CSC343 Worksheet 7 Solution

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1. **<u>Notes:</u>**

   - EXEC SQL
     - Allows to use SQL statements within a host-language program
   - The DECLARE Section
     - is used to declare shared variables
     - **Syntax:**
       EXEC SQL BEGIN DECLARE SECTION;
       ... // Variable declarations in any language
       EXEC SQL END DECLARE SECTION;

       <u>Example:</u>

```
1    void getStudio () {
2        EXEC SQL BEGIN DECLARE SECTION ;
3            char studioName [50] , studioAddr [256]; // <- c
    variables
4            char SQLSTATE [6];
5        EXEC SQL END DECLARE SECTION ;
6
7        EXEC SQL INSERT INTO Studio(name , address)
8                VALUES (: studioName , : studioAddr );
9    }
10
```

   - Cursors
     - Is the most versatile way to connect SQL queries
     - **Syntax:**
       EXEC SQL DECLARE < cursor name > CURSOR FOR < query >

       EXEC SQL OPEN < cursor name >;
       ...
       EXEC SQL CLOSE < cursor name >;