**Group Project Description and Rubric**

You are assigned to a group of 4 students to conduct a database project during the semester. Each group is to identify a real-world database development project. You are required to analyze, design, and implement a prototype database system using MySQL for your identified project. The subject could be an organization that you are employed with or an organization you are observing. Contacts with a representative from the particular organization are encouraged but not required.

**If the students did not participate in any parts of the group project, they will receive a 0 for the final group project grade!**

The deliverables of the project are (TOTAL SCORE: 100 pts):

1. mid-term presentation (5 pts)
2. final presentation(60pts)
3. project report (30 pts)
4. individual team member rating (5 pts)
5. A mid-term presentation to the instructor (5 pts)
6. A general description or the introduction of the company where the group project is being conducted, which includes: business goals of the company and products/services provided by the company etc. (1 pt)
7. Identify and report user requirements for your group project (1 pt)
8. (Conceptual Data Modeling) Draw a basic Entity-relationship diagram based on user requirements described in item b (3 pts)
9. Final presentation and code demonstration (power point or equivalent).Each group is given **10 min.** to present your project to the class and demonstrate your database implementation. One or two representatives from each group must present. Must contain the following: (60 pts)
   1. **A General description** or a introduction of the company where the group project is being conducted, which includes: business goals of the company and products/services provided by the company etc. (2 pts)
   2. Identify and report **user requirements** for your group project. (8 pts)
   3. **(Conceptual Data Modeling)** Draw Entity-relationship diagram based on user requirements described in item 2 (20 pts).
   4. **(Logical Database Design)** Convert Entity-relationship data (ERD) model into a relational data model (10 pts).
   5. **(Implementation in MySQL)** Implement relations in the relational data model developed in item 4 by using DDL and DML in MySQL. Populate sample data into these tables (20 pts): (1). Tables, columns, keys, etc. with at least 20 rows of data per table. (10 pts); (2). 5 SQL Queries inclusive of at least 3 JOINs; (5 pts); (3). 2 Views and 2 Stored procedures. (5 pts)
10. A project report documents the process and the results of your group project. The report should have at least the following: (30 pts)
    1. **General description** (1 pts)
    2. **User requirements** (4 pts)
    3. **Conceptual Data Modeling** (10 pts)
    4. **Logical Database Design** (5 pts)
    5. **Implementation in MySQL** (10 pts)
11. Individual team member (5 pts)