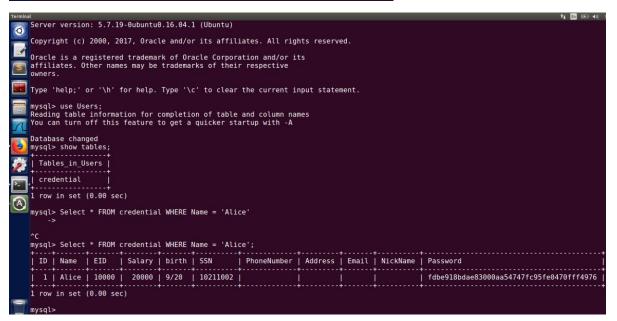
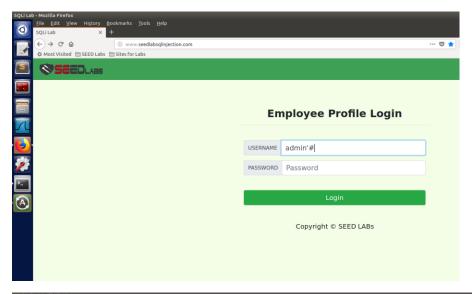
SQL Injection

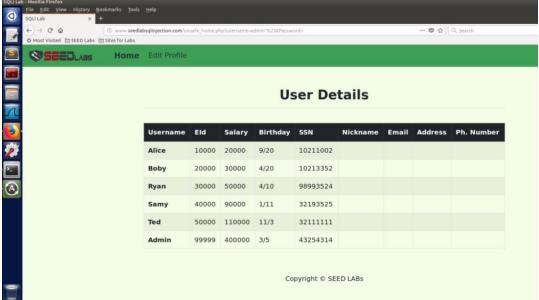
Task 1



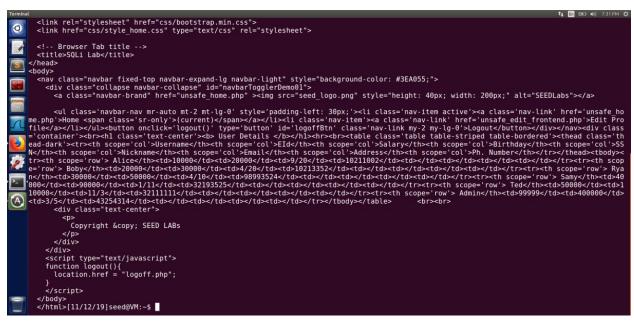
As seen from the above screenshot we were successfully able to retrieve information of Alice from the database 'Users' and table 'credential' using the command Select * FROM credential WHERE name='Alice;

Task 2

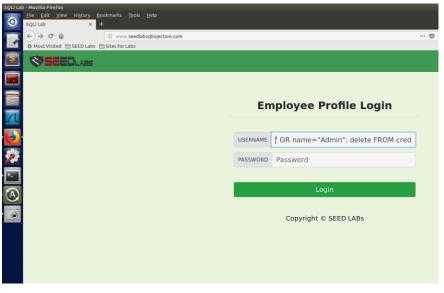


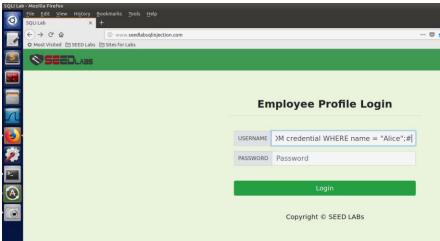


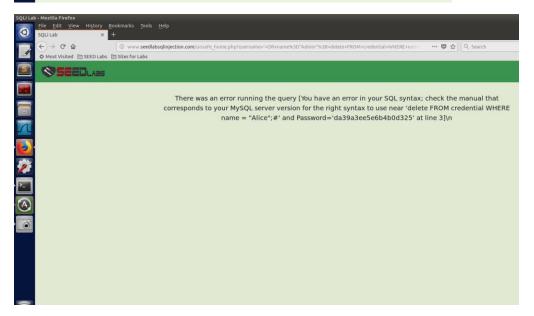
As seen from the above screenshot we first injected SQL query in the username in login page 'admin'#' and we can see that we were able to check every user detail stored in the database. # is used in order to comment everything after that.



This task is similar to the previous task and send the malicious query in the GET parameter. As we are using curl we are using URL encoding instead of the apostrophe and spaces. We have to give this input while using curl because in the browser it encodes special characters by itself and then the request is sent.



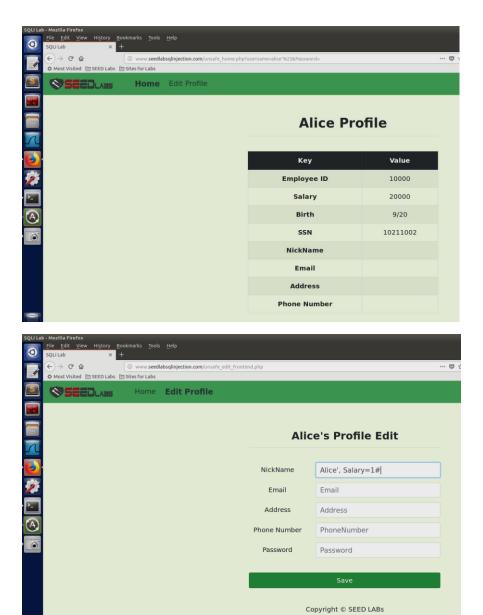


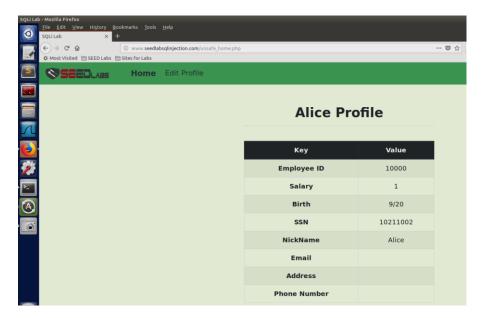


In this task we used multiple statements separated by semicolon. Since, backend being coded in PHP, it does not allow multiple sql statements to run in a single input.

