

Homework 9 Databases

due April 13, 2025

Procedure:

Provide SQL code for all problems. Also, provide screen shots of your results or interactions. (Please use black on white for ease of checking.) You do not have to show all the results as they can be large, but large enough to allow the grader to check your work.

Use the mysqltutorial.org pages for MySQL administration. We will be using the classicmodels database.

Problem 1

Find all global and session variables and the version of MySQL that you are running.

Problem 2

Create a user Bob with password "Abc12345". Show that after creation, Bob cannot access the database "classicmodels".

Problem 3

Grant Bob all privileges on the database "employees". Show that Bob now can read from a table in this database. **As Bob**, insert a new department 'D19' — Computer Science into the departments table. After checking the insertion, delete this row. Revoke the update and insert privilege for Bob. Can he still insert? What happens if Bob logs out and then logs in again? Finally, remove all privileges from Bob.

Problem 4

Create a role cm_payments_writer. Assign all privileges to this role on the classicmodels - payments table. Then grant this role to Bob.

Sign in as Bob. Can Bob read the payments table? What does Bob has to do in order to read the payments table?

Problem 5:

Find all users. Then drop all newly created users and roles.