CSC 370 — Database Systems
Fall 2015
Assignment No. 6

Note 1 **This assignment is to be done individually.**

- Due date: July 7, 2015, at the beginning of the class.
- This assignment is worth 1% of your total course mark.

Objectives

We do not have time to cover in detail all the material that this course requires. For that reason you will have to learn some material on your own. It is important that you complete this assignment. It is almost guaranteed that anybody wanting to hire you as a database programmer in a reputable organization will ask you about your experience with stored procedures.

After completing this assignment, you will have experience:

- Creating a stored procedure.
- Creating a trigger.

Your task, should you choose to accept it

For this assignment work in you own database. The name of your database will be posted in connex.

- Create a table $Parts$ with the following schema:

  ```
  parts(pid integer, pname varchar(40), color varchar(20));
  ```

  Add some data to the table.

- Create a table called *partshistory* with exactly the same schema as the original table, plus three columns called:

  1. *operation* with type CHAR,
  2. *opwhen*, with type TIMESTAMP,
  3. *opuser*, with type CHAR(20).

- Create a TRIGGER that, whenever a record is added, updated or deleted from the $parts$ table, it makes a copy of that record into the table $parthistory$, and sets its *Operation* field to "U", "D", "I" (Updated, Deleted, Inserted, respectively), sets the field *When* to the current time, and the user name to the current user.

Use the Postgresql Programmer's Guide. Make sure you use the one corresponding to the version of the DBMS we are using (9.3). The postgres documentation contains exactly the information you need to complete this assignment.

What to submit

Submit the output of the command `\d parts and \d partshistory` and a printout of your trigger. Submit an electronic copy of your assignment via connex in a simple text file (no word, pdf or any other formats, please).