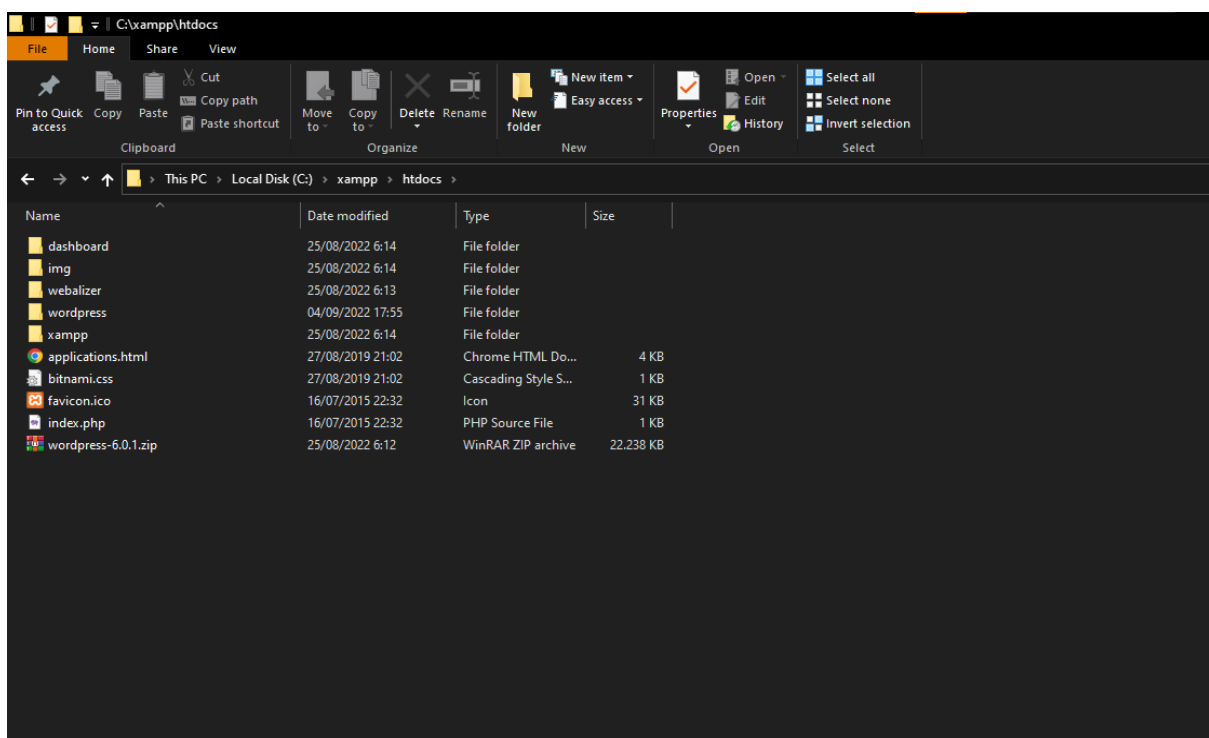
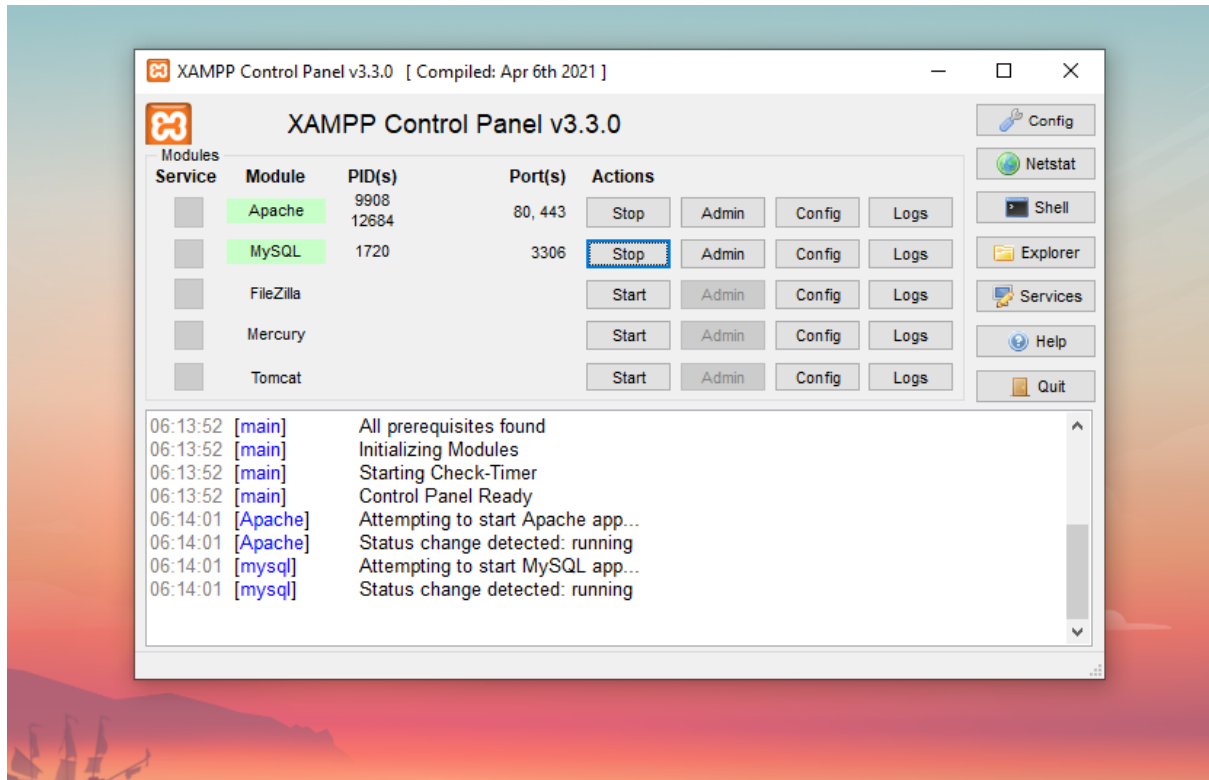


