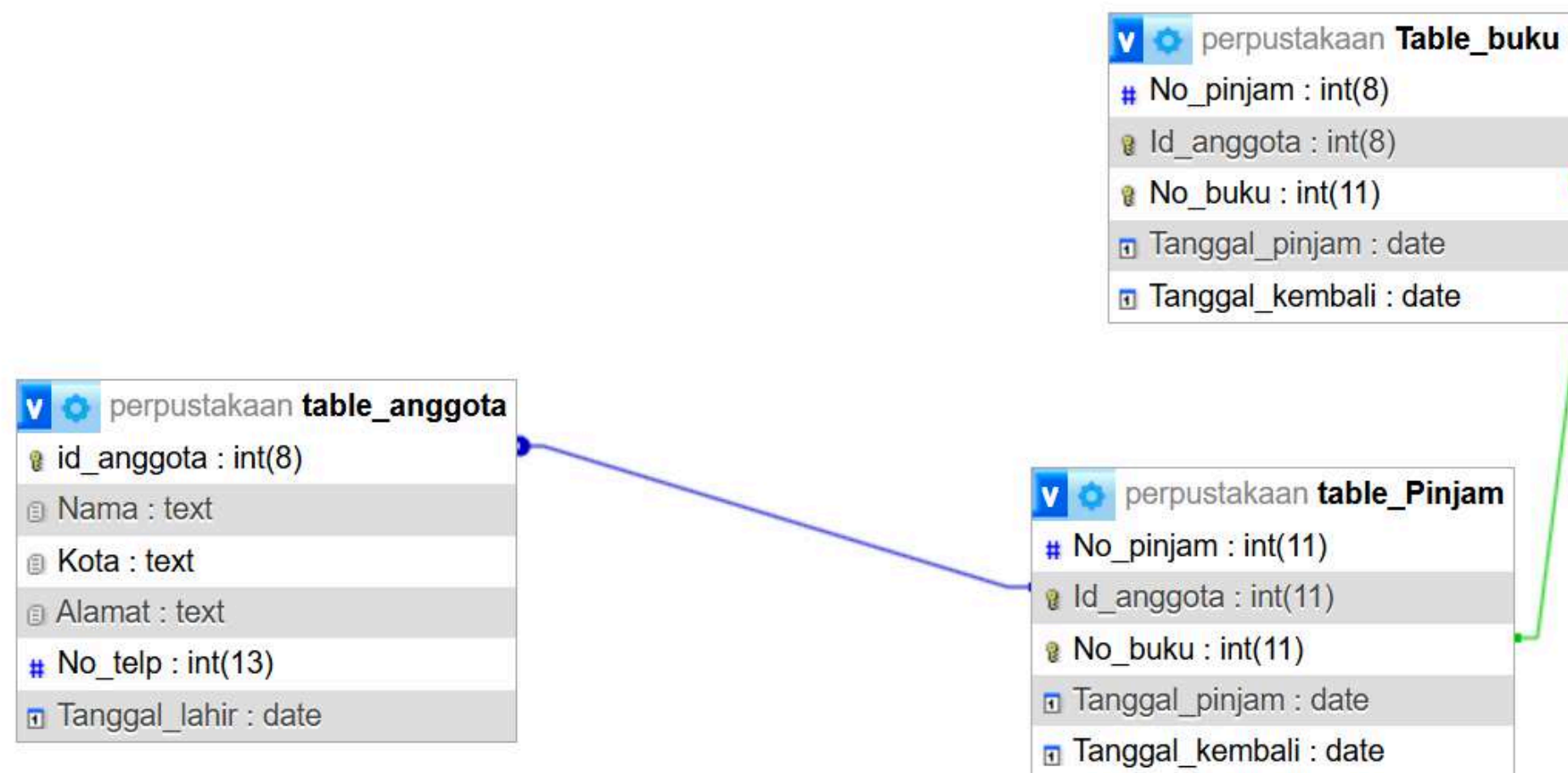
LANGKAH 27



PILIH BAGIAN
CREATE
RELATIONSHIP



LANGKAH 28



LALU KEMUDIAN
KALIAN
HUBUNGKAN
MASING MASING
TABEL NYA

THANK YOU

