ACIT 3910

Lab Report:

# Create Users, Roles and Privileges in MySQL8

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Introduction

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In this lab, I learned how to create and delete users, assign roles, and manage privileges in MySQL 8 on a Windows VM. The screenshots below the introduction show how it was generated. Following the lab instructions, I created eight users and four roles: Sales, HR, Management, and Inventory. Each role was assigned the privileges SELECT, INSERT, UPDATE and DELETE. Subsequently, I assigned these roles to each user and activated them for all eight users using SET DEFAULT ROLE ALL TO 'Helen'; Finally, to verify the configuration, I generated a results.txt file that contained details of the users, their roles, and the privileges, which can ensure that everything was set up correctly according to the lab instructions.

Screenshot #1:

This screenshot shows that a new user, delete\_me, was created by the root user. The delete\_me user was granted SELECT privileges on the employees.employees table, the grant was verified using the command SELECT \* FROM employees.employees limit 3; and the current session confirmed that delete\_me is logged into MySQL with SELECT CURRENT\_USER();

Filename: **01\_New\_User\_Allowed.png**

A screenshot of a computer

Description automatically generated

Screenshot #2:

The lab scenario assumed the SELECT permission was accidentally granted to the delete\_me user. To correct this, the REVOKE SELECT ON employees.employees FROM 'delete\_me'; command was executed. An attempt to SELECT again confirmed the permission error. Additionally, the command SHOW GRANTS; was executed to verify the delete\_me user's permissions.

Filename: **02\_New\_User\_Denied.png**

A screen shot of a computer

Description automatically generated

Screenshot #3:

Next, this screenshot shows that I removed the user delete\_me and the command SELECT user, host FROM mysql.user; confirmed that the user has been successfully removed.

Filename: **03\_New\_User\_Removed.png**

A screen shot of a computer

Description automatically generated