

INFSCI 2710 – Database Management – Spring 2018

Homework#2 – A Simple Web Application

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***Task 1 (20 points):** Create a PHP script - selectStudent.php - in your web server. The script is designed to display all the record of 'student' table, total number of students and the average grade. That is, when you link to <http://localhost/selectStudent.php> in your browser, you will see the similar result of Figure 1.

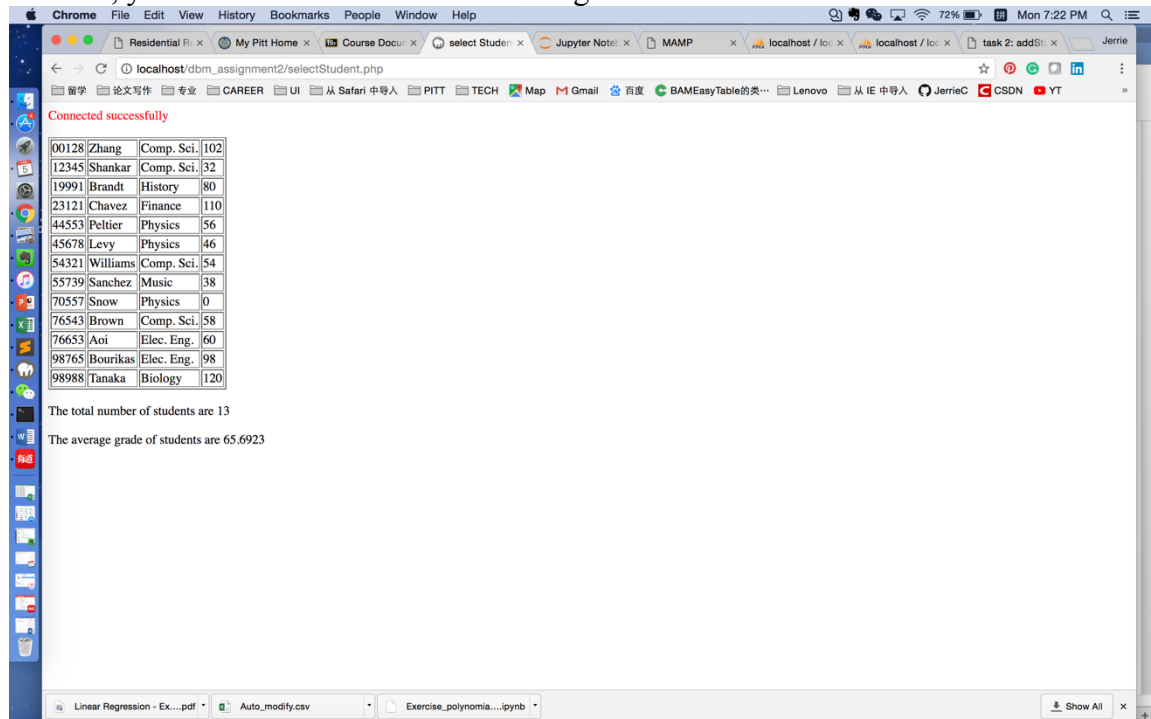


Figure 1: selectStudent.php (Task 1)

***Task 2 (20 points):** *Task 2 (20 points):

Create 1) a PHP script 'addStudent.php'; 2) an HTML file 'addStudent.html' (shown in Figure 2) in your web server. The scripts are designed to insert a new record to 'student' table.

That is, when you link to <http://localhost/addStudent.html> in your browser, you will see the similar result as below. The department field should be designed as a dropdown list to fulfill the requirement of the foreign key.

After input all the fields and click submit.

