COMP 3311: Database Management Systems

Task 3: Information System Implementation

Assigned: <u>July 26, 2022</u>   Value: 10% of course grade
Due: <u>11:00 p.m.</u>, August 6, 2022

In this task you are to submit a C# code file that completes an information system for the movie streaming management system.

IMPORTANT REMINDER

This is an individual task. The C# code file that you submit should be *your own work*. While you may discuss general task issues with other students, you are not allowed to collaborate with others to come up with a common solution, to share solutions or to copy someone else's solution. Copying, sharing and collaborating will be severely penalized. All those involved in a copying/sharing/collaborating case will automatically receive a grade of 0 and may be reported for further disciplinary action.

INFORMATION SYSTEM IMPLEMENTATION

The information system implementation for the requirements listed below are provided to you as a Visual Studio website. Your task is to write the SQL statements that will populate the webpages with the required data from the Oracle database for the movie streaming management system.

For everyone

1. Display the most watched movies.
2. Create a Reelflics account.

For Reelflics members

1. Search for movie, cast member and director information.
2. Display movie, cast member and director information.
3. Add and remove movies from a watchlist.
4. Submit and modify reviews for movies.
5. Display the watch history.
6. Display and update personal information.

For employees

1. Add and modify movie, cast member and director information.
2. Add and modify academy awards won by movies, cast members and directors.
3. Generate member information, movie viewing and membership statistics reports.

IMPORTANT NOTE

You are allowed to use only SQL constructs that have been discussed in the lectures, tutorials or labs. If SQL constructs that have not been discussed in the lectures, tutorials or labs are used in a query, then no marks will be given for that query.

Do not use PL/SQL procedures or functions; use SQL statements only.

HOW TO GET AND USE THE WEBSITE

Download the folder Task3.zip from the Task 3 Setup entry of the Lab Schedule course web page and unzip it. Inside the Task3 folder you will find two items.

1. The sql script file Task3DB.sql, which contains the schema and a sample database to be used for testing your Task 3 SQL statements. You should execute this file in SQL Developer.
2. The Visual Studio website ReelflicsWebsite, which contains the web forms and the ReelflicsDBAccess.cs C# code file containing 42 TODOs. To use the website with your Oracle account you need to do the following after opening the website in Visual Studio.

1. From the Solution Explorer, open the Web.config file.
2. Find the line <add name="ReelflicsConnectionString …".
3. On this line, find

    ID=comp3311stuXXX;Password=XXXXXXXX

    and replace

    comp3311stuXXX with *your Oracle user name*

    XXXXXXXX with *your Oracle password*
4. Save and close the Web.config file.
5. Run the website.

WHAT TO SUBMIT

Submit the ReelflicsDBAccess.cs file inside the App_Code folder containing your SQL statements that populate the web pages with the required data from the Oracle database. Be sure that you have included your name and student number in the comment at the top of the file.

<mark>Note:</mark> *There will be a 5% marks deduction if your submission is missing your name and student number!*

HOW TO SUBMIT YOUR WEB SITE FOLDER

<u>By 11:00 p.m. on Saturday, August 6</u>, upload your ReelflicsDBAccess.cs file to Canvas by selecting *Task 3* in the Assignments section of Canvas, and then selecting the Submit Assignment button. To check your submission, select the Submission Details button. For help, select the Help button.

It is your responsibility to ensure that your ReelflicsDBAccess.cs **file is correctly uploaded to Canvas.** <u>Under no circumstances</u> **will late submission or submission by email be accepted.**

GRADING

Your ReelflicsDBAccess.cs file will be tested in Visual Studio using the ReelflicsWebsite.

<mark>*** Your SQL statements will only be evaluated on a pass/fail basis. ***</mark>

That is, for each TODO, your SQL statement either returns the correct result or performs the correct action via the website or it fails to do so. Your SQL statement <u>will not</u> be evaluated as to "how close" it is to a correct solution. Therefore, you need to ensure that you have tested your SQL statement using the website and not only in SQL Developer.

CLARIFICATION AND AMENDMENT OF PROJECT/TASK REQUIREMENTS

You can ask clarification questions regarding the requirements for Task 3. *All questions should be submitted to the teaching team by email at 3311rep@cse.ust.hk.* In addition to being answered individually, if appropriate, a submitted question and its reply will be posted on the *Project Q&A* course webpage for Task 3, which can be accessed from the *Task Q&A* section of the *Project Information* course webpage. *You should check this webpage on a regular basis for further clarification and amendment of project requirements.* Any requirements added or amended in a *Project Q&A* webpage will become part of the project requirements.