CS 631 - Project
Deliverable 2

Requirements

Phase 2 Deliverable must contain the goal of this phase of the project, and a logical design of the database (resulting by the mapping of an EER schema to a Relational schema). It must describe any revisions made to the specification described in Phase 1 Deliverable. It must further describe the problems encountered in Phase 2 and justify the solutions.

For Phases 2 and 3, you will not be responsible for designing/implementing code for functions that are outside of the domain of the City Library. For instance, the following areas constitute functions that are not part of the front-end system:
– Orders of documents from the publishers
– Processing of orders at the publisher's location
– Generating/processing orders

What is expected:

1. Outline the goals for this phase and briefly mention any revisions made to the previous phase. If you have modified your EER diagram, turn in the modified copy.

2. EER to Relational mapping:

   – Illustrate how you translated from the EER diagram to your relational schema. It should follow the EER to relational algorithm.

   – Primary keys and foreign keys should be correctly identified on the relational database schema.

   – Show (in words) other keys.

   – Show constraints (in words) over and above referential integrity constraints for each table. E.g., "a reader cannot borrow more than 10 documents" is a constraint on the BORROWS table and must be checked before a document is lent to a reader.

3. Identify any difficulties you may have had with this phase of the project.