CSCI 3410 Databases – Lab 3 Stored Procedures and Triggers

You will be creating an audit procedure to log all inserts into the UserRoles table of a system that must keep track of all changes made to their access control. You will create a stored procedure to update the UserRoles table and a trigger that will automatically update necessary meta data about who, when, and what was altered.

1. Log into the “Labs” database using your SQL account
2. Open the “Lab 3 Code.sql” file in D2L in SQL Management Studio
3. Change the word CHANGEME to your schema using find and replace
4. Run the sql script to create the tables and add two default records in UserAccounts and Roles
5. Create a stored procedure that inserts a record into UserRoles and must have the following parameters:
   1. RoleId (int)
   2. UserAccountId (int)
   3. InsertedBy (nvarchar(30))
6. Create an AFTER INSERT trigger on the UserRoles table that automatically logs the required information in Audit\_UserRoles
7. Test an insert into UserRoles by linking the admin user to the Administrators role and jdoe user to the Users role. You must use the UserRoleCreatedBy field in the inserted table to populate the InsertedBy field in Audit\_UserRoles.