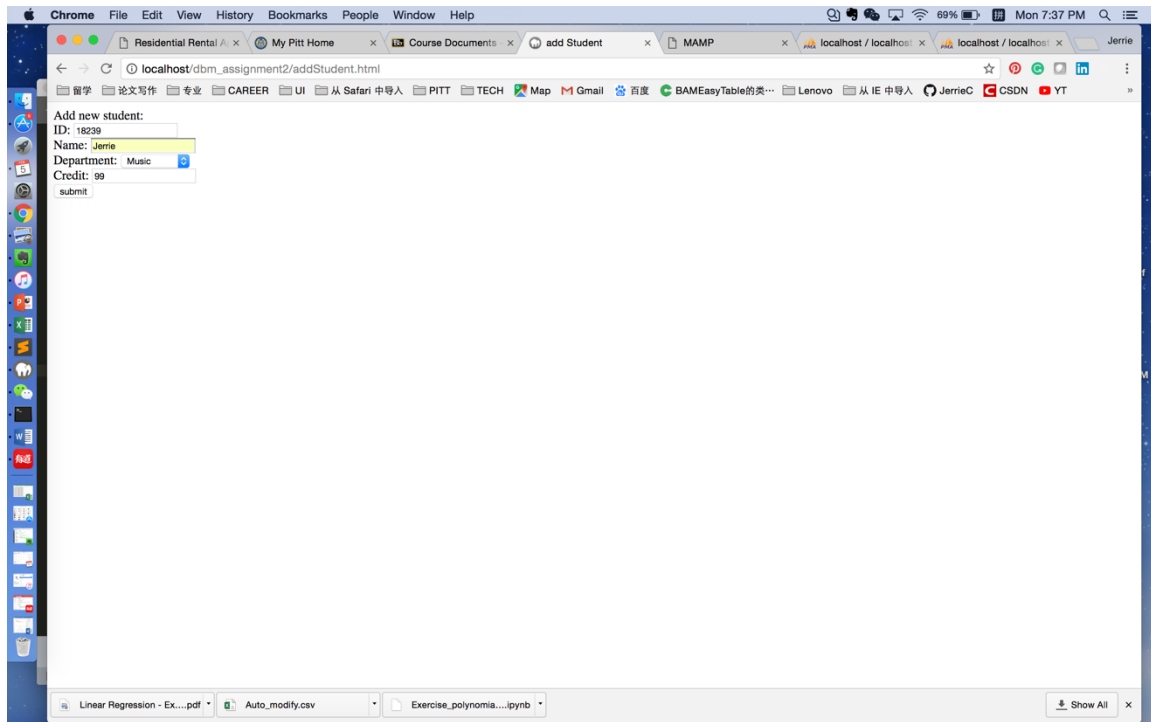


Figure 2: addStudent.html (Task2)

Let the user know if the work is done. If the input is right and successful, then the php website will look like this.

