**CISC 401 Database Design**

**Assignment 4**

**Database Design and Administration**

**Group Project**

***Scenario: You are competing for a contract to design, build, and perhaps even maintain a database for a potential customer***.

In groups of 4 to 5 persons, students will form a “start-up company.” Provide the following company information:

Company Name:

List of Employees:

Provide a description of a client company (or person(s)) customer, their information management domain, and how your database solution will positively impact your client.

Assume the existence of a legacy database system. Describe how you plan to analyze and capture the important data and functionality the pre-existing system. Provide an initial draft of a design using relationship, table, field, and business rule specifications, with specification forms and UML diagrams. Provide an initial draft of database prototype, populated with at least three example entries for each table in the database. In the context of your database implementation, demonstrate at least one query showing the operation of your database.

Your design approach must support the assessment of compliance with regulatory requirements. Your database system must integrate data correction, audit logs, and authorization and authentication paired with electronic signatures. Additionally, your system must generate one or more administrative reports that provide summary performance statistics.

Submit a 10 to 15 page paper, in MLA format and with references, that documents how your group addressed the issues delineated above. Your group will conduct a one-half hour presentation of your group paper. Be sure to include your UML diagrams, along with an explanation of how you are supporting data integrity and consistency. Discuss the business rules that you will employ.

Each individual presentation will account for 10% of that individual’s group project grade. The remaining 90% of the grade will be based upon the group performance as a whole.