Lab #03 - SQL injection

Lab Group 13
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Task 1: Get familiar with SQL statements

Printing bobys salary

Printing Samys SSN

Task 2: SQL injection attack on SELECT statement

Task 2.1 SQL Injection attack from the web page

```
seed@VM: .../SQLInjection
                                                seed@VM: .../SQLInjection
[03/14/23]seed@VM:~/.../Labsetup-3$ cd
[03/14/23]seed@VM:~$ cd /var/
[03/14/23]seed@VM:/var$ cd www/
[03/14/23]seed@VM:.../www$ ls
html SQLInjection
[03/14/23]seed@VM:.../www$ cd SQLInjection/
[03/14/23]seed@VM:.../SQLInjection$ ls
         safe edit backend.php unsafe edit frontend.php
CSS
defense
          safe home.php
                                      unsafe home.php
index.html seed logo.png
logoff.php unsafe edit backend.php
[03/14/23]seed@VM:.../SQLInjection$ sudo nano unsafe home.php
```

```
seed@VM: .../SQLInjection
                                                     seed@VM: .../SQLInjection
 GNU nano 4.8
                               unsafe_home.php
       <?php
           ion start();
      // if the session is new extract the username password from >
      $input uname = $ GET['username'];
      $input_pwd = $_GET['Password'];
      $hashed pwd = shal($input pwd);
      // check if it has exist login session
      if($input uname=="" and $hashed pwd==shal("") and $ SESSION[>
         $input_uname = $_SESSION['name'];
         $hashed_pwd = $_SESSION['pwd'];
      // Function to create a sql connection.
      function getDB() {
         $dbhost="10.9.0.6";
         $dbuser="seed";
         $dbpass="dees";
         $dbname="sqllab users";
         // Create a DB connection
^G Get Help
^X Exit
              ^O Write Out ^W Where Is ^R Read File ^\ Replace
                                            ^K Cut Text ^J Justify
^U Paste Text^T To Spell
```

Task2.2 SQL injection from command line

```
ername=Admin%27+++%23&Password='
<!--
SEED Lab: SQL Injection Education Web plateform
Author: Kailiang Ying
Email: kying@syr.edu
-->

<!--
SEED Lab: SQL Injection Education Web plateform
Enhancement Version 1
Date: 12th April 2018
Developer: Kuber Kohli

Update: Implemented the new bootsrap design. Implemented a new Navbar at the top with two menu options for Home and edit profile, with a button to logout. The profile details fetched will be displayed using the table class of b ootstrap with a dark table head theme.

NOTE: please note that the navbar items should appear only for users and the pag e with error login message should not have any of these items at all. Therefore the navbar tag starts before the php tag but it end within the ph
```

Task 3: SQL injection attack on the UPDATE statement

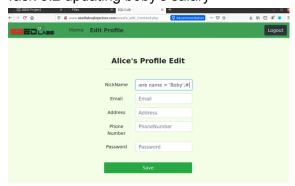
Task 3.1 modifying salary of Alice to salary=500000 and EID=10000



Showing Alice's profile to see changes made



Task 3.2 updating boby's salary



Showing changes to bobys salary on his profile



Task 3.3 changing password using SHA-1 format

Selecting a row from the credential table in the database

Showing the password change for bobby