

## **Programming Assignment 2**

- **New Due Date: 12/12/2013 at the end of the lecture.**
- **Submission:** You are required to submit a printed paper copy of a session which shows everything that you saw on your screen.
- You need to copy your code and the response, and write it a text file, print and hand in at the end of the lecture.

### **Task1: Run sql queries to MySql from a programming language**

The objective of this assignment is to practice how to connect to MySql from a programming language, e.g., Java, C/C++, C#..., and how to send sql queries to be executed at MySql site then receive the results.

- 1- Select your preferred programming language (no restrictions, no help).
- 2- Write the code required to connect to MySql
- 3- Write the code to execute the following queries, (similar to previous sql queries in Programming assignment 1)

#### **Query 1**

```
SELECT S.snum, S.sname
```

```
FROM Student S , Enrolled E
```

```
WHERE S.snum = E.snum AND E.cname = 'CSCI 4707'
```

**Query 2**

```
SELECT COUNT(S.snum), E.cname  
FROM Student S, Enrolled E  
WHERE S.snum=E.snum  
GROUP BY E.cname;
```

4- Copy both the code and response to your answer sheet.

**Task2: Trigger**

- 1- Create trigger on student table to be automatically executed after an update occurs on the table. The function of this trigger is to add 1 to the student's age if its id is updated. It can be written directly to MySQL.
- 2- Execute an update query on student table to update one student id from your programming language.
- 3- Copy your trigger code, your programming code for executing the update query, and the response of execution to your answer sheet.

Hint1: It is better to use a Linux machine in a CSE lab.