Task 3

3.1

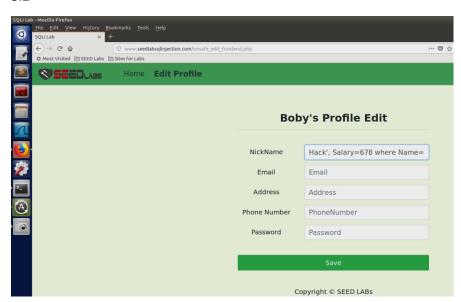


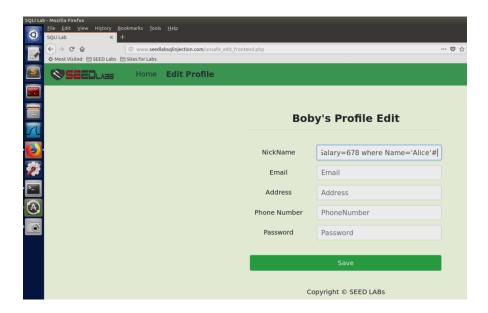


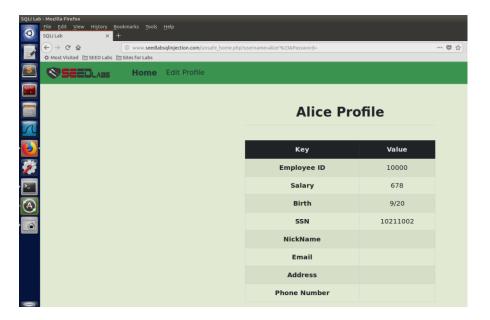
We can see that we were successful in changing the salary of Alice to 1.

Since the edit profile works in the update statement in the backend. Therefore, in the field of nickname we put the query where we update the salary.

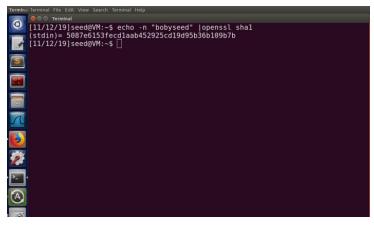
3.2

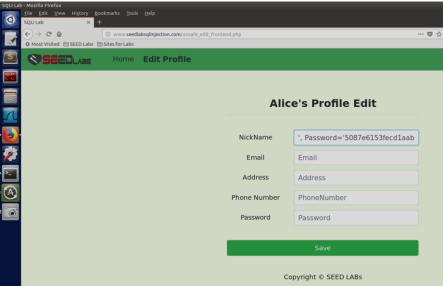


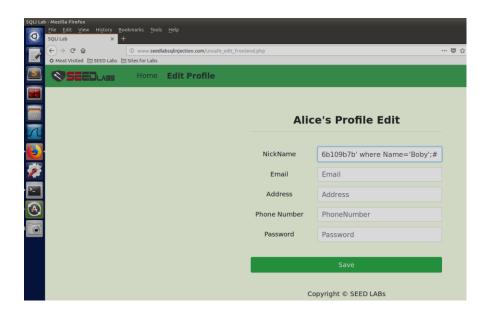


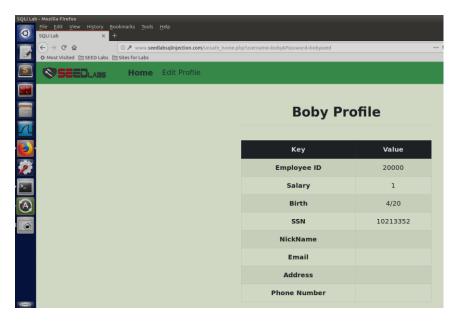


We can see that from boby's profile we were successful in changing the salary of Alice to 678. This is because the update statement works on the entire database. Therefore, we can change anybody's values in the database.









The password in the table is stored in hash value. Therefore, we hash the value of the password we need to store and set the password in the update statement to this value.

Task 4

```
unsafe_home.php (/vor/www/sqtinjection)-gedit

Open * Pl

Subpass="seedubuntu";

Subpass="seedubuntu";

Subpass="seedubuntu";

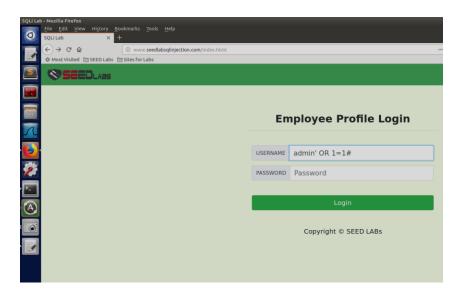
// Create a De Connection

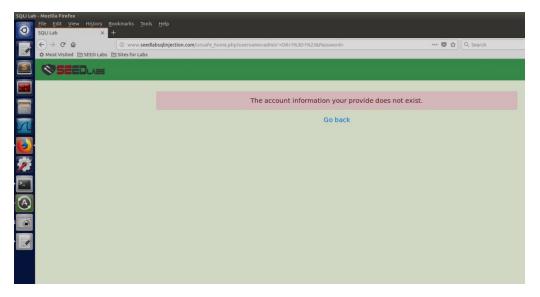
Subpass="seedubuntu";

// Create a De Connection

seedue */div*;

echo *
```





We created prepared statement into php script where we take the input, store them into another parameter and then use these parameter. We are not directly parsing the input into the sql statement.