Nama : Fatih Rizky Darmawan

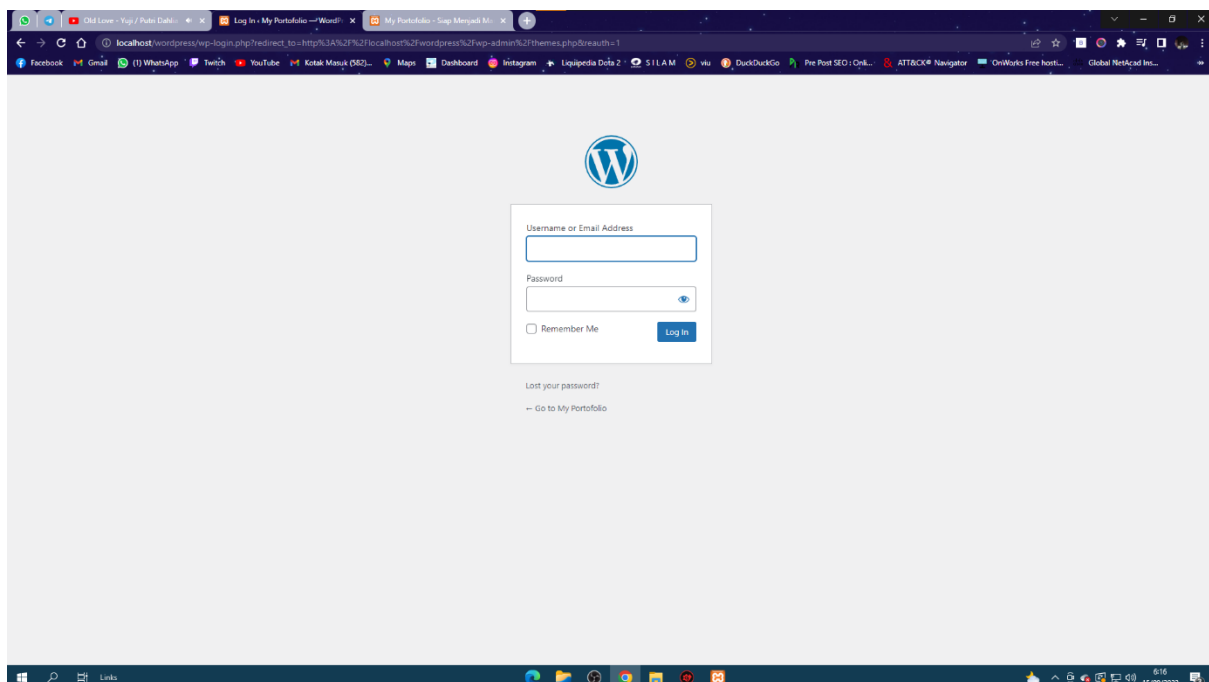
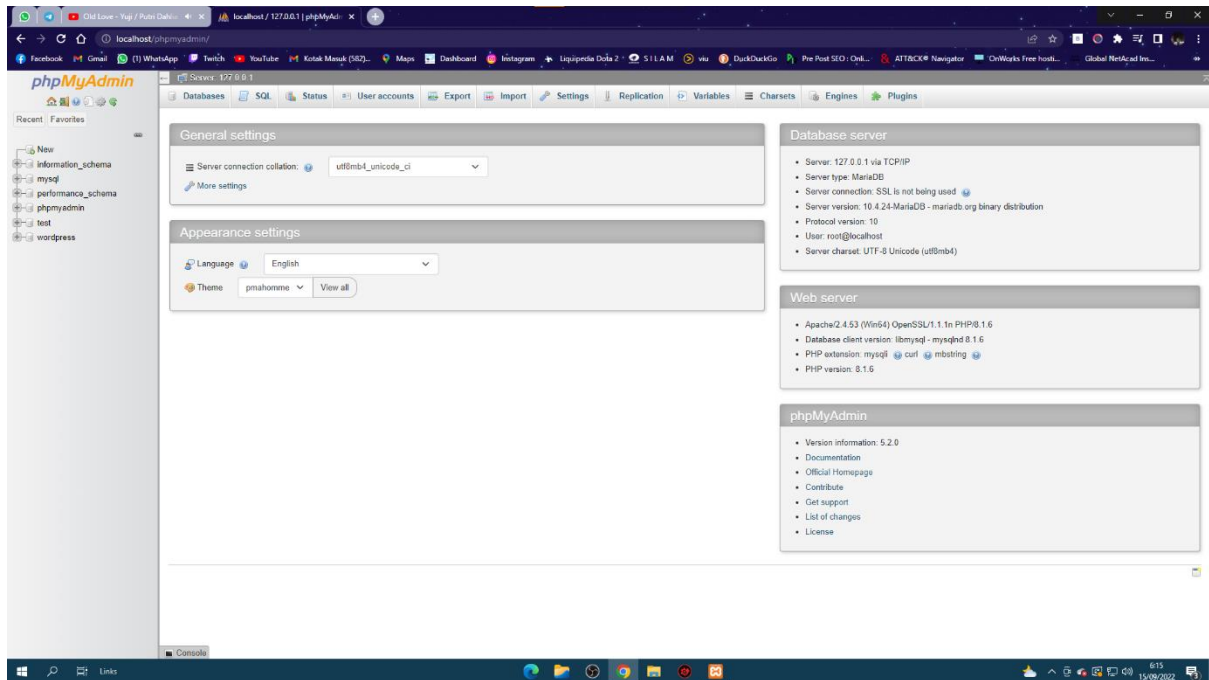
Kelas : RKS Pagi 3A

