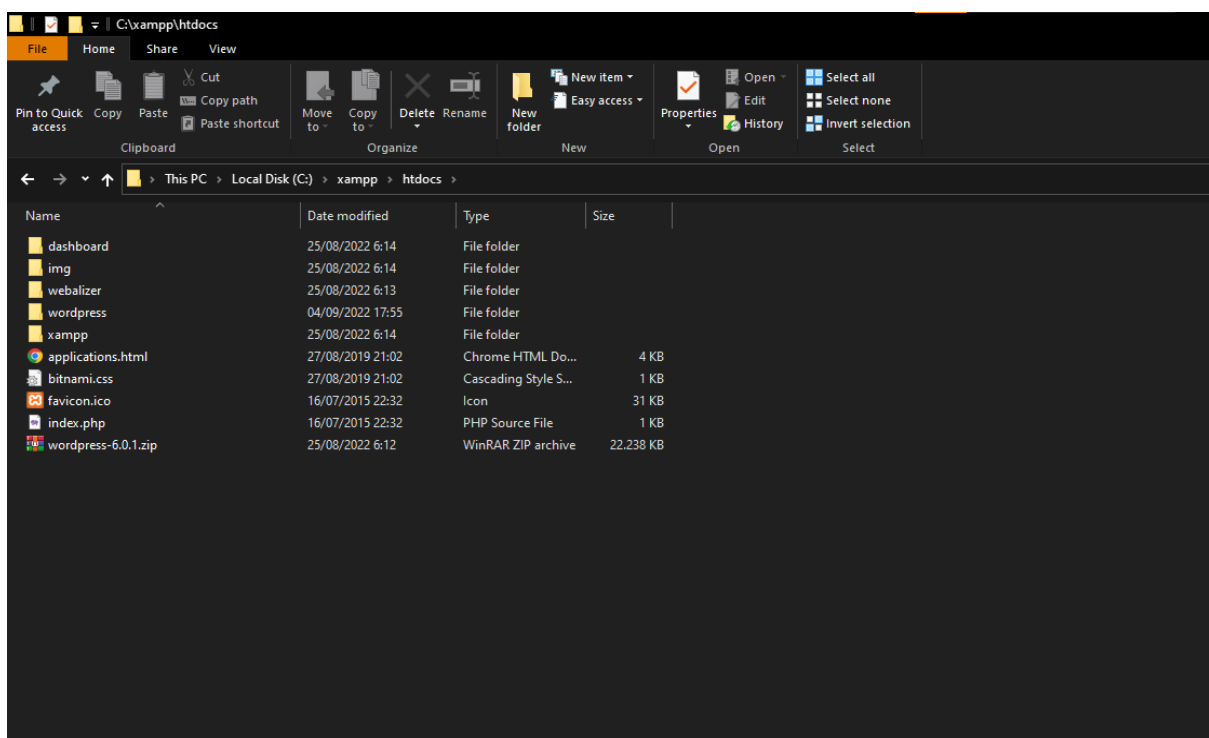
