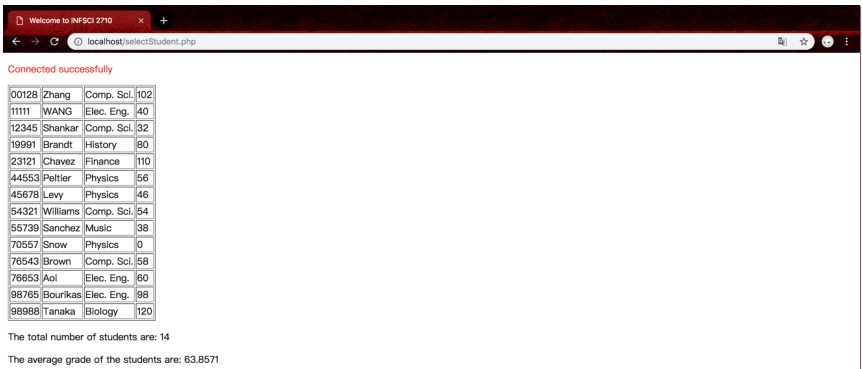


INFSCI 2710 – DATABASE MANAGEMENT – FALL 2018

HOMEWORK#1 – A SIMPLE WEB APPLICATION

*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.

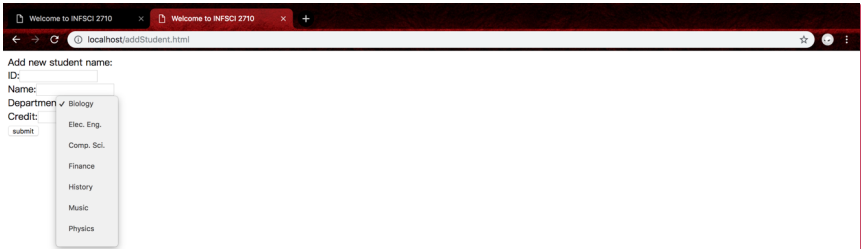


批注 [WZ1]: The code has three parts. The first one is to connect the database lab. The second one is to select the student table form the database. The third one is to use the function count() and AVG() to calculate the number of the student and the average credit of the students.

圖表 1SELECTSTUDENT.PHP RESULT

*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 you input all the fields and click submit. The new student profile will be inserted into the database. And you should let the user know if the work is done (with a link back to [selectStudent.php](#)) or unsuccessful (with a link back to [addStudent.html](#)) as shown in Figure 3.



批注 [WZ2]: The addStudent.html have three text box and when we need to add a new student we can print the ID, name and the credit. And we have a Drop-down menu to let us choose the department. Finally, we can use the "submit" to submit the information. If we succeed, we will accept the notation "successful" and we can use the linking "check the result" to come to the "selectStudent.php" to check the information of the student we added.

圖表 2ADDSTUDENT.HTML EFFECT



批注 [WZ3]: If we don't input the correct e.g. the ID number is six, it will remind us that something is wrong and we need to try again.

*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.

After you click the Delete link. The student profile will be deleted from the database. And you should 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.

Welcome to NFSCI 2710

localhost/selectStudent.php

Add New Student

Connected successfully

Delete	00128	Zhang	Comp. Sci.	102
Delete	12345	Shankar	Comp. Sci.	32
Delete	19991	Brandt	History	80
Delete	23121	Chavez	Finance	110
Delete	44553	Peltier	Physics	56
Delete	45678	Levy	Physics	46
Delete	54321	Williams	Comp. Sci.	54
Delete	55739	Sanchez	Music	38
Delete	70557	Snow	Physics	0
Delete	76543	Brown	Comp. Sci.	58
Delete	76653	Aoi	Elec. Eng.	60
Delete	98765	Bourikas	Elec. Eng.	98
Delete	98989	Tanaka	Biology	120

The total number of students are: 13

The average grade of the students are: 65.6923

批注 [WZ4]: I add a new link at the beginning of each row of the table and when we click this link we can delete one student' s information from the database lab. And if I succeed, I can be linked to the following page and it will remind me that I have succeeded and I can check the result in" localhost/selectStudent.php" .

