CECS 323 LAB LIBRARY BOOKS

OBJECTIVE: Model our first many to many relationship.

INTRODUCTION: The local library wants to automate their antiquated card catalog system. The information that they have is:

- Publishers: Publisher name, address, phone.
- Author: Author name, current address.
- Catalog Item: Book title, publisher, genre, year published. For this
 exercise, let us assume that a given catalog item has one and only one
 publisher.
- Authorship: Priority of the author, role that the author played.
 - A given book can have more than one author, and, of course, a given author will often write many books.
 - Within the group of authors for a given book, one will be the primary, another the secondary, and so forth.
 - An author might have a role that they play. Some examples would be: chief researcher, illustrator, editor, tour planner.
 - A given author can fulfil more than one role on a given book, and a given role could apply to several authors within a given book.

PROCEDURE:

- 1. Model the above business rules in a UML class model.
 - a. Be careful about any alternate keys for the authorship.
- 2. Build the relation scheme diagram for the UML model.
- 3. Build the tables and populate them with data about three of your textbooks.
- 4. Write and execute a SQL query that joins all of your tables together.

WHAT TO TURN IN:

- Your UML diagram.
- Your Relation Scheme diagram.
- The DDL for your tables.
- The SQL for your join statement.
- The output from running your join statement.
- Your team's Collaboration document. You can find the template for that document on BeachBoard | Content | Student Helps | Lab Collaboration Document.