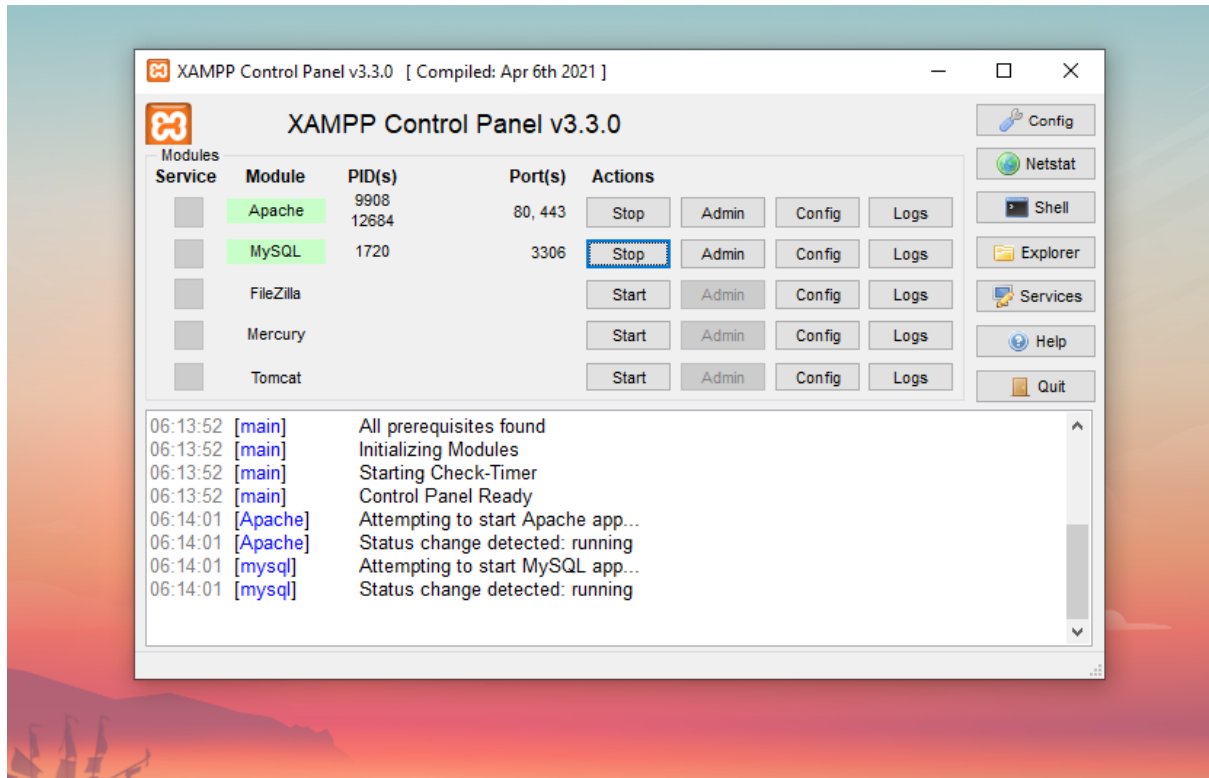