Welcome to the NFSCI 2710

localhost/deleteStudent.php?id=19002

Connected successfully

Successful! [Check the result!](#)

*Task 4 (35 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 (shown in Figure 6).

You will be directed to a new page that you can update the student data when you click the Edit link (shown in Figure 7). (The ID is not editable.)

After you input all the fields and click submit. The new student profile will be updated to the database. And you should 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 8.

Chrome 文件 修改 视图 历史记录 书签 其他人 帮助

Welcome to NFSCI 2710

localhost/selectStudent.php

Add New Student

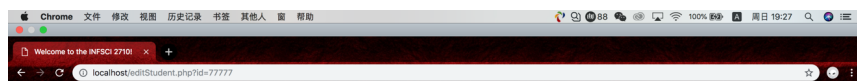
Connected successfully

Delete	Edit	12345	Shankar	Comp. Sci.	32
Delete	Edit	14444	Wang	Biology	32
Delete	Edit	19002	Jake	Comp. Sci.	92
Delete	Edit	19991	Brandt	History	80
Delete	Edit	23121	Chavez	Finance	110
Delete	Edit	44553	Pettier	Physics	56
Delete	Edit	45678	Levy	Physics	46
Delete	Edit	54321	Williams	Comp. Sci.	54
Delete	Edit	55739	Sanchez	Music	38
Delete	Edit	70557	Snow	Physics	0
Delete	Edit	76543	Brown	Comp. Sci.	58
Delete	Edit	76653	Acı	Elec. Eng.	60
Delete	Edit	77777	clearlove	Biology	96
Delete	Edit	98765	Bourikas	Elec. Eng.	98
Delete	Edit	98988	Tanaka	Biology	120

The total number of students are: 15

The average grade of the students are: 64.8000

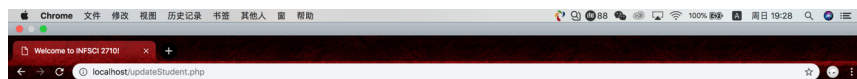
批注 [W25]: I add a new linking "edit" . When I want to update one' s information, we can click the "edit" and we can update the name, department and credit.



Connected successfully!

Add new student:

Name:
Department:
Credit:



Connected successfully!

Successful! [Check the result!](#)

批注 [WZ6]: If I update the information correctly, we can receive the reminder "successful" and we can click "check the result" to see the result.

Chrome 文件 修改 视图 历史记录 书签 其他人 帮助

Welcome to NFSC 2710

localhost/selectStudent.php

[Add New Student](#)

Connected successfully

Delete	Edit	12345	Shankar	Comp. Sci.	32
Delete	Edit	14444	Wang	Biology	32
Delete	Edit	19002	Jake	Comp. Sci.	92
Delete	Edit	19991	Brandt	History	80
Delete	Edit	23121	Chavez	Finance	110
Delete	Edit	44553	Peltier	Physics	56
Delete	Edit	45678	Levy	Physics	46
Delete	Edit	54321	Williams	Comp. Sci.	54
Delete	Edit	55739	Sanchez	Music	38
Delete	Edit	70557	Snow	Physics	0
Delete	Edit	76543	Brown	Comp. Sci.	58
Delete	Edit	76653	Aoi	Elec. Eng.	60
Delete	Edit	77777	ClearLOVE	Music	0
Delete	Edit	98765	Bourikas	Elec. Eng.	98
Delete	Edit	98988	Tanaka	Biology	120

The total number of students are: 15

The average grade of the students are: 58.4000

*Task 5 (5 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.

A runnable code is preferred, but you will get credit by explaining your observation and prospect solutions.

Solution: Use some "if " to judge the information we added whether we have inputted all unique information including ID, name, department and credit.

