

## Department of **Bachelor of Computer Applications**

Information Security & Mobile Applications - Section <A>

# Ethical Hacking Fundamentals Activity #01

#### **LinkedIn Learning Certification Course**

[Part-VI: SQL Injection]

Subject Code: 19BCA4C02 Class: II<sup>nd</sup> Year II<sup>nd</sup> Semester

Submitted On:

23-12-2022

By:

Suman Garai 20BCAR0246

Signature

Faculty In-Charge: Dr. Ajay Shriram Khushwaha

Signature



### Certificate

This is to certify that Mr./Ms. <u>Suman Garai</u> with USN <u>20BCAR0246</u> has satisfactorily completed the Activity I Part 1 LinkedIn Course Name: <u>SQL Injection</u> Hours: <u>1 hour 39 minutes</u> prescribed by Department of BCA, School of Computer Science & IT, Jain (Deemed-to-be-University), Bengaluru for the partial fulfilment of fifth semester <u>BCA</u> Degree Course in the year 2021-2022, and has secured \_\_\_\_\_ out of 10.

23-12-2022

Date of Submission

Signature of Student

Signature of Faculty



## **Evaluation Criteria**

Sr. No.	Criteria / Parameters	Total Marks	Marks Obtained
1	On-time submission Certification	05	
2	Certification of Completion	05	
3	Report (with Assessment Screenshots test attempted)	05	
4	Conclusion [ Minimum one page without any kind of plagiarism]	10	
	TOTAL	25	
	CONVERT	10	



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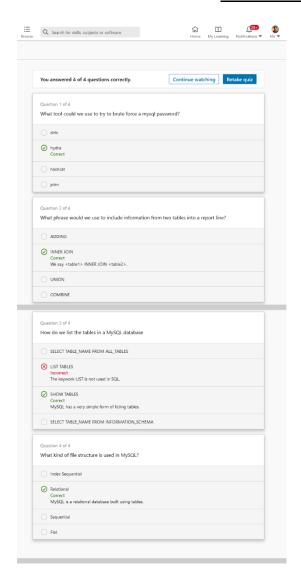
#### Introduction to the Course

With the dominance of cloud and software as a service delivery web portals are now the dominant means of accessing applications and are often supported by a backend SQL server. With the prevalence of SQL, adversaries will look for every opportunity to take advantage of unprotected SQL based applications to gain access to our information and systems. We need to protect our systems and that means understanding the basics of the SQL language and understanding how it can be used to penetrate our systems. This course teaches us how SQL injections work.

#### Learning objectives

- Injection in Mutillidae
- Injection in Microsoft & Oracle SQL Servers
- Cracking SQL hash
- SQL Injection via Burp Suite
- Defeating WAF
- SQLI Labs

## **Screenshots**



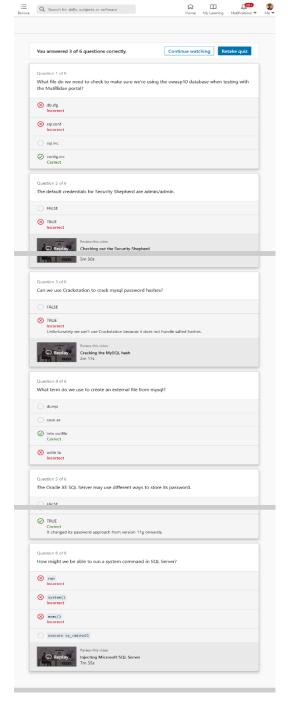


Figure: Section 01 - SQL Basics

Figure: Section 02- Testing for SQL Injections

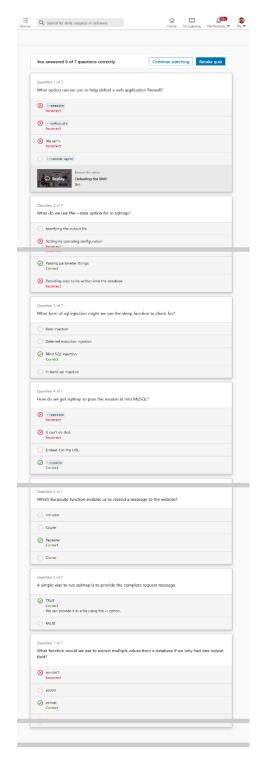


Figure: Section 03 - Automating SQL Injection Exploits

## **Conclusion**

SQL injections are a common way to gain unauthorized access to web applications and extract data from them. In this course, instructor He shows you the SQL command language and how it is used by attackers to craft SQL Injections. He begins with commonly encountered relational databases and the basics of the SQL command language. Then he focuses on advanced SQL commands that may be used by attackers to achieve SQL injections. He explains how to use a simple Python script and how an SQL injection changes the backend SQL query. Then he demonstrates how SQL injections could be used to exploit some testing targets. He steps through the process of automating SQL injection exploits, then finishes with advice on how to continue to hone your skills as a penetration tester.

## **Certificate**