Nama : Fatih Rizky Darmawan

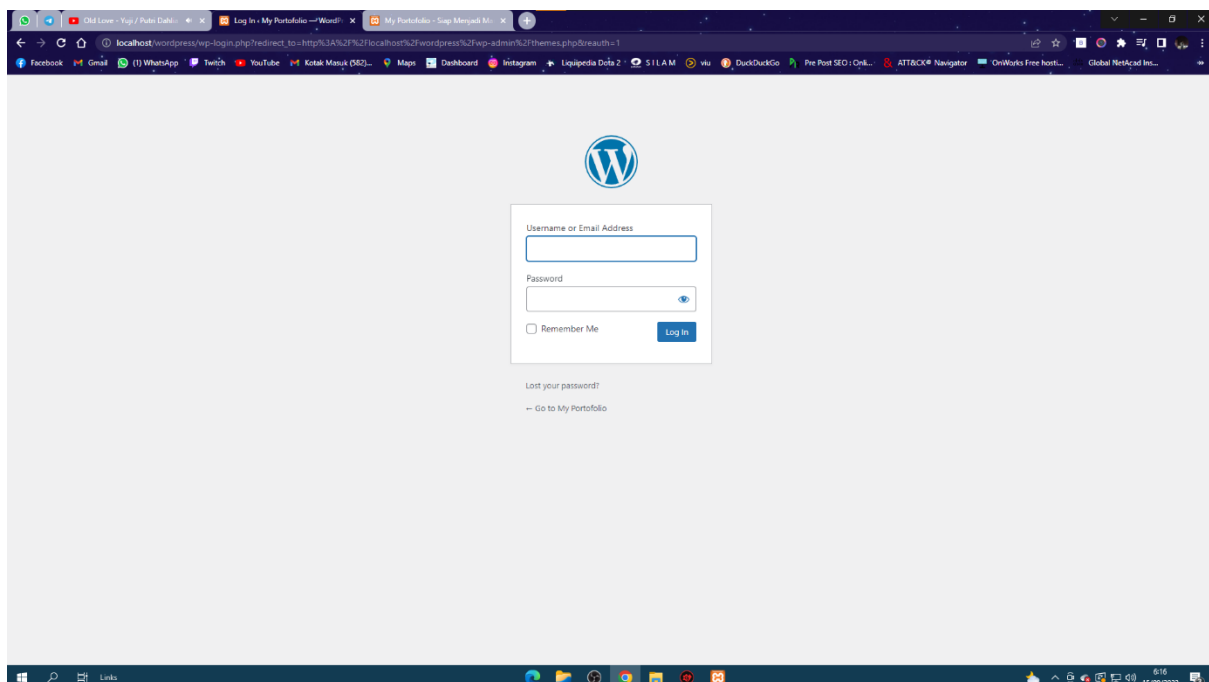
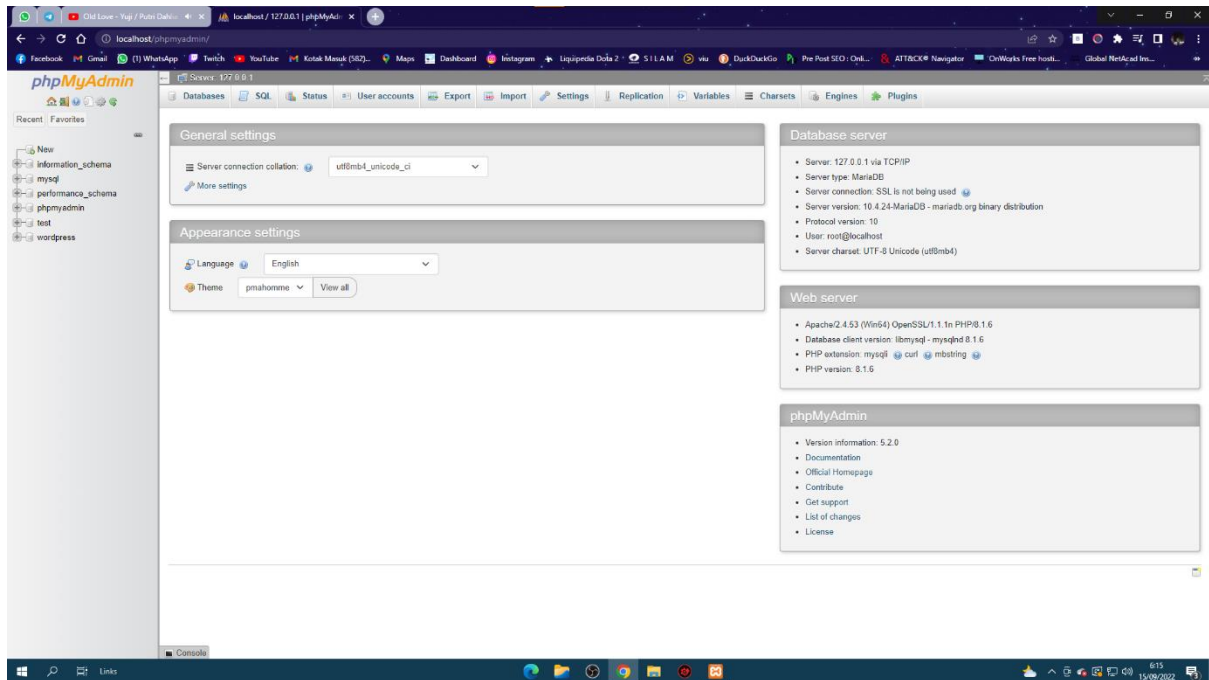
Kelas : RKS Pagi 3A