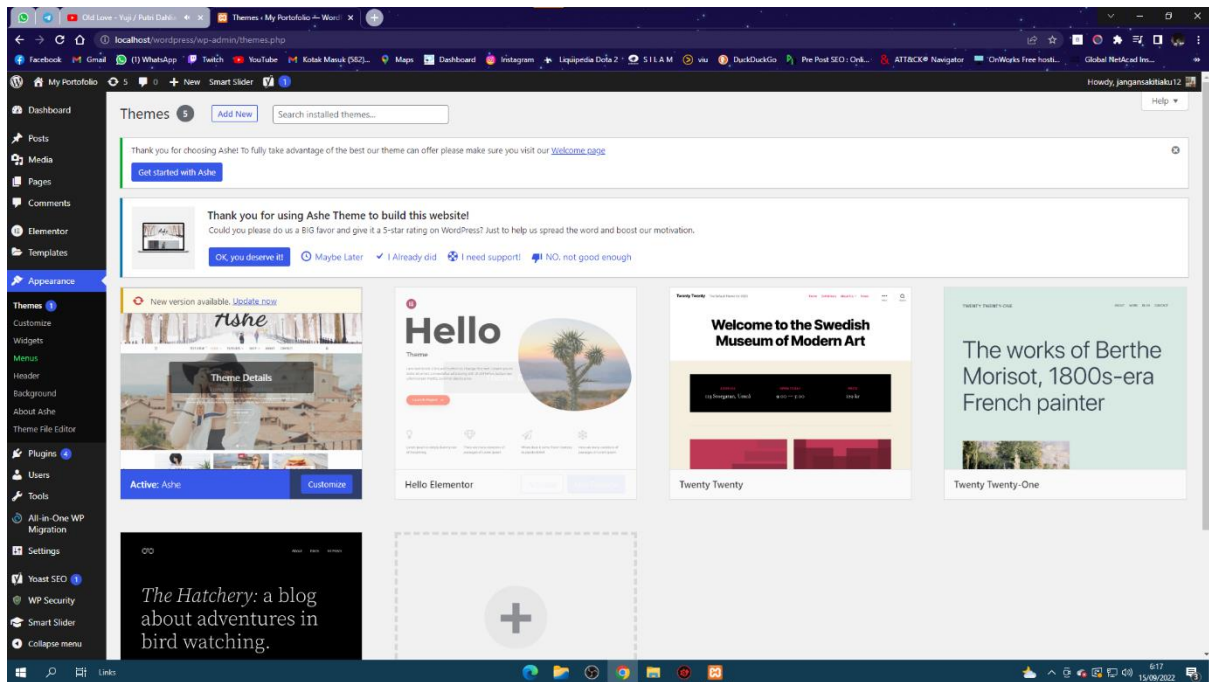
Matkul : keamanan Basis Data

1. Masuk ke xampp dan buka file xampp masuk ke htdocs untuk copy file wordpress



- Setelah memasukkan file ke htdoc kemudia ketik di laman pencarian dengan keyword : localhost/phpmyadmin. Setelah itu buat database denagn nama file yang anda copy di htdoc, kemudian untuk menginstall wordpress silakan ketikkan : localhost/wordpress (nama\_file yang anda copy di htdoc)





### 3. Install 2 ubuntu di 2 virtual machine berbeda untuk membuat server dan web server

- Setelah install silakan lakukan : `sudo apt update`
- Dan check IP nya menggunakan : `ip a`
- Setelah itu install mysql dengan cara : `sudo apt install mysql-server`
- Setelah selesai install restart dengan cara : `sudo systemctl start mysql.service`
- Setelah itu masuk ke konfigurasi database dengan cara : `$ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf`

```

faith@ubuntu: ~
GNU nano 4.8 /etc/mysql/mysql.conf.d/mysqld.cnf
# * Basic Settings
#
user                 = mysql
# pid-file           = /var/run/mysqld/mysqld.pid
# socket             = /var/run/mysqld/mysqld.sock
# port               = 3306
# datadir            = /var/lib/mysql

# If MySQL is running as a replication slave, this should be
# changed. Ref https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.
# tmpdir             = /tmp

# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address         = 192.168.79.132
mysqlx-bind-address  = 127.0.0.1
#
# * Fine Tuning
#

^G Get Help  ^O Write Out ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos
^X Exit      ^R Read File ^\ Replace   ^U Paste Text ^T To Spell  ^_ Go To Line

```

- Setelah itu ganti bind address nya dengan ip server

- Restart kembali dengan : `$ sudo systemctl restart mysql`
- Setelah itu masuk ke mysql dengan cara : `sudo mysql`

Terus create database dengan cara :