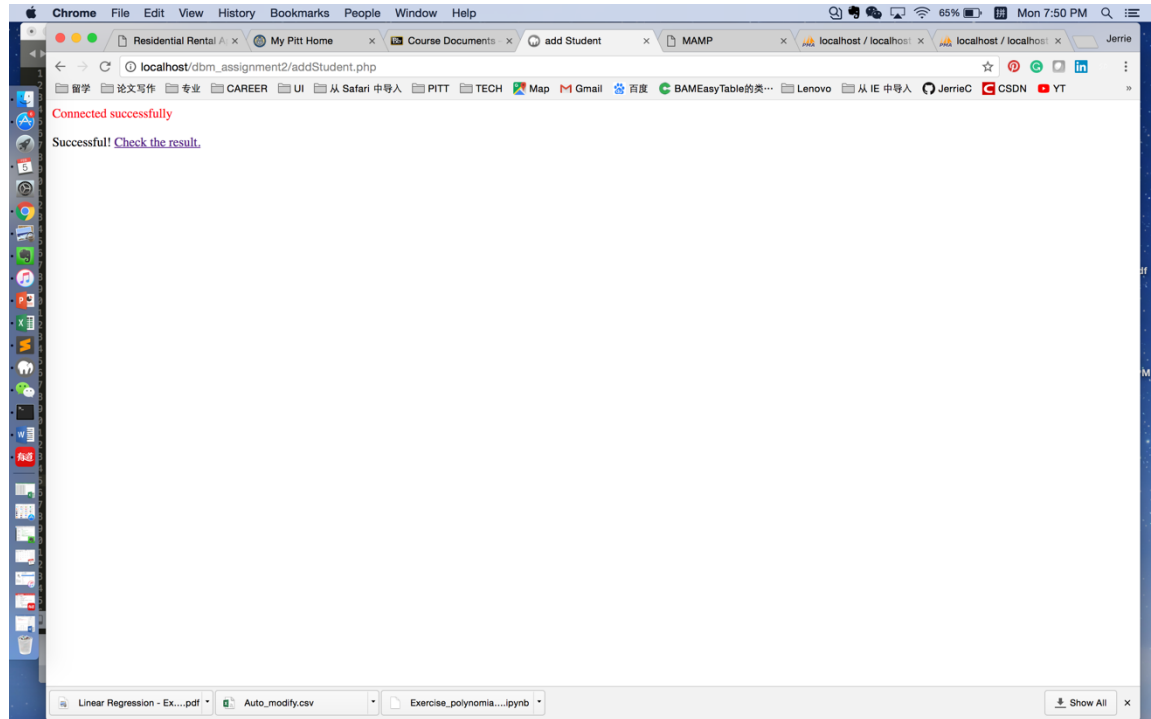


Figure 3: addStudent.php (Task2)

Then click “check the result”, the website skip to selectStudent.php, The new student profile will be inserted into the database.

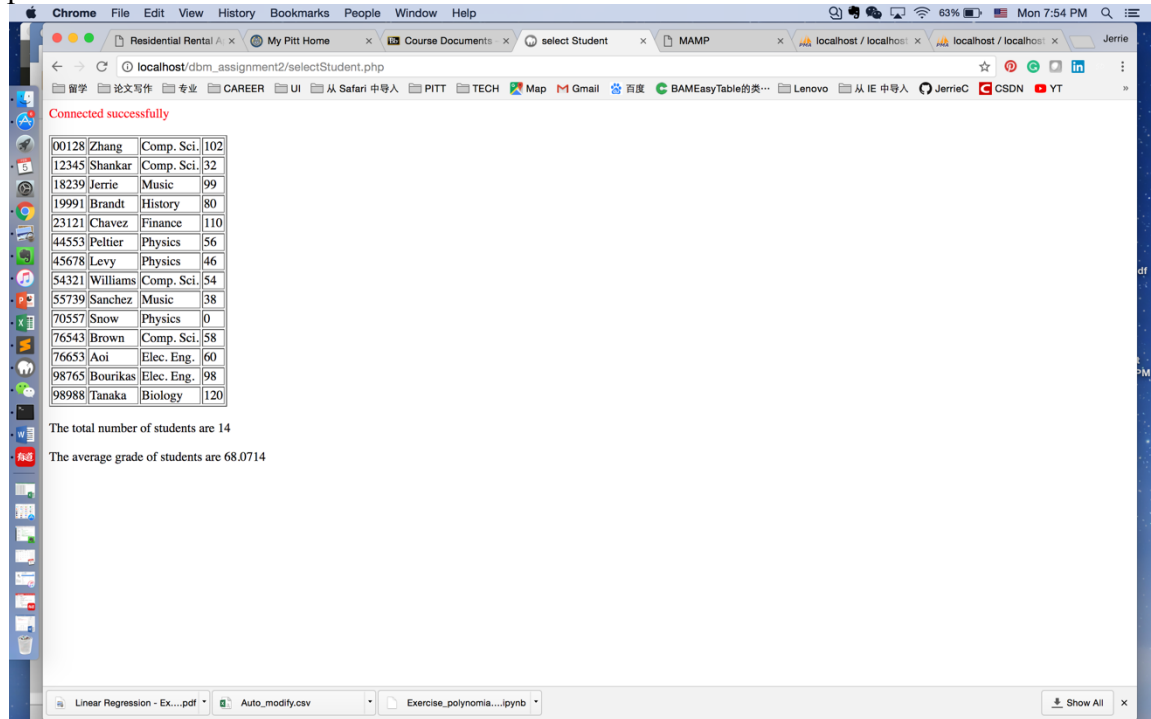


Figure 4: selectStudent.php (Task2)

Let the user know if the input in addStudent.html is unsuccessful.