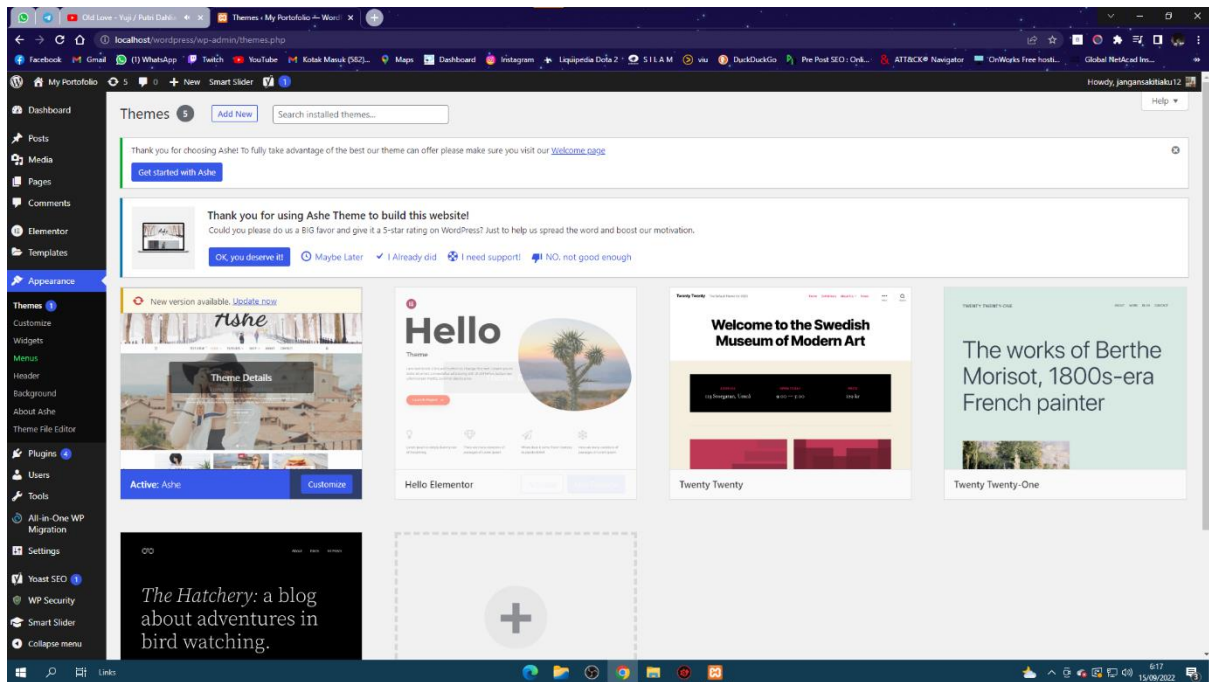
Matkul : keamanan Basis Data

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';`

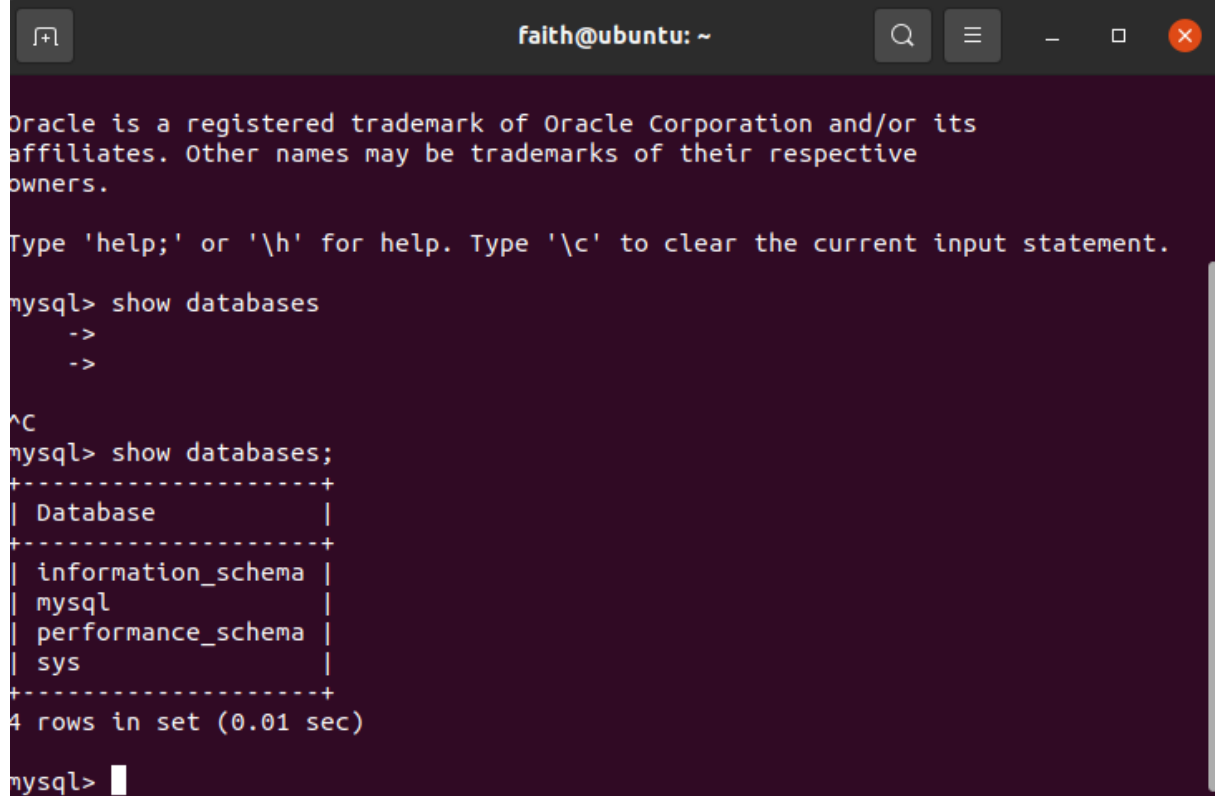
