

**CS5334.0251/0252, Spring, 2010**  
**Advanced Internet Information Processing**  
**Assignment 2**

Issued: 03/15/2010

Due: 03/31/2010

1. (10 + 15 + 15 = 40 pts) Extend the “Table” class discussed in PHP lecture as follows:
  - (1) Add a new method “rmRow” that allows a user to remove a row from the given table. The method “rmRow” takes a row of values and verifies if there exists a row that has all the given values. If yes, it will remove it.
  - (2) Similar to the “addRowAssocArray” method, add a new method “rmRowAssocArray” that will remove a row using associative array as parameters.
  - (3) Add a new method “addCol” that adds a new column to a given table. Besides the new column name to be added the method can take an optional value parameter that will be used as value of all existing rows for the added column. If this value parameter is not given then all existing rows will have value “null” for the new column.
2. (60 pts) Consider the sample program sample2.pc given in Oracle 10g’s document. Here is the comment section on top of the program file:

This program connects to ORACLE, declares and opens a cursor, fetches the names, salaries, and commissions of all salespeople, displays the results, then closes the cursor.

Convert and expand that program to a complete Web application as follows.

Instead of just fetching the names and etc of all salespeople, the modified program will ask a department number or name. Your application will present a Web interface to a user. The interface has four options: an option for a user to enter a department number, an option for a user to provide a department name, an option for a user to enter a salary value, and an option for a user to enter a commission value.

- For each department number or name supplied by a user through the Web interface, your application will either respond with the three pieces of information as HTTP replies, or respond with error information.
- For each salary or commission value entered by a user, your program will list names together with their salaries or commissions for all employees whose salaries or commissions are equal to or higher than the provided salary or commission.

You can use either Perl or PHP as the CGI scripting language. The two tables *emp* and *dept* involved in this problem are available in the sample use SCOTT’s schema.

Again, place a copy of each of your programs to:

<ftp://glaciers.cs.txstate.edu/pub/teaching/cs5334/sp-10/hw2/Your-last-name>

As for assignment 1, please notice that for security reasons, your upload operations can only be done from computers on campus. The ftp has to be performed using regular ftp, not secure ftp.