`CREATE USER 'username'@'ip web server' IDENTIFIED BY 'password';`

`GRANT ALL PRIVILEGES ON *.* TO 'username'@'ip web server';`

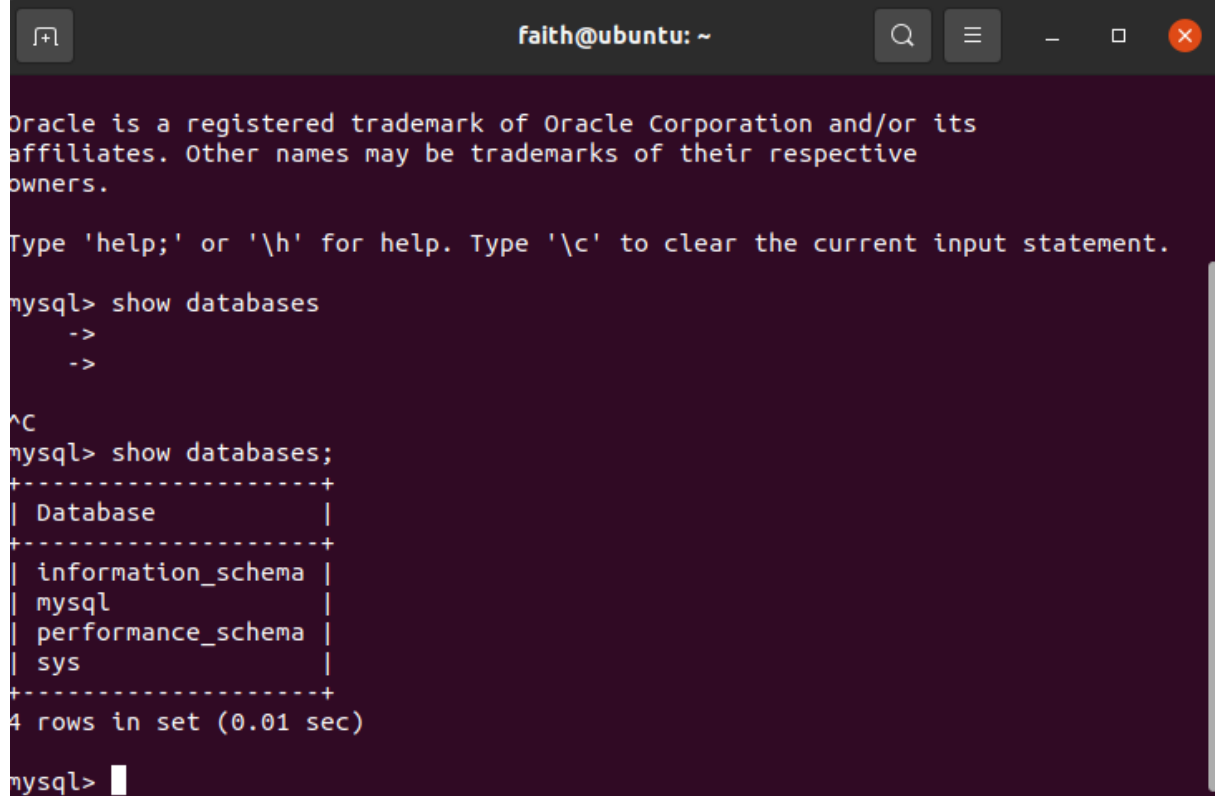
`FLUSH PRIVILEGES;`

```
mysql> CREATE USER 'userweb'@'192.168.111.2' IDENTIFIED BY 'userweb';
Query OK, 0 rows affected (0.03 sec)

mysql> GRANT ALL PRIVILEGES ON *.* TO 'userweb'@'192.168.111.2';
Query OK, 0 rows affected (0.01 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql> 
```



The screenshot shows a terminal window with the title 'faith@ubuntu: ~'. The MySQL command prompt is active, and the user has entered the command 'show databases'. The output shows four databases: 'information\_schema', 'mysql', 'performance\_schema', and 'sys'. The prompt is now ready for the next command.

```
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases
->
->

^C
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)

mysql> 
```

- Setelah itu install apache2 dengan dengan cara : `sudo apt install apache2`

#### 4. Konfigurasi webserver

- Pertama install mysql : `sudo apt install mysql-client`
- Setelah install masuk ke akun database yang sudah di buat dengan cara : `mysql -u badrul -h 192.168.79.133 -p`
- Masukkan password yang di buat tadi

- Setelah masuk ke mysql cek informasi database dengan : \s

```

^C
mysql>
mysql> mysql> \s
-----
mysql Ver 8.0.30-0ubuntu0.20.04.2 for Linux on x86_64 ((Ubuntu))

Connection id:          16
Current database:
Current user:           badrul@192.168.79.133
SSL:                    Cipher in use is TLS_AES_256_GCM_SHA384
Current pager:          stdout
Using outfile:           ''
Using delimiter:         ;
Server version:         8.0.30-0ubuntu0.20.04.2 (Ubuntu)
Protocol version:       10
Connection:             192.168.79.132 via TCP/IP
Server characterset:    utf8mb4
Db      characterset:    utf8mb4
Client characterset:    utf8mb4
Conn.  characterset:    utf8mb4
TCP port:               3306
Binary data as:         Hexadecimal
Uptime:                 19 min 53 sec

Threads: 2  Questions: 12  Slow queries: 0  Opens: 149  Flush tables: 3  Open t
ables: 68  Queries per second avg: 0.010

Show Applications
->

