Done

Welcome Chuck Severance from Web Applications for Everybody (Instructor)

Your current grade on this assignment is: 100%

To get credit for this assignment, perform the instructions below and upload your JSON export of the resulting database here:

Choose File No file chosen
(Must have a .json suffix)

Submit

Tables for the Assignment

Create the following tables in a database named "roster". Make sure that your database and tables are named exactly as follows including matching case.

```
DROP TABLE IF EXISTS Member;
DROP TABLE IF EXISTS `User`;
DROP TABLE IF EXISTS Course;

CREATE TABLE `User` (
    user_id     INTEGER NOT NULL AUTO_INCREMENT,
    name        VARCHAR(128) UNIQUE,
    PRIMARY KEY(user_id)
) ENGINE=InnoDB CHARACTER SET=utf8;

CREATE TABLE Course (
    course_id     INTEGER NOT NULL AUTO_INCREMENT,
    title         VARCHAR(128) UNIQUE,
    PRIMARY KEY(course_id)
) ENGINE=InnoDB CHARACTER SET=utf8;

CREATE TABLE Member (
    user_id       INTEGER,
    course_id     INTEGER,
    role          INTEGER,

    CONSTRAINT FOREIGN KEY (user_id) REFERENCES `User` (user_id)
      ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT FOREIGN KEY (course_id) REFERENCES Course (course_id)
        ON DELETE CASCADE ON UPDATE CASCADE,

    PRIMARY KEY (user_id, course_id)
) ENGINE=InnoDB CHARACTER SET=utf8;
```

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Note that we need to surround **User** with back-quotes (i.e. `User` because it is a keyword in later versions of MySQL.

Done

Course Data

You will normalize the following data (each user gets different data), and insert the following data items into your database, creating and linking all the foreign keys properly. Encode instructor with a role of 1 and a learner with a role of 0.

```
Buddy, si106, Instructor
Leonah, si106, Learner
Norea, si106, Learner
Peige, si106, Learner
Wesley, si106, Learner
Oluwadamiloju, si110, Instructor
Geoffrey, si110, Learner
Jed, si110, Learner
Kameron, si110, Learner
Mariam, si110, Learner
Daniyal, si206, Instructor
Darcy, si206, Learner
Layaan, si206, Learner
Ocean, si206, Learner
Sarabeth, si206, Learner
```

You can test to see if your data has been entered properly with the following SQL statement.

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

The order of the data and number of rows that comes back from this query should be the same as above. There should be no missing or extra data in your query.

What Turn In

When you have the data all inserted, use phpMyAdmin to Export the data as follows:

- Select the database (do not select a table within the database)
- Select the Export Tab
- Select "Custom - display all possible options"
- Select "Save output to a file"
- Set the format to JSON
- Do not select "pretty print" the output
- Leave everything else as default and run the export.

The output will be on a file named "roster.json" that should look like the following:

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```
/**
 Export to JSON plugin for PHPMyAdmin
 @version 0.1
 */

// Database 'roster'
// roster.Course

[{"course_id":"6","title":"si106"}, ... }]

// roster.Member

[{"user_id":"1","course_id":"1","role":"1"}, ... }]

// roster.User

[{"user_id":"15","name":"Areez"}, ... }]
```

It is a somewhat strange format - it is one bit of JSON for each table. You don't need to edit or even look at this file. Simply upload it above.

Instructor Only Debug

Here is a set of insert statements to achieve this assignment.

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