Task-1: To setup Mutillidae:

A screenshot of a computer

Description automatically generated

Task-2: Next, using an apostrophe (‘), break the query by inserting it in the “Name” field only and then clicking on “View Account Details”. Provide a screenshot of this outcome.

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Task-3: From the previous Task, you should be able to see what SQL query was being executed. Provide a screenshot of the query as well as a screenshot of the name of the table that the query is referencing.



Task-4: Using only the Username field and the name of the table from the previous task, perform a SQL Injection attack that will show ALL of the user accounts from the table. Provide the exact input that was used along with screenshots of the screens that results. Highlight your specific account in the result.

A screenshot of a computer

Description automatically generated

Task-5: login using only your username along with an apostrophe (i.e. ‘) and capture a screenshot.

Using {your\_username}’-- (there is one space at the end of this line and do not include the {}’s) in the username, attempt to login to the web app. Take a screenshot of what you see next.

A screenshot of a computer

Description automatically generated

A screen shot of a computer

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Task-6: Question & Answer

1. What Worked well for me?

Ans. During an assignment, Mutillidae work very well in PC and because of that I complete my assignment very well. In beginning, it was hard to understand the software but then I used to with it and I had done my task.

1. What didn’t work well and how you resolved the issues?

Ans. I was facing an issue in Task-4 where I have to find all username and password of all account but at the end with the help of some resources I had done that task and I found my final result furthermore, Task-5 is also tricky to understand but it was easy.

1. What is one thing that you were able to learn or accomplish through this Assignment that you did not know prior to starting.

Ans. When I started this assignment, I didn’t had any idea about Mutillidae but during assignment I learned about it even though I did 4 task related to that and it gave me good help to understand.

1. What can be done to prevent such attacks from occurring?

Ans. Organizations should focus on security principles to prevent assaults on online apps. The importance of regular updates, effective authentication, and access controls cannot be overstated. Monitor and filter traffic using firewalls, intrusion detection, and web application firewalls. Conduct security testing, secure code training for developers, and user education. Prepare an incident response strategy and make data encryption and safe backups a priority. Monitor and log activity, evaluate third-party security, and verify regulatory compliance. Creating a culture of cybersecurity awareness is critical for long-term security.

Reference:

1. SQL Injection. (n.d.). https://www.w3schools.com/sql/sql\_injection.asp
2. *MySQL 8.0 Reference Manual :: 9.7 comments*. MySQL. (n.d.). https://dev.mysql.com/doc/refman/8.0/en/comments.html