```

```

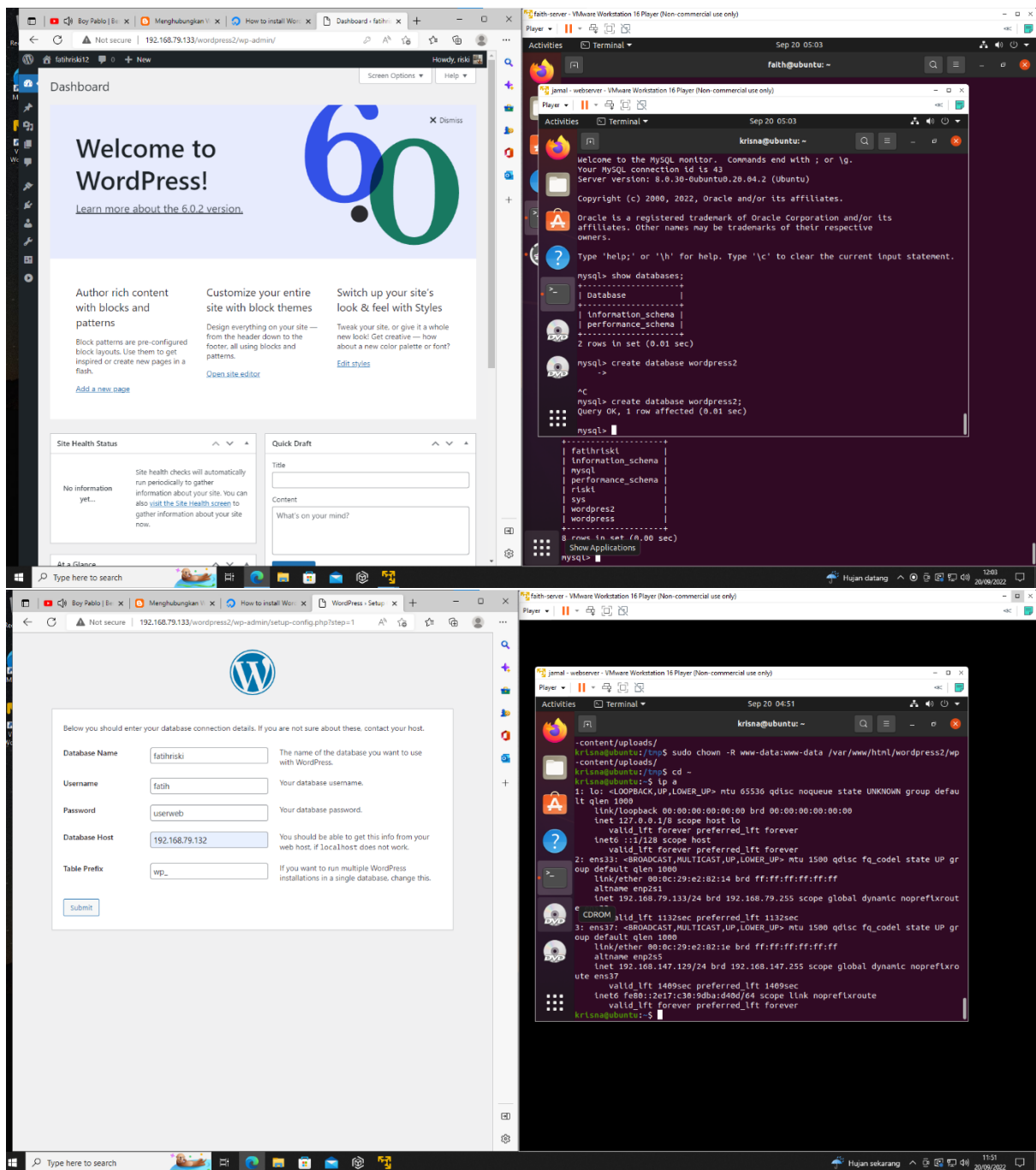
krisna@ubuntu:~$ ifconfig
ens33: flags=4163<UP,BROADCAST,MULTICAST,SLAVE,LOOPBACK> mtu 1500
    link/ether 08:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
    inet 192.168.79.132/24 brd 192.168.79.255 scope global dynamic noprefixroute
        valid_lft 1764sec preferred_lft 1764sec
    inet6 fe80::20c:29ff:fe2:8214/64 scope link
        valid_lft forever preferred_lft forever
ens37: flags=4163<UP,BROADCAST,MULTICAST,SLAVE,LOOPBACK> mtu 1500
    link/ether 08:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
    inet 192.168.147.129/24 brd 192.168.147.255 scope global dynamic noprefixroute
        valid_lft 1764sec preferred_lft 1764sec
    inet6 fe80::20c:29ff:fe2:8214/64 scope link
        valid_lft forever preferred_lft forever

```

```

faith@ubuntu:~$ ifconfig
ens33: flags=4163<UP,BROADCAST,MULTICAST,SLAVE,LOOPBACK> mtu 1500
    link/ether 08:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
    inet 192.168.79.132/24 brd 192.168.79.255 scope global dynamic noprefixroute
        valid_lft 1777sec preferred_lft 1777sec
    inet6 fe80::20c:29ff:fe2:8214/64 scope link
        valid_lft forever preferred_lft forever
ens37: flags=4163<UP,BROADCAST,MULTICAST,SLAVE,LOOPBACK> mtu 1500
    link/ether 08:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
    inet 192.168.147.130/24 brd 192.168.147.255 scope global dynamic noprefixroute
        valid_lft 1777sec preferred_lft 1777sec
    inet6 fe80::20c:29ff:fe2:8214/64 scope link
        valid_lft forever preferred_lft forever

```





Boj Pabli | x | Menghubungkan | x | How to install Wor | x | WordPress - Install | x |

Not secure | 192.168.79.133/wordpress/wp-admin/install.php?language=...

# Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

## Information needed

Please provide the following information. Do not worry, you can always change these settings later.

Site Title

Username

Passwords can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password

Strong

Important: You will need this password to log in. Please store it in a secure location.

Your Email

Double-check your email address before continuing.

Search engine visibility ☐ Discourage search engines from indexing this site  
It is up to search engines to honor this request.

Type here to search

faith-server - VMware Workstation 16 Player (Non-commercial use only)

Sep 20 05:02

faith@ubuntu: ~

Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 43  
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)  
Copyright (c) 2000, 2022, Oracle and/or its affiliates.  
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
+-----+
| database                |
+-----+
| information_schema      |
| performance_schema     |
+-----+
2 rows in set (0.01 sec)

mysql> create database wordpress2
->

mysql> create database wordpress2;
Query OK, 1 row affected (0.01 sec)

mysql>
+-----+
| faithrksl               |
| information_schema      |
| mysql                   |
| performance_schema     |
| rksl                    |
| sys                     |
| wordpress2              |
+-----+
8 rows in set (0.00 sec)

Show Applications
mysql>
```

faith@ubuntu: ~

```
link/ether 00:0c:29:81:31:6d brd ff:ff:ff:ff:ff:ff
altname enp2s1
inet 192.168.79.132/24 brd 192.168.79.255 scope global dynamic noprefixroute ens33
    valid_lft 1403sec preferred_lft 1403sec
inet6 fe80::20c:29ff:fe81:316d/64 scope link
    valid_lft forever preferred_lft forever
3: ens37: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:81:31:77 brd ff:ff:ff:ff:ff:ff
    altname enp2s5
    inet 192.168.147.130/24 brd 192.168.147.255 scope global dynamic noprefixroute ens37
        valid_lft 919sec preferred_lft 919sec
    inet6 fe80::5b17:7a9d:62b9:44e2/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

