CSE 581

**Project 3**

**Your task:**

You will continue working with the tables you created in project 2 in CSE581Projects database.

Create 4 *Stored Procedures* which can be executed by database role “Graders” (GRANT EXECUTE ON SCHEMA::[yourSchema] TO Graders;) :

* SP to use cursor(s)
* SP to update data in a table (perform validation)
* SP to delete data from a table
* (5% bonus point) 1 SP of your own choice, performing a business action[[1]](#footnote-1).

Create 1 *Function* which can be executed by “Graders”. Not the function you did for the lab.

You will also *create a view* (named as “Benefits”) which can be viewed by “Graders” (GRANT SELECT ON SCHEMA::[yourSchema] TO Graders;) that shows every employee’s name, ID, benefit’s type, benefit coverage, employee premium and employer premium.

Your deliverables will be:

* scripts used to create all of the DB objects described above; each object needs a **short** explanation as to its purpose or goal (i.e. “This SP does this, that and the other thing..”)
* screenshots demonstrating that the SPs work as expected (including valid/invalid inputs). Refer to our SP lab for more details.
* a text file with SELECTS against your views, EXECUTE against your function & stored procedures

**Requirements:**

1. You **shall** create 1 view.
2. You **shall** create 4 stored procedures.
3. You **shall** create 1 function.
4. You **shall** submit all of your SQL code, used to create the DB objects (view, SPs and function).
5. You **shall** submit a short (a single sentence) explanation of what the purpose of each of the DB objects is.
6. You **shall** execute all of the SPs/function (provide screenshots of execution the way you did in the previous labs (SP & function labs)).
7. You **shall** submit a text file that will run SELECTs against of your view and execution of your SPs and function.

1. You will get 5% bonus if this is a valid action within the scope of the business problem, and the SP is reasonably complex. In other words, a 4 line single-table select SP will get you nothing. [↑](#footnote-ref-1)