**Project Requirements**

Your team will be expected to deliver the followings on the due date of the project phase. Please retain the marked-up deliverables from phase 1 and re-submit them at phase 2 so I can be cognizant of revisions made.

1. **Phase 1 (can be hand-written)**

Entity-Relationship Diagram. Use the entity-relationship diagram to identify the entities, relationships and attributes of the new system that your team developed.

1. **Phase 2 (all diagrams, reports, etc must be computer-generated)**

Detailed requirements for your phase 2 can be found below.

Phase 2 Write-up Guideline

1. A cover page listing all members, a table of content and a copy of team contract need to be included. Early works (e.g., initial ERD) go to appendix.
2. Client interview report (if applicable)
   1. When did you meet with the contact person and who was present. How long was your discussion?
   2. Questions asked and answers received
   3. Assumptions you made to design the database
3. ERD. Both the initial ERD (put it in the appendix) and the final ERD need to be included. The initial works may go to the appendix. Also, please discuss the following
   1. What is an ERD?
   2. How does the initial ERD differ from the final ERD?
4. Logical Model.
   1. The logical model converted from your ERD
5. Discuss the following about referential integrity constraints
   1. What are referential integrity constraints?
   2. Why are they needed?
   3. How did you implement these constraints in your database solution?
6. Implementation
   1. Implementation issues and suggestions for addressing them – what did you struggle with the most while implementing your database.
   2. Technology issues (strengths and limitations) that you discovered during the project. Discuss Visio, Oracle and any other tool you used.
7. The syntax used to create your database and populate with sample data (Put this in an appendix)
   1. You need to make up your own sample data to populate your database. It is your responsibility to ensure that your sample data demonstrates all essential qualities that you need to answer the query questions in the case, e.g., payments made using different methods.
8. SQL to querying capabilities requested in case description
   1. Include questions, SQL statements, and output (using screen shot)
9. Lessons learned
   1. Each team member will write a short statement (1 paragraph approximately 5-10 lines long) about his/her lessons learned
   2. Address team functioning and communication as a team (no individual statements needed here).
   3. How did you (or not) adhere to the contract you created at the beginning of the semester.
   4. Include any other area that you find important.
10. User manual
    1. Show how to open the database
    2. Show how to enter data
    3. Show how to get data out – e.g., answer questions that a business might have using SQL
11. Other evaluation criteria:
    1. Professional write-up – not just staple pages together
    2. Table of contents, appendixes (e.g., your group contract)
    3. Proper heading and numbering

**Additional Suggestions and Requirements**

1. I reserve the right to amend the project requirements.
2. **Get started early**! You cannot design this at the last minute; things will not come together simply because there’s only a day or two left before the due date.
3. Make frequent back-ups of electronic documents.
4. Please be sure to keep the original documents from earlier phases with each subsequent submission: do NOT discard them.
5. This is not a structured problem. Neither is system design and development. It is supposed to be somewhat fuzzy.