# Terminal ntu:~$ cd /var/www/html/
faith@ubuntu:~/var/www/html$ ls
index.html  wordpress
faith@ubuntu:~/var/www/html$ sudo -
sudo: /home/faith: command not found
faith@ubuntu:~/var/www/html$ cd -
faith@ubuntu:~$ sudo systemctl status apache2
Command 'sudl' not found, did you mean:
command 'sudo' from deb sudo (1.8.31-1ubuntu1.2)
command 'sudo' from deb sudo-ldap (1.8.31-1ubuntu1.2)
Try: sudo apt install <deb name>
faith@ubuntu:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
    Active: active (running) since Tue 2022-09-20 04:00:21 PDT; 2min 57s ago
    Docs: https://httpd.apache.org/docs/2.4/
    Process: 12192 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
    Main PID: 12196 (apache2)
    Tasks: 6 (limit: 4582)
    Memory: 9.7M
    CGroup: /system.slice/apache2.service
            └─12196 /usr/sbin/apache2 -k start
              └─12197 /usr/sbin/apache2 -k start
                └─12198 /usr/sbin/apache2 -k start
                  └─12199 /usr/sbin/apache2 -k start
                    └─12200 /usr/sbin/apache2 -k start
                      └─12201 /usr/sbin/apache2 -k start

Sep 20 04:00:21 ubuntu systemd[1]: Starting The Apache HTTP Server...
Sep 20 04:00:21 ubuntu apachectl[12195]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, please add the 'ServerName' directive to the configuration to remove this message
Sep 20 04:00:21 ubuntu systemd[1]: Started The Apache HTTP Server.
(Lines 1-19/19 (END))
```

Type here to search

Boj Pabli | x | Menghubungkan | x | How to install Wor | x | WordPress - Setup | x |

Not secure | 192.168.79.132/wordpress/wp-admin/setup-config.php

# Welcome

English (United States)

Afrikaans  
አማርኛ  
Arabic  
العربية  
অসমীয়া  
کۆچی آذربایجان  
Азәрбајҹан дили  
Беларуская мова  
Български  
বাংলা  
босански  
Bosanski  
Català  
Cebuano  
Čeština  
Cymraeg  
Dansk  
Deutsch (Sie)  
Deutsch (Österreich)  
Deutsch (Schweiz)

Type here to search

faith-server - VMware Workstation 16 Player (Non-commercial use only)

Sep 20 04:03

faith@ubuntu: ~

```
link/ether 00:0c:29:81:31:6d brd ff:ff:ff:ff:ff:ff
altname enp2s1
inet 192.168.79.132/24 brd 192.168.79.255 scope global dynamic noprefixroute ens33
    valid_lft 1403sec preferred_lft 1403sec
inet6 fe80::20c:29ff:fe81:316d/64 scope link
    valid_lft forever preferred_lft forever
3: ens37: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:81:31:77 brd ff:ff:ff:ff:ff:ff
    altname enp2s5
    inet 192.168.147.130/24 brd 192.168.147.255 scope global dynamic noprefixroute ens37
        valid_lft 919sec preferred_lft 919sec
    inet6 fe80::5b17:7a9d:62b9:44e2/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

# Terminal ntu:~$ cd /var/www/html/
faith@ubuntu:~/var/www/html$ ls
index.html  wordpress
faith@ubuntu:~/var/www/html$ sudo -
sudo: /home/faith: command not found
faith@ubuntu:~/var/www/html$ cd -
faith@ubuntu:~$ sudo systemctl status apache2
Command 'sudl' not found, did you mean:
command 'sudo' from deb sudo (1.8.31-1ubuntu1.2)
command 'sudo' from deb sudo-ldap (1.8.31-1ubuntu1.2)
Try: sudo apt install <deb name>
faith@ubuntu:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
    Active: active (running) since Tue 2022-09-20 04:00:21 PDT; 2min 57s ago
    Docs: https://httpd.apache.org/docs/2.4/
    Process: 12192 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
    Main PID: 12196 (apache2)
    Tasks: 6 (limit: 4582)
    Memory: 9.7M
    CGroup: /system.slice/apache2.service
            └─12196 /usr/sbin/apache2 -k start
              └─12197 /usr/sbin/apache2 -k start
                └─12198 /usr/sbin/apache2 -k start
                  └─12199 /usr/sbin/apache2 -k start
                    └─12200 /usr/sbin/apache2 -k start
                      └─12201 /usr/sbin/apache2 -k start

Sep 20 04:00:21 ubuntu systemd[1]: Starting The Apache HTTP Server...
Sep 20 04:00:21 ubuntu apachectl[12195]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, please add the 'ServerName' directive to the configuration to remove this message
Sep 20 04:00:21 ubuntu systemd[1]: Started The Apache HTTP Server.
(Lines 1-19/19 (END))
```

Type here to search

Boy Publ... x

Menghubung... x

How to install... x

Dashboard < f x

cara install m... x

+

Not secure | 192.168.79.133/wordpress/wp-admin/

fatihriski 0 + New

Howdy, faith

Screen Options

Help

Dashboard

Welcome to WordPress!

Learn more about the 6.0.2 version.

Dismiss

Author rich content with blocks and patterns

Block patterns are pre-configured block layouts. Use them to get inspired or create new pages in a flash.

[Add a new page](#)

Customize your entire site with block themes

Design everything on your site — from the header down to the footer, all using blocks and patterns.

[Open site editor](#)

Switch up your site's look & feel with Styles

Tweak your site, or give it a whole new look! Get creative — how about a new color palette or font?

[Edit styles](#)

Site Health Status

No information yet...

Site health checks will automatically run periodically to gather information about your site. You can also [visit the Site Health screen](#) to gather information about your site now.

Quick Draft

Title

Content

What's on your mind?

Save Draft

At a Glance

1 Post

1 Page



```
Activities Terminal Sep 20 04:21 faith@ubuntu: ~

| sys |
+-----+
4 rows in set (0.00 sec)

mysql> create databases wordpress;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to y
our MySQL server version for the right syntax to use near 'databases wordpress' at line 1
mysql> create database wordpress;
Query OK, 1 row affected (0.01 sec)

mysql> create user 'badrul'@'192.168.79.132' identified by 'userweb';
Query OK, 0 rows affected (0.01 sec)

mysql> grant all privileges on wordpress.* to 'badrul'@'192.168.79.132';
Query OK, 0 rows affected (0.00 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)

mysql> exit
Bye
faith@ubuntu:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 26
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)

