COP 4710 – Database Systems – Fall 2012

Term Project - Phase Four – Implementation

Due November 29, 2012

Phase 4

In this phase of the project you will implement your database within the MySQL RDMS. You can also implement your database on any other database management system with which I am familiar…check with me first before using any DBMS other than MySQL, SQL Server, or Oracle systems.

Put all of your table definition statements in a well commented script file. Implement any and all constraints that you identified for your schemas.

Once you have created your database, create a second commented script file which populates the database. Several of you have created databases which are modeled on situations that you encounter in your jobs. The actual data that you populate the database does not need to be "live" data from an actual enterprise; however it should closely simulate the real situation. In other words, don't put actual client data into the database as often ownership of this data can be an issue. For example, change the names of customers or clients to something other than their real values. Don't go overboard in populating the database, but don't be skimpy with the data either. The relative sizes of the relation instances should accurately mirror those you would expect in a complete working version of your database.

Once the database is created and populated. Generate a third well-commented script file that contains an assortment of queries and update operations that you would expect to see for your enterprise. For our purposes here, you do not need to generate input/output forms or reports. Raw queries and updates with normal MySQL returns are all that are required. [If you ultimately plan on using your database in a commercial or personal setting; you will probably want to develop a GUI front-end for your database. This is fairly easily done in Java and/or PHP. If anyone is interested in doing this, I can show you some of what you would need to do to continue this development, but it goes a bit beyond what we'll do in this course.]

The deliverables for this assignment include:

1. Database creation script file.
2. Database population script file.
3. Query/Update script file.
4. Screen shots of the schemas of all of the relations in your database.
5. Screen shots of all of the populated relations in your database (don't need to show all rows.)
6. Screen shots of the execution of your queries/updates.
7. Brief description of any issues you had to resolve in your design to complete the implementation (don't include this here, but save it for the final report.)