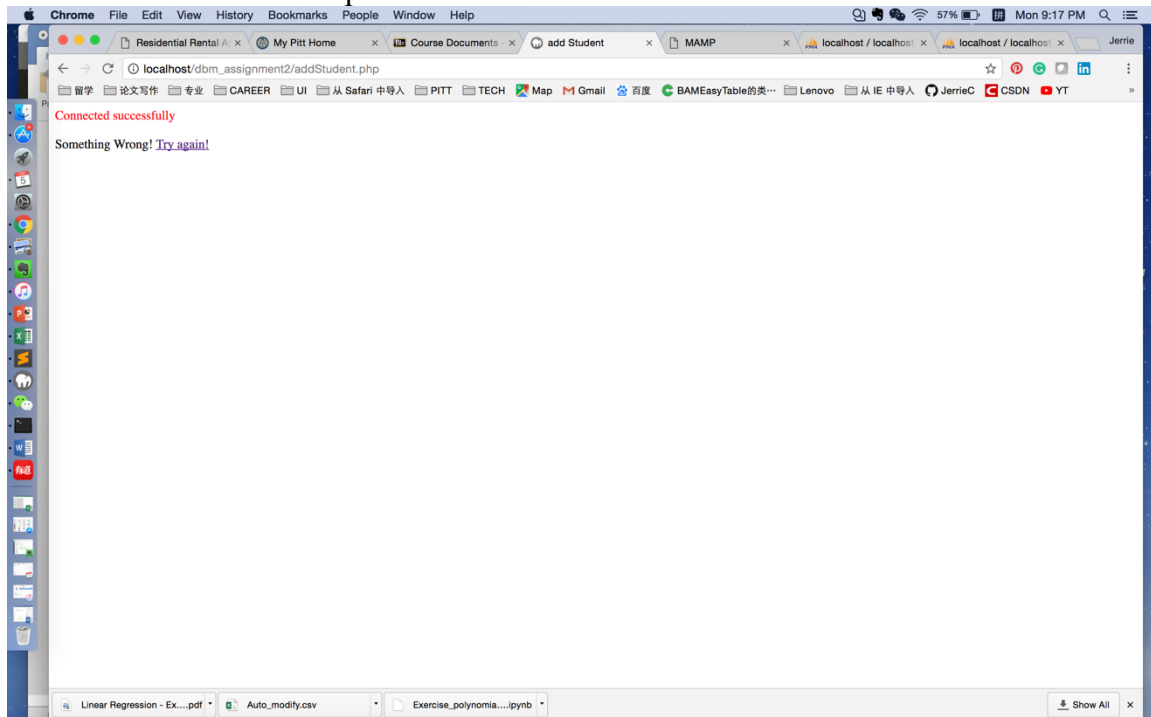


Figure 5: addStudent.php (Task 2)

***Task 3 (20 points):** 1) Create a PHP script ‘deleteStudent.php’; 2) Modify the script of ‘selectStudent.php’ with a new ‘Delete’ link in each row (shown in Figure 4) and a “Add New Student” link (point to addStudent.html) on the top. That is, when you click the link, the data row will be deleted.