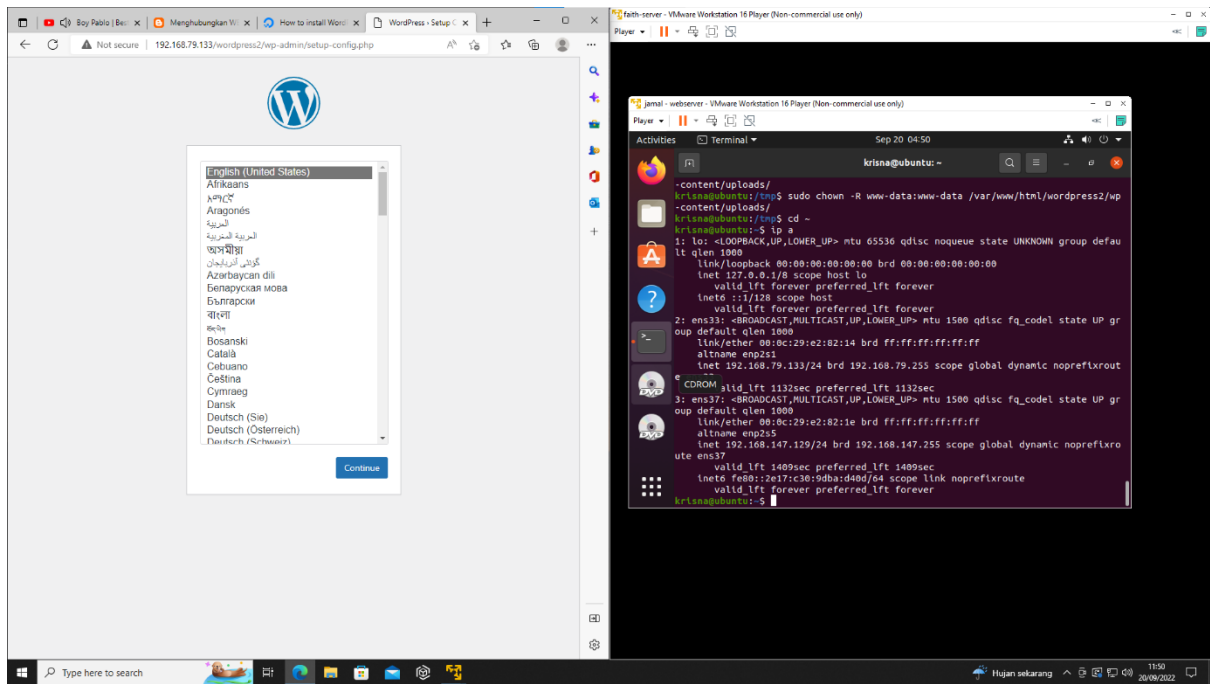
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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to y
our MySQL server version for the right syntax to use near 'database' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| wordpress |
+-----+
5 rows in set (0.00 sec)

mysql>
```



```
Activities Terminal Sep 20 04:41 faith@ubuntu: ~
mysql> grant all privileges on riski.* to '192.168.79.132';
ERROR 1410 (42000): You are not allowed to create a user with GRANT
mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)

mysql> exit
Bye
faith@ubuntu:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 32
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases;
+-----+
| Database |
+-----+
| fatihriski |
| information_schema |
| mysql |
| performance_schema |
| riski |
| sys |
| wordpress |
+-----+
7 rows in set (0.00 sec)

mysql> grant all privileges on fatihriski.* to 'fatih'@'192.168.79.132';
Query OK, 0 rows affected (0.00 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)

mysql> grant all privileges on riski.* to 'riski'@'192.168.79.132';
Query OK, 0 rows affected (0.01 sec)

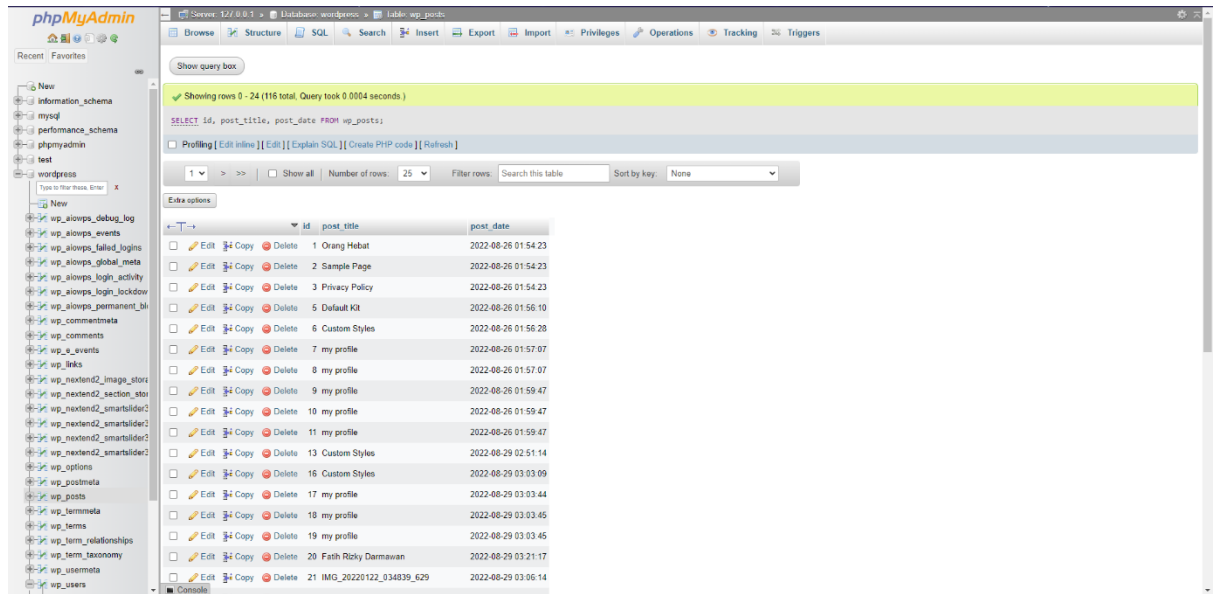
mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)