`FLUSH PRIVILEGES;`

```
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)

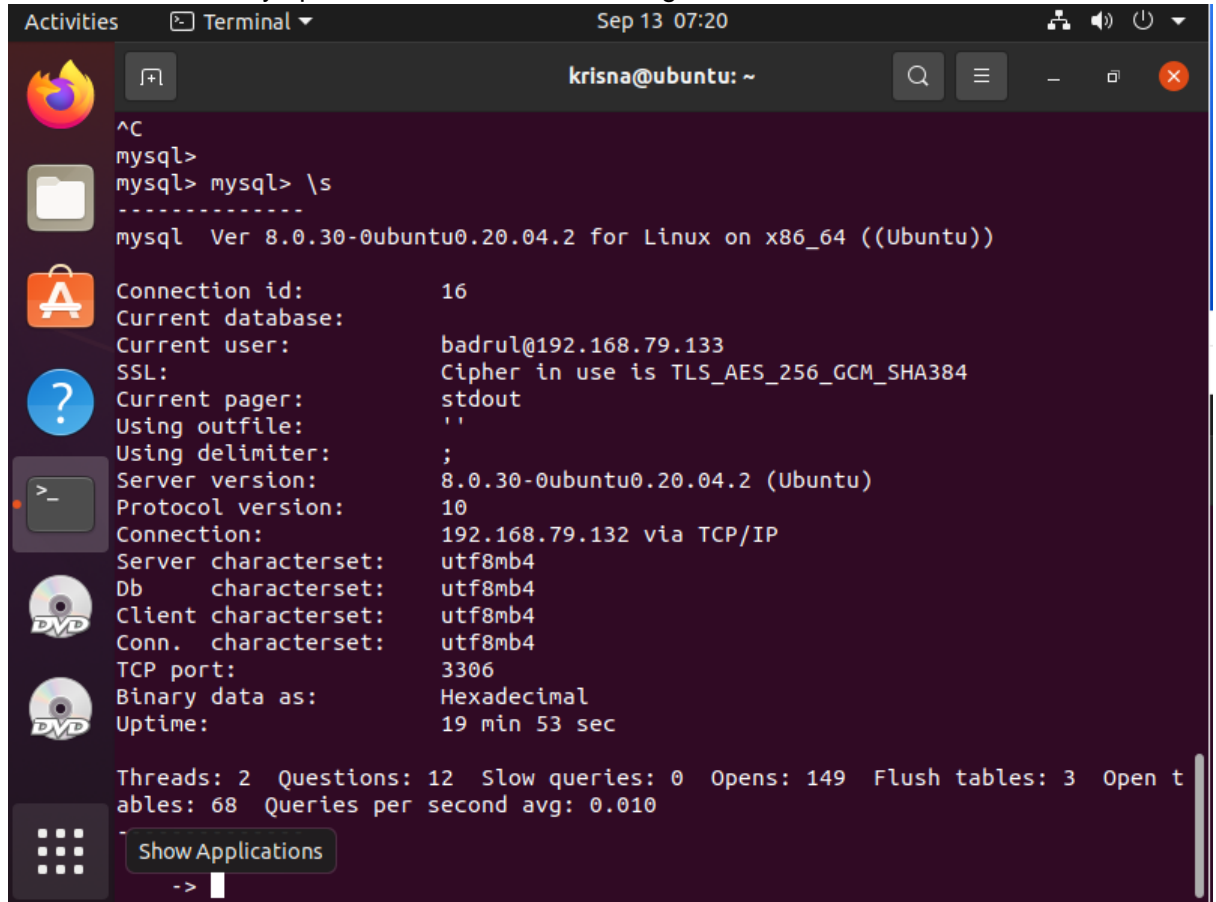
mysql> 
```