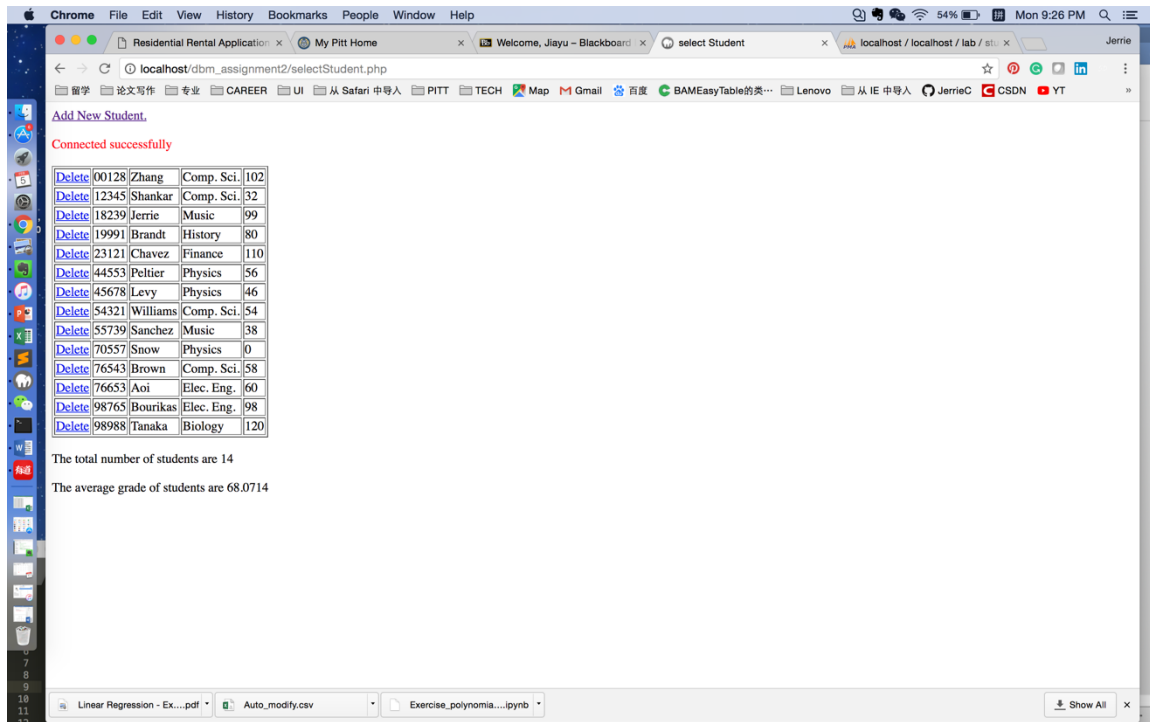


Figure 6: selectStudent.php (Task 3)

After click the Delete link. The student profile will be deleted from the database. Let the user know if the work done (with a link back to selectStudent.php) or unsuccessful (with a link back to selectStudent.php) as shown in Figure 5.

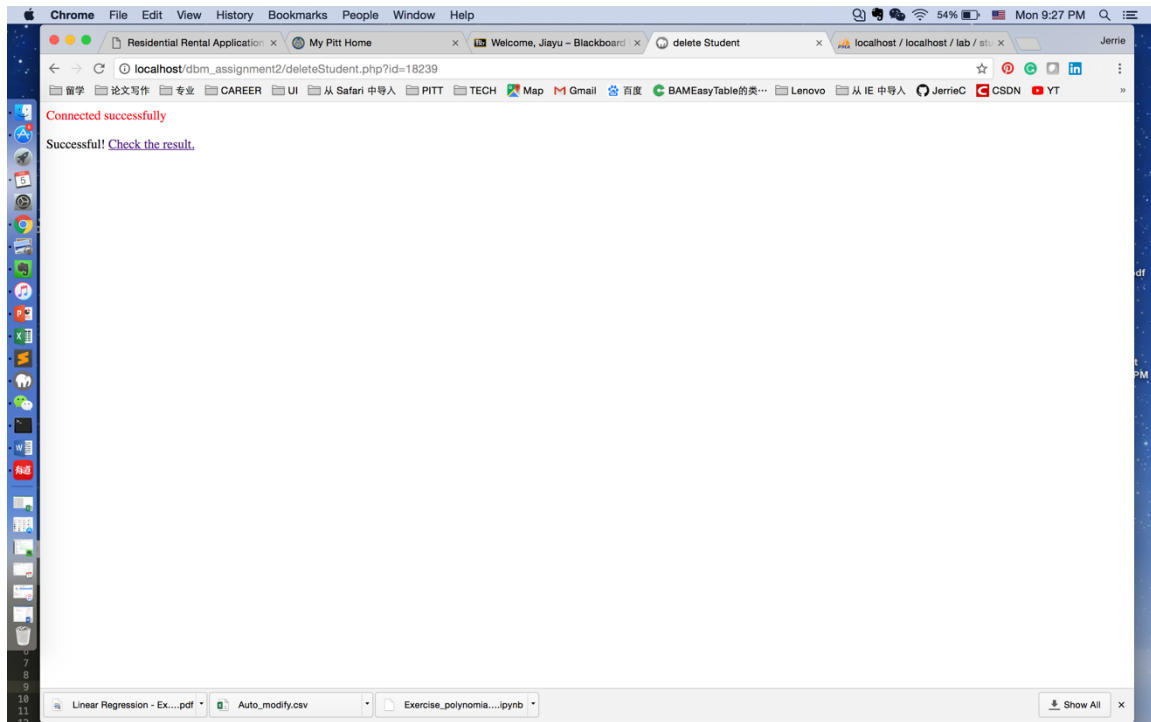


Figure 7: deleteStudent.php (Task 3)

***Task 4 (40 points):**

- 1) Create a PHP script 'updateStudent.php'; 2) Create a PHP script 'editStudent.php'; 3) update your PHP script 'selectStudent.php' with a new 'Edit' link in each row of data.

