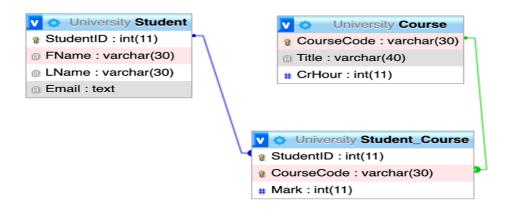


Level 2- Spring Semester Course Code: COMP 206 Date: April 23, 2024

Sheet 7

<u>Objective</u>: upon successful completion of this sheet, students should be familiar with database connectivity in PHP and able to perform CRUD operations on databases using PDO.

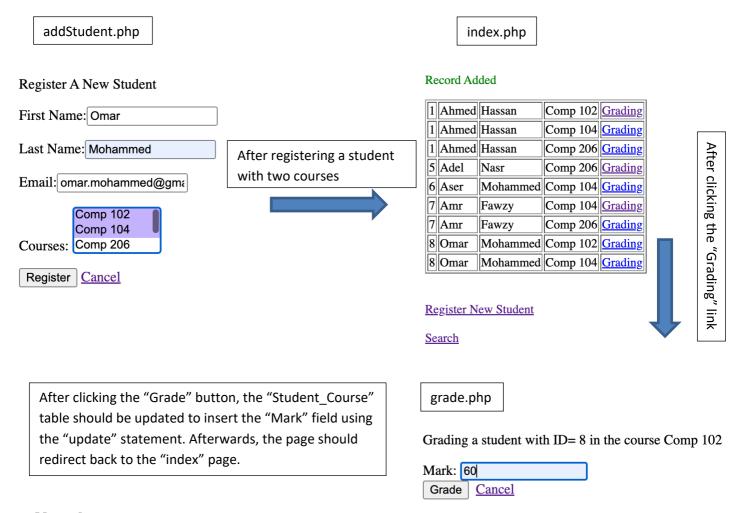
Use PHPMyAdmin to build a database named "University", which contain the following tables:



Then, create a PHP script file to perform each of the following tasks using the appropriate form controls to add, update, delete, and search for students' data:

- 1. Connect to the database.
- 2. Insert a new student's data.
- 3. Update a student's data, such as entering marks for different courses.
- 4. Delete a student's data.
- 5. Search for a specific information, such as finding students enrolled in certain courses, finding students with a mark greater than or equal to 80 in specific courses, and obtaining the number of credits for certain courses. The output should be displayed in a tabular form.

Here are some figures illustrating the structure of forms used for performing some of the above-mentioned tasks.



Note that:

- You should add some courses along with their required information to the "Course" table.
- The "Student" and "Student_Course" tables are related through the "StudentID" field. To enter course data into the "Student_Course" table after inserting the student's data, you need to keep track of the last entered StudentID. This can be achieved using the "lastInsertId()" function in the PDO object.
- One of the SQL statements that can be used to select data from multiple related tables is given below:

```
SELECT column-name1 [, column-name2] ...
FROM table-name1
INNER JOIN table-name2
ON table-name1.column-name=table-name2.column-name
WHERE ...
```