Many Students in Many Courses

This assignment will be a Python program to build a set of tables using the Many-to-Many approach to store enrollment and role data.

This course uses a third-party tool, Many Students in Many Courses, to enhance your learning experience. The tool will reference basic information like your name, email, and Coursera ID.

☑ I, **ISHAAN NARULA**, understand that submitting another's work as my own can result in zero credit for this assignment. Repeated violations of the Coursera Honor Code may result in removal from this course or deactivation of my Coursera account.

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Open Tool

Done

Your answer is correct, score saved.

Welcome Ishaan Narula from Using Databases with Python

To get credit for this assignment, perform the instructions below and enter the code you get here:

XYZZY416172657A736933313030 Submit

(Hint: starts with XYZZY41617)

Instructions

This application will read roster data in JSON format, parse the file, and then produce an SQLite database that contains a User, Course, and Member table and populate the tables the data file.

You can base your solution on this code: http://www.py4e.com/code3/roster/roster.py - this code is incomplete as you need to modify the program to store the **role** column in th **Member** table to complete the assignment.

Each student gets their own file for the assignment. Download this file and save it as `roster_data.json`. Move the downloaded file into the same folder as your `roster.py` program.

Once you have made the necessary changes to the program and it has been run successfully reading the above JSON data, run the following SQL command:

```
SELECT User.name,Course.title, Member.role FROM
    User JOIN Member JOIN Course
    ON User.id = Member.user_id AND Member.course_id = Course.id
    ORDER BY User.name DESC, Course.title DESC, Member.role DESC LIMIT 2;
```

The output should look as follows:

```
Zulaikha|si430|0
Zita|si301|0
```

Once that query gives the correct data, run this query:

```
SELECT 'XYZZY' || hex(User.name || Course.title || Member.role ) AS X FROM
    User JOIN Member JOIN Course
    ON User.id = Member.user_id AND Member.course_id = Course.id
    ORDER BY X LIMIT 1;
```

You should get one row with a string that looks like **XYZZY53656C696E613333**.

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