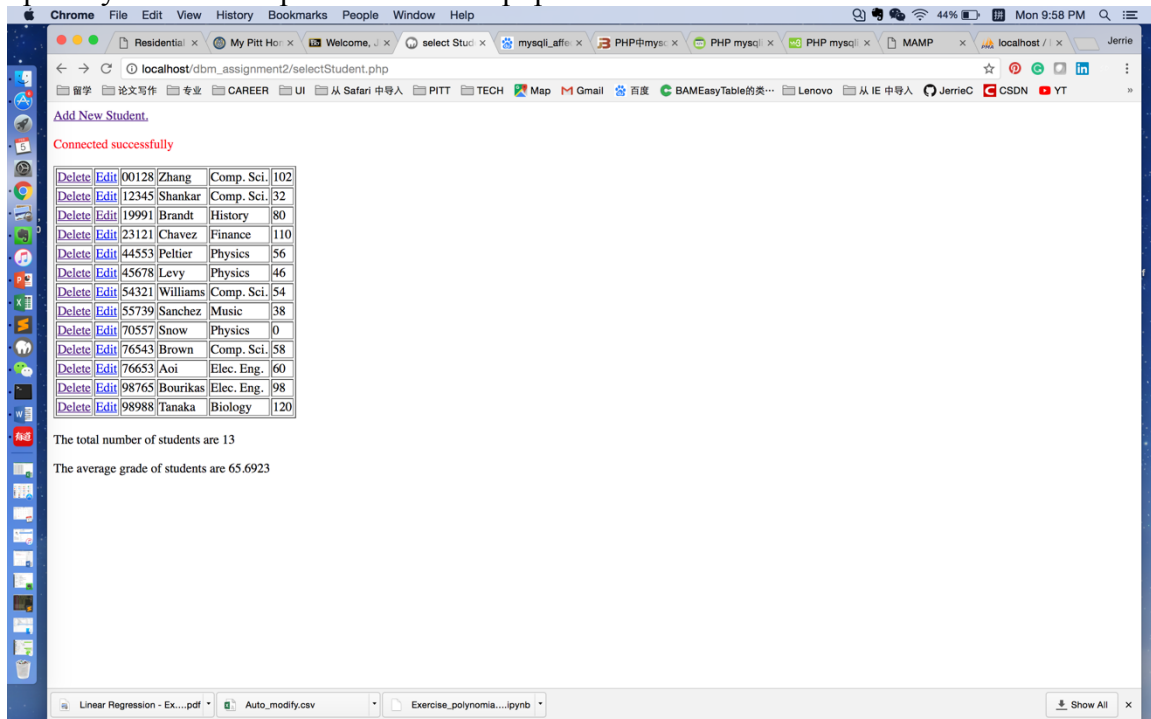


Figure 8: selectStudent.php (Task 4)

User will be directed to a new page that you can update the student data when you click the Edit link. (The ID is not editable)