- 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



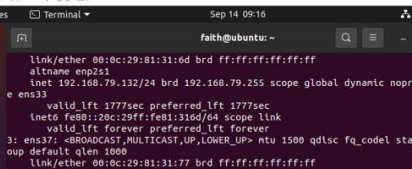
The screenshot shows a terminal window titled "Terminal" with the user "krisna@ubuntu: ~". The terminal displays the output of the command "mysql> mysql> \s", which shows the MySQL connection details for the current session. The output includes the MySQL version (8.0.30-0ubuntu0.20.04.2 for Linux on x86_64), connection ID (16), current database, user (badrul@192.168.79.133), SSL cipher (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 character set (utf8mb4), database character set (utf8mb4), client character set (utf8mb4), connection character set (utf8mb4), TCP port (3306), binary data as (Hexadecimal), and uptime (19 min 53 sec). At the bottom, the terminal shows the status of the MySQL server: "Threads: 2 Questions: 12 Slow queries: 0 Opens: 149 Flush tables: 3 Open tables: 68 Queries per second avg: 0.010". A "Show Applications" button is visible at the bottom left of the terminal window.

```
^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
->
```

[illegible]

The screenshot shows a VMware Workstation 15 Player window titled "faith-server - VMware Workstation 15 Player (Non-commercial use only)". Inside the player, a terminal window is open with the title "Terminal". The terminal prompt is "faith@ubuntu:~". The user has executed the command "netstat -tlnp", which displays the following output:

```

link/ether 00:c2:9a:81:31:6d brd ff:ff:ff:ff:ff:ff
  altname enp1s1
  inet 192.168.79.132/24 brd 192.168.79.255 scope global dynamic noprefixroute
    e ens33
      valid_lft 1775sec preferred_lft 1775sec
  ineto fe80::20c:29ff:fe8b:316d/64 scope link
    valid_lft forever preferred_lft forever
  3c ens33: qbrdgcast, MULTICAST, UP, LOWER_UP, mtu 1500 qdisc fq_codel state UP gr
    ou default qlen 1000
    link/ether 00:c2:9a:81:31:77 brd ff:ff:ff:ff:ff:ff
      altname enp2s1
      inet 192.168.147.130/24 brd 192.168.147.255 scope global dynamic noprefixr
        ute ens37
          valid_lft 1775sec preferred_lft 1775sec
          ineto fe80::5837:7and:db2b:44a2/64 scope link
            valid_lft forever preferred_lft forever
faith@ubuntu:~$ ping 192.168.79.133
PING 192.168.79.133 (192.168.79.133) 56(84) bytes of data:
 64 bytes from 192.168.79.133: icmp_seq=1 ttl=64 time=0.288 ms
 64 bytes from 192.168.79.133: icmp_seq=2 ttl=64 time=0.264 ms
 64 bytes from 192.168.79.133: icmp_seq=3 ttl=64 time=0.111 ms
 64 bytes from 192.168.79.133: icmp_seq=4 ttl=64 time=0.355 ms
 64 bytes from 192.168.79.133: icmp_seq=5 ttl=64 time=0.710 ms
 64 bytes from 192.168.79.133: icmp_seq=6 ttl=64 time=0.934 ms
^C
--- 192.168.79.133 ping statistics ---
 6 packets transmitted, 6 received, 0 packet loss, time 5125ms
 rtt min/avg/max/mdev = 0.111/0.444/0.934/0.285 ms

```

After the netstat output, the user enters the command "curl -s https://www.ck101.com/". The terminal shows the progress of the download, with a progress bar and a percentage of 100%. The final output of the curl command is a 404 error message:

