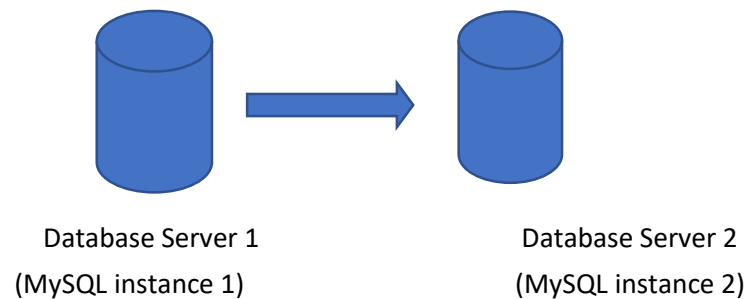


### INT 2080 Final Project (200 marks)



This project will be testing MySQL database upgrade from version 5.5 to version 8/9. Here are the instructions:

- You will be upgrading database from one version to another.
  - Database 1 must be a lower version from 5.x (any version in 5.x)
  - Database 2 must be higher version from 8.x (any version after MySQL 8.x)
  - You can use the same computer to install both software. You can also use separate computer if available and use flash disk to copy backup files.
1. Set up Database 1:
    - a. In order to set up Server 1, download MySQL 5.x Software and install on your PC. Ensure that you capture all screens during your installation.
    - b. From commandline, login to Database Server 1 and create a database named “students”.
    - c. Create a script to create 5 tables with 10 values each. Each table must contain auto increment and primary keys.
    - d. From commandline, run the script created in 1c and take screenshots.
    - e. From commandline, run commands to display all objects created. Using MySQL Workbench also, show all objects created.
  2. Set up Database Server 2:
    - a. To set up Database Server 2, download and install MySQL 8.x or higher. Capture all steps in your screenshots.
    - b. Connect to Database Server 2 from MySQL Workbench and create a database named “students\_2”.
    - c. Display objects created in 2b from MySQL Workbench.
    - d. From MySQL Workbench, display all databases on the Server 2.
  3. Perform database export and restore

- a. Using mysqldump utility from commandline, take a backup of the “students” database on Database Server 1 (Version 5.x). Name the backupfile “student.sql”.
  - b. Using MySQL Workbench, restore the backup file from 3a (“student.sql”) into the “students\_2” database in the Database Server 2 (Version 8.x and higher) MySQL instance that was created in 2b.
  - c. Using MySQL Workbench, display the new content of the Database Server 2 instance.
  - d. Compare content of Server 1 (student database) and Server 2 (student\_2 database). Are they different? Explain.
4. Run required scripts to update the tables in Database Server 2. Read documentations about this step. Attach scripts run to your submission.
  - 4a. Did the script run successfully? Explain why this script(s) is needed.
  - 4b. What precautions did you take while running the script?
5. What precautions did you take while completing all of these tasks (database upgrade)?
6. What other strategy could be used to complete database upgrade?

NOTE:

- Screenshots and explanation must be created for all steps in Q1-3. Insert all screenshots in a MS Word or similar document and convert to pdf.
- All screenshots must be full screen showing dates on the taskbar
- Attach script created in 1c to your submission
- Answer all questions