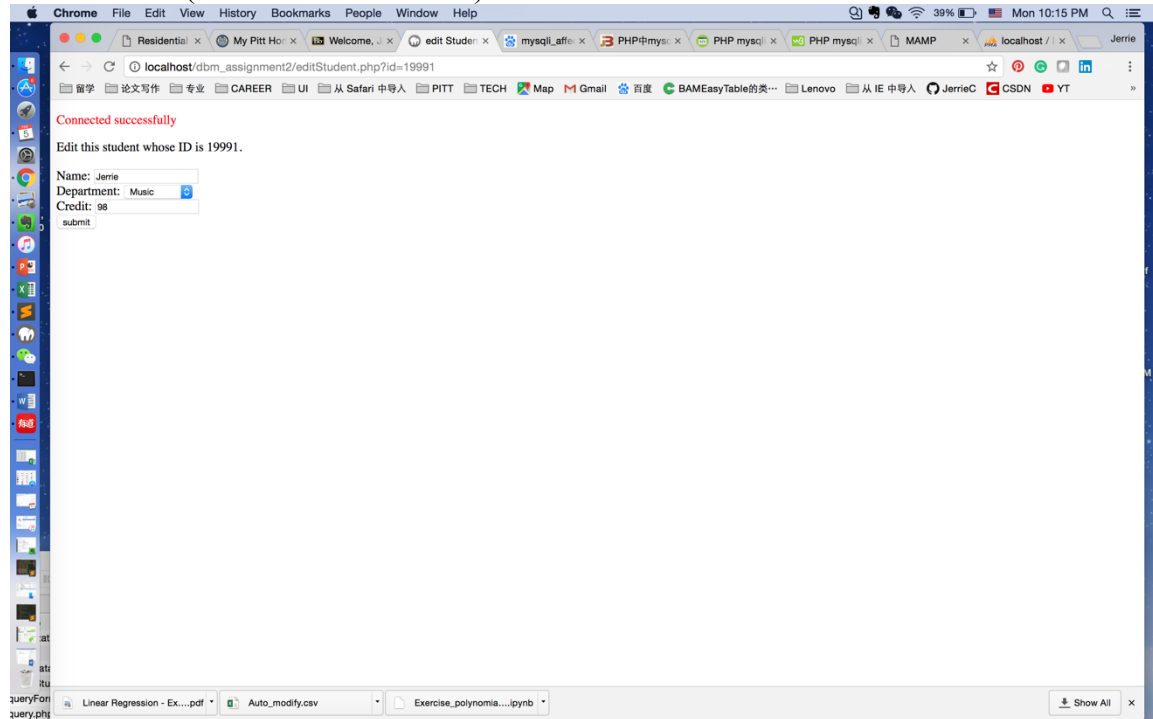


Figure 9: editStudent.php (Task 4)

After you input all the fields and click submit. The new student profile will be updated to the database.

Let the user know if the work done (with a link back to selectStudent.php)

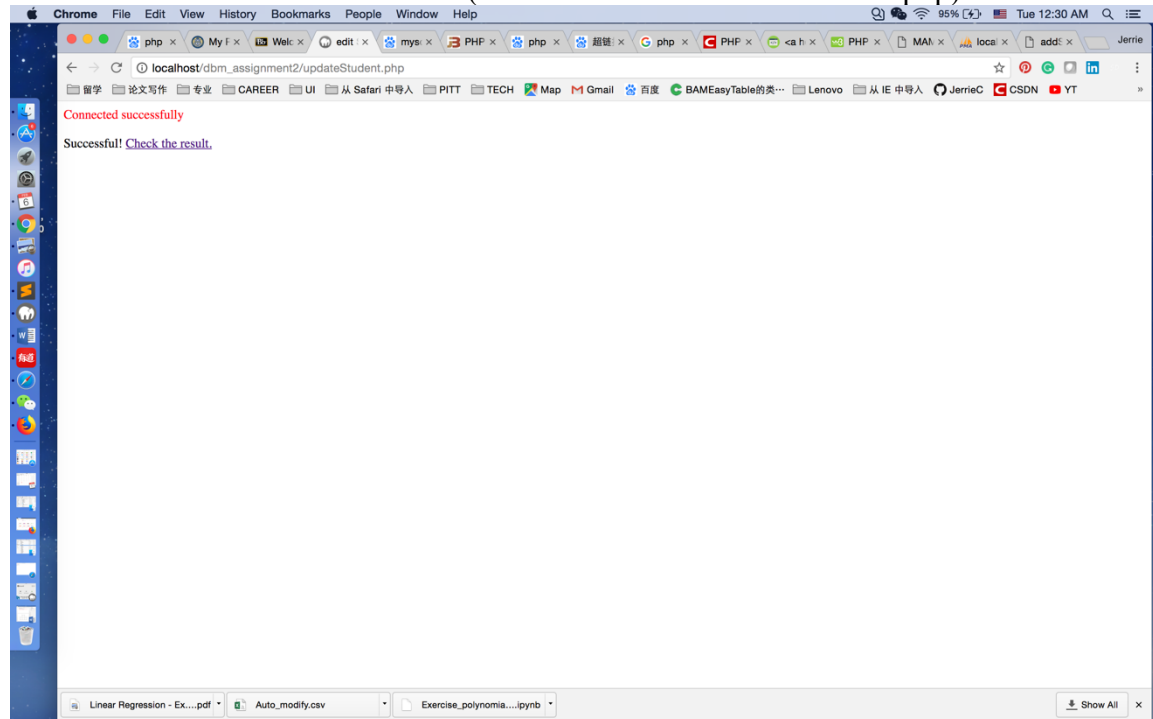


Figure 10: updateStudent.php (Task 4)