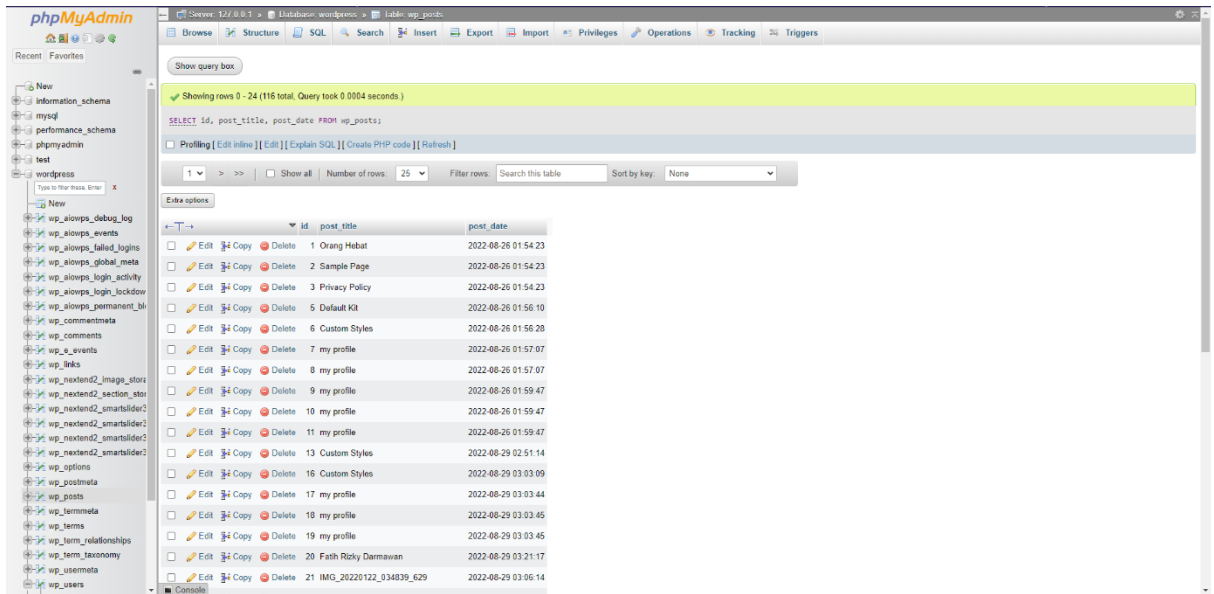
```

404 Not Found

```

5. Penggunaan union dan select di mysql

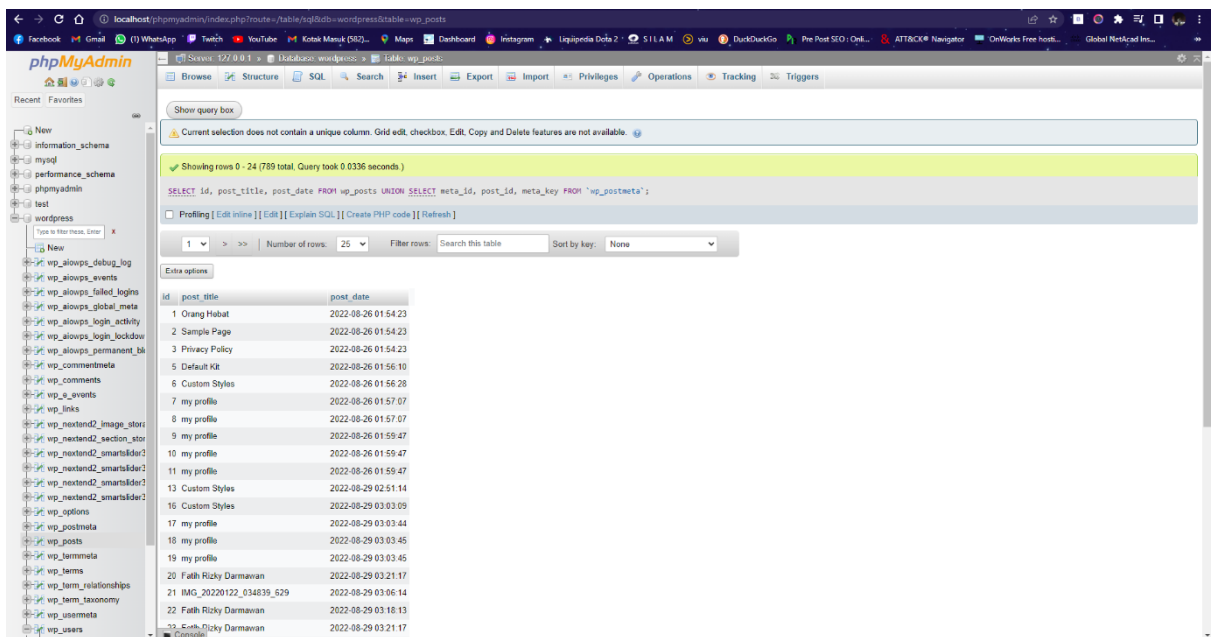
- Select



The screenshot shows the phpMyAdmin interface with the 'wp_posts' table selected. The SQL query is: `SELECT id, post_title, post_date FROM wp_posts;`. The results show 24 rows of data, including post titles like 'Orang Hubat', 'Sample Page', 'Privacy Policy', and 'my profile'.

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



The screenshot shows the phpMyAdmin interface with a UNION query. The SQL query is: `SELECT id, post_title, post_date FROM wp_posts UNION SELECT meta_id, post_id, meta_key FROM wp_postmeta;`. The results show 22 rows of data, including post titles like 'Orang Hubat', 'Sample Page', 'Privacy Policy', and 'my profile'.

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