mysql> exit
Bye
faith@ubuntu:~$
```

## 5. Penggunaan union dan select di mysql

- Select perintah SELECT ialah perintah dasar SQL yang ialah bagian dari tipe sintaks DML. Perintah SELECT ialah perintah dasar SQL yang digunakan buat menunjukkan serta memilah

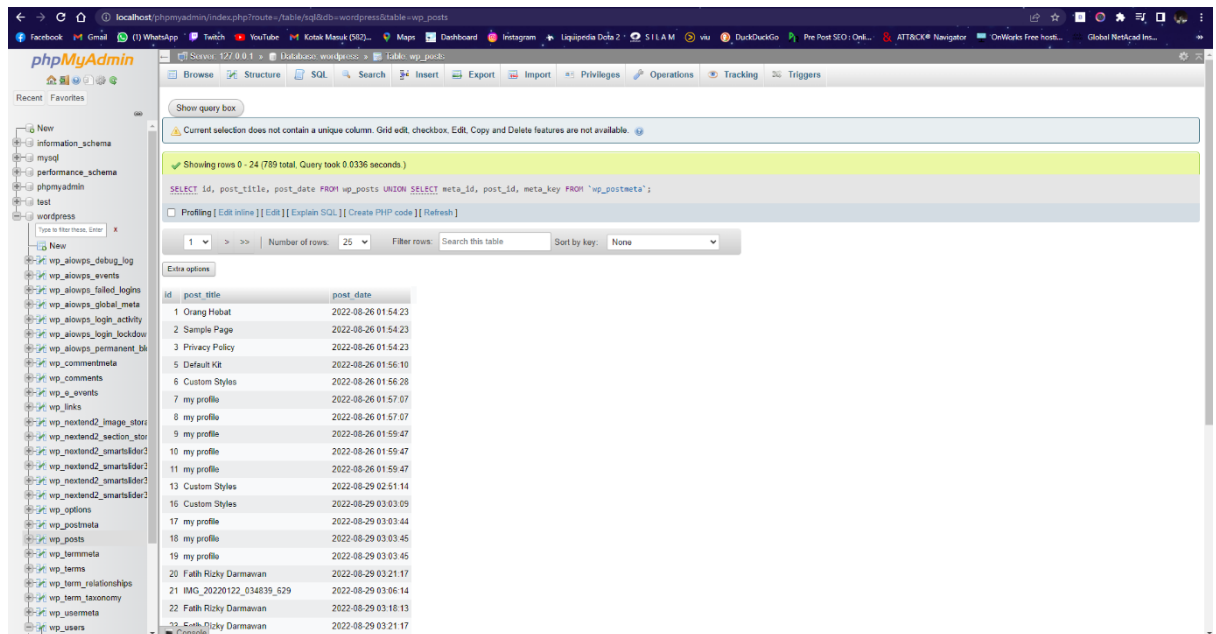
informasi dari database.



The screenshot shows the phpMyAdmin interface with the 'wp\_posts' table selected. The query executed is `SELECT id, post_title, post_date FROM wp_posts;`. The result shows 24 rows of data. The table has columns: id, post\_title, and post\_date.

id	post_title	post_date
1	Orang Hubat	2022-08-26 01:54:23
2	Sample Page	2022-08-26 01:54:23
3	Privacy Policy	2022-08-26 01:54:23
5	Default Kit	2022-08-26 01:56:10
6	Custom Styles	2022-08-26 01:56:28
7	my profile	2022-08-26 01:57:07
8	my profile	2022-08-26 01:57:07
9	my profile	2022-08-26 01:59:47
10	my profile	2022-08-26 01:59:47
11	my profile	2022-08-26 01:59:47
13	Custom Styles	2022-08-29 02:51:14
16	Custom Styles	2022-08-29 03:03:09
17	my profile	2022-08-29 03:03:44
18	my profile	2022-08-29 03:03:45
19	my profile	2022-08-29 03:03:45
20	Fatih Ricky Darmawan	2022-08-29 03:21:17
21	IMG_20220122_034839_629	2022-08-29 03:06:14

- Union Fungsi UNION pada SQL digunakan untuk menggabungkan dua tabel dalam bentuk baris baru ke bawah dimana field yang di-SELECT antara tabel satu dan lainnya adalah harus sama.



The screenshot shows the phpMyAdmin interface with a UNION query executed. The query is `SELECT id, post_title, post_date FROM wp_posts UNION SELECT meta_id, post_id, meta_key FROM 'wp_postmeta';`. The result shows 24 rows of data. The table has columns: id, post\_title, post\_date. A warning message is displayed: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available."

id	post_title	post_date
1	Orang Hubat	2022-08-26 01:54:23
2	Sample Page	2022-08-26 01:54:23
3	Privacy Policy	2022-08-26 01:54:23
5	Default Kit	2022-08-26 01:56:10
6	Custom Styles	2022-08-26 01:56:28
7	my profile	2022-08-26 01:57:07
8	my profile	2022-08-26 01:57:07
9	my profile	2022-08-26 01:59:47
10	my profile	2022-08-26 01:59:47
11	my profile	2022-08-26 01:59:47
13	Custom Styles	2022-08-29 02:51:14
16	Custom Styles	2022-08-29 03:03:09
17	my profile	2022-08-29 03:03:44
18	my profile	2022-08-29 03:03:45
19	my profile	2022-08-29 03:03:45
20	Fatih Ricky Darmawan	2022-08-29 03:21:17
21	IMG_20220122_034839_629	2022-08-29 03:06:14
22	Fatih Ricky Darmawan	2022-08-29 03:18:13
23	Fatih Ricky Darmawan	2022-08-29 03:21:17