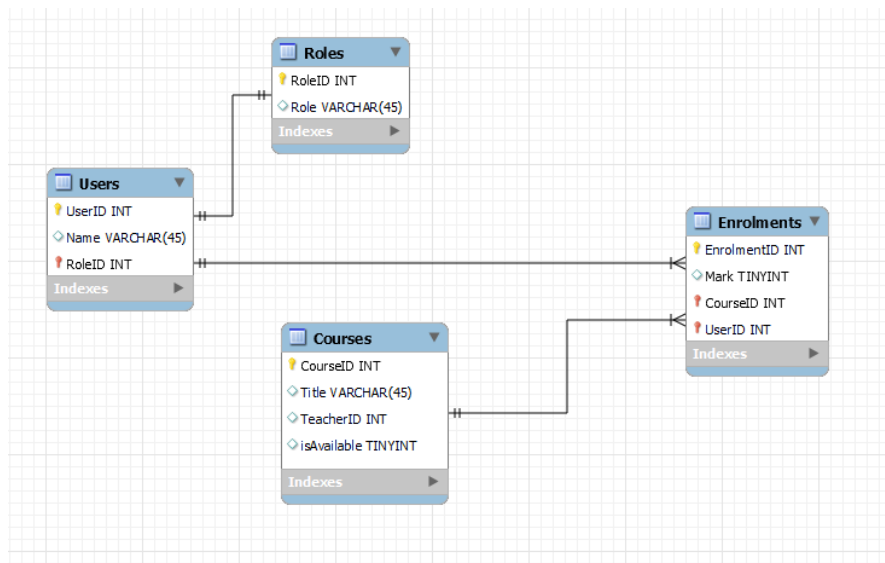


Database Entity Relationship Diagram:



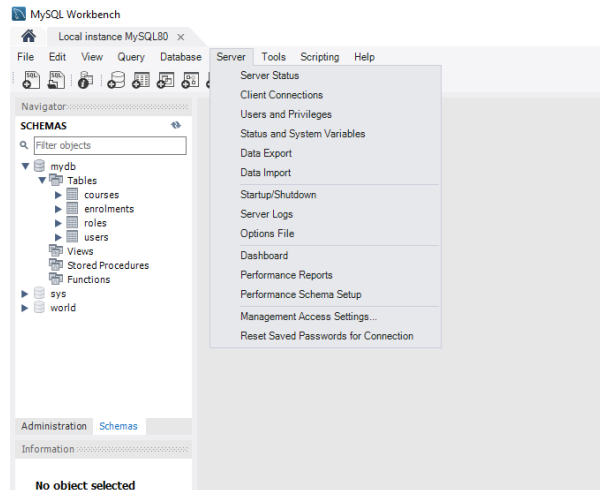
Functional requirements:

- 1) Admins should be able to enable or disable the availability of a course
- 2) Admins should be able to assign one or more courses to a teacher
- 3) Students can browse and list all the available courses and see the course title and course teacher's name.
- 4) Students can enrol in a course. Students should not be able to enrol in a course more than once at each time.
- 5) Teachers can fail or pass a student.
- 6) Access control for Admins, Teachers and Students: Ensure only the authorized access can perform an action. For example, only teachers can pass/fail a student.

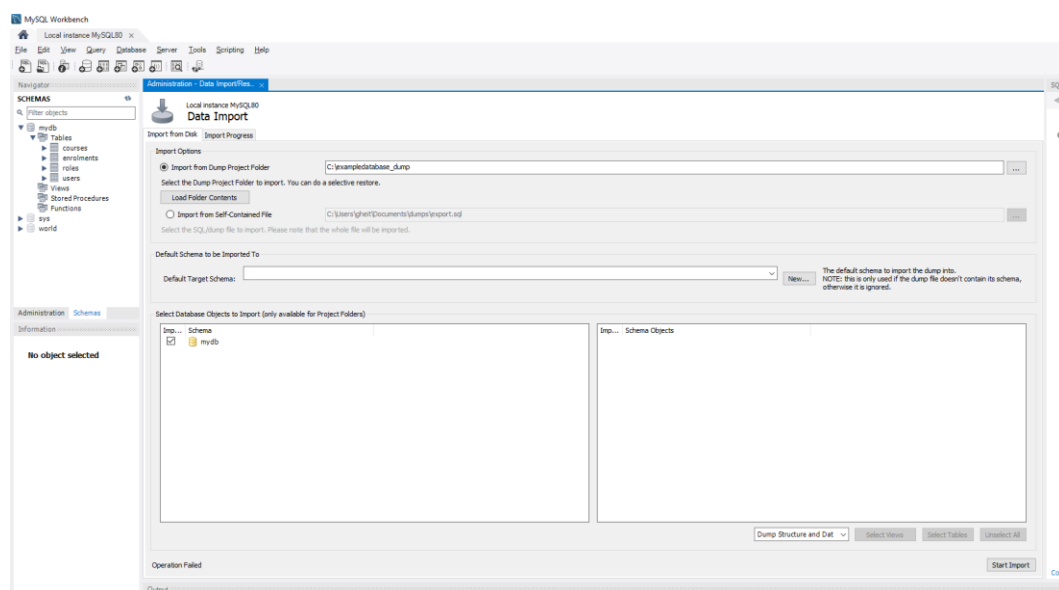
Here is a suggested method: In the API, on every request, get the primary key of a user as part of the request/input parameters and before performing an action, check if the user with the primary key is authorized to perform a request.

Instructions to import the college database structure and dummy data:

- 1) Download the database_dump.zip file and unzip it in a folder.
- 2) Open MySQL workbench and navigate to "Data import" under the "Server" menu.



- 3) In “Data Import”, select “Import from dump project folder” and navigate to the folder that you have unzipped the files.
- 4) Click on “Load folder content” button and ensure that the “mydb” database is selected.



- 5) Click “Start import” button and you should have the database the in your “Schemas” list. If you don’t see the database, try refreshing the database connection.

Optional: If you want to learn about database imports and exports, have a look at this short video: https://www.youtube.com/watch?v=Jvul-wr-_Bg