If unsuccessful (with a link back to selectStudent.php)

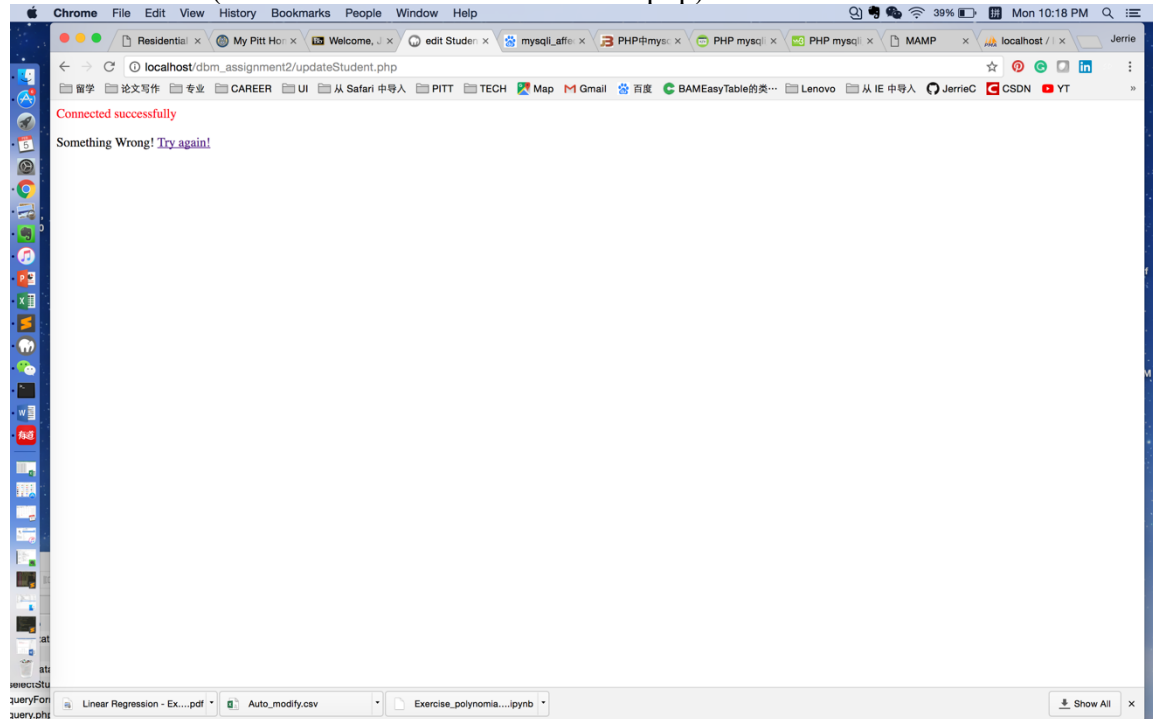


Figure 11: updateStudent.php (Task 4)

***(Optional) Bonus Task (10 Points):** Please try to add two student profiles using the function of Task 2.

- Student#1 {name=**Peter O'Donovan**, department=Finance, grade=90}
- Student#2 {name=Peter Lee, department=Music, grade=**Ten**}.

Question 1: Is there any issue while you are adding the two profiles?

Question 2: How can you solve the issues you observed? Please discuss or show your solution (code) below.

Question 1:

1. The first input will only make have a part of name in the result table because of the symbol “ ’ ” has a conflict with that in sql query.
2. The second input will make the error of unknown column 'Ten' in 'field list'. The input of credit should be the type of numeric but not varchar.

Question 2:

1. We should convert the symbol which has conflict with the sql language to another symbol and then convert back.
2. We should take a method to convert the word into numeric value.