Project Stage : Design

Project Title : Logical Database Design and Physical Database Design

Deadline : 05 February 2010

1. **LOGICAL DATABASE DESIGN**

1.1 **FINAL INPUT SCREENS AND FINAL OUTPUT REPORTS/SCREENS**

Please make sure that there is a way to enter all the data needed in your database and that it is contained in one of your input screens. (Use screen layout form)

Also, make sure that the information in your outputs comes from or can be determined from the data in your database. (Use report layout form for reports)

1.2 **FINAL ERD**

Show final conceptual model from previous project, include any revisions. Make sure your attribute names are descriptive. (Use underscores as needed)

1.3 **FINAL DATA DICTIONARY**

Include any revisions or additional fields.

1.4 **TRANSFORMATION OF ERDs to NORMALIZED RELATIONS**

Transform your ERDs to normalized relations.

In the normalization part, identify the normal forms and how you transformed it (by showing functional dependencies & how you removed these dependencies). Normalize to 3NF. Show any other steps you went through.

**FINAL NORMALIZED TABLES**

Underline primary keys, and show foreign keys with dashed underlines.

1. **PHYSICAL DATABASE DESIGN**

2.1 **INDEXES**

Define the index scheme that you will use. Identify indexes you will need based on the normalized tables and the requirements of the system that you are developing.

2.5 **INTEGRITY CONSTRAINTS**

Determine the referential integrity constraints of your database systems.

Show affected tables and describe how you will enforce referential integrity for each.

2.2 **TRANSACTION MAP**

Identify at least 3 of the most common transactions in the business and create the transaction map for each. Make sure to give estimates of the volume of entries.

**Presentation and Neatness, etc**.

Note: Previous rules and guidelines (as provided by the first project) still follow (i.e. penalties for late work, 2 copies of work, short white bond, minimum 12 pt. Garamond or Times New Roman, graphics software for charting, etc.)