IST659

Project Final Report Guidelines

**Due Dates:**

1. **The Final report is due by December 12th**
   1. Post your project title and summary to the “Project Final Report” thread in BlackBoard Discussion Forum with the entire report in the attachment.
   2. You will have chance to improve your project based on the comments you will receive during your project demo.

In the project planning and design reports you have chosen a data management problem, proposed a solution, gathered database requirements, and designed a fully-attributed relational data model. Now you need to move on to implement this relational database.

Your deliverable for this phrase is the project implementation report using the following template.

**Section I**: title page

This page should include your name and the title of your project.

**Section II**: a one-page project summary (0.5 point)

This is a revised version of the summary in your project design report. Please revise according to the suggestions provided by the instructor and fellow students.

**Section III**: entity and attribute glossary and relational data model in both ACCESS (Relationship Diagram) AND ERD in Visio (2 point)

This is a revised version of the glossary table and ERD in your project design report. Your glossary should include explain the meaning of each entity, attribute, **and relationship between entities, including the real-world meaning of the degree and cardinality**. Include an example for each entity, attribute, or relationship if it is beyond comprehension based on common knowledge. In other words, all jargons you use in your report should be explained in this glossary.

**Section IV**: SQL script for creating tables and inserting sample data. (2 points)

In this section please copy and paste the SQL script you used to create the tables and insert the sample data. Please refer to the instructor’s sample script as example. Your readers should be able to re-create and populate the database using this script. Add comments generously.

**Section V**: **SQL statements for answering major data questions using reports**. **Required to have at least one Data Question with Aggregate Functions** (2 points)

In this section please list all major data questions that your database users will ask, explain why they are the most important data questions for your database users, and provide the SQL statements to answer these questions. **Display the Reports that display the major Data Questions**. Your data questions should include some business intelligence questions. For complex queries, please add comments to explain how you come up with the solution. Include screen copy of the selected result. The screen copies and comments will help the instructor do the troubleshooting in case of errors in the statements. You should include some queries that use aggregation and categorization functions to demonstrate your ability in using them. You may also create views to store the queries and use them to create reports.

Some data operations may require more than one SQL statement. Don’t forget to create transactions in these cases.

**Section VI**: Interfaces (1 points)

Create forms (with at least one combo box) and reports for users to perform data input and output easily. Include the screen copy of all forms and reports. Add captions to explain the purpose of each form or report. You should generate reports for the major data questions in Section VI.

**Section VII**: Trigger (0.5 point)

Create a trigger and some transaction process. Show the original code, explain the logic, and attach the results after executing the code.