WDP — E-R Model Assignment 3

1. Recall the planning stage of the SDLC. Do some planning for your project! I don't need to see this, but jot down your ideas, entities you may need, attributes needed for each, simple data model, etc. It's a good idea to do this with just paper and pen first.

2. Determine the **entities** needed for your project. Determine the attributes and relationships.

3. Create business rules for each of your relationships. Remember, there should be **two** business rules for each relationship; one for each direction from one entity to the other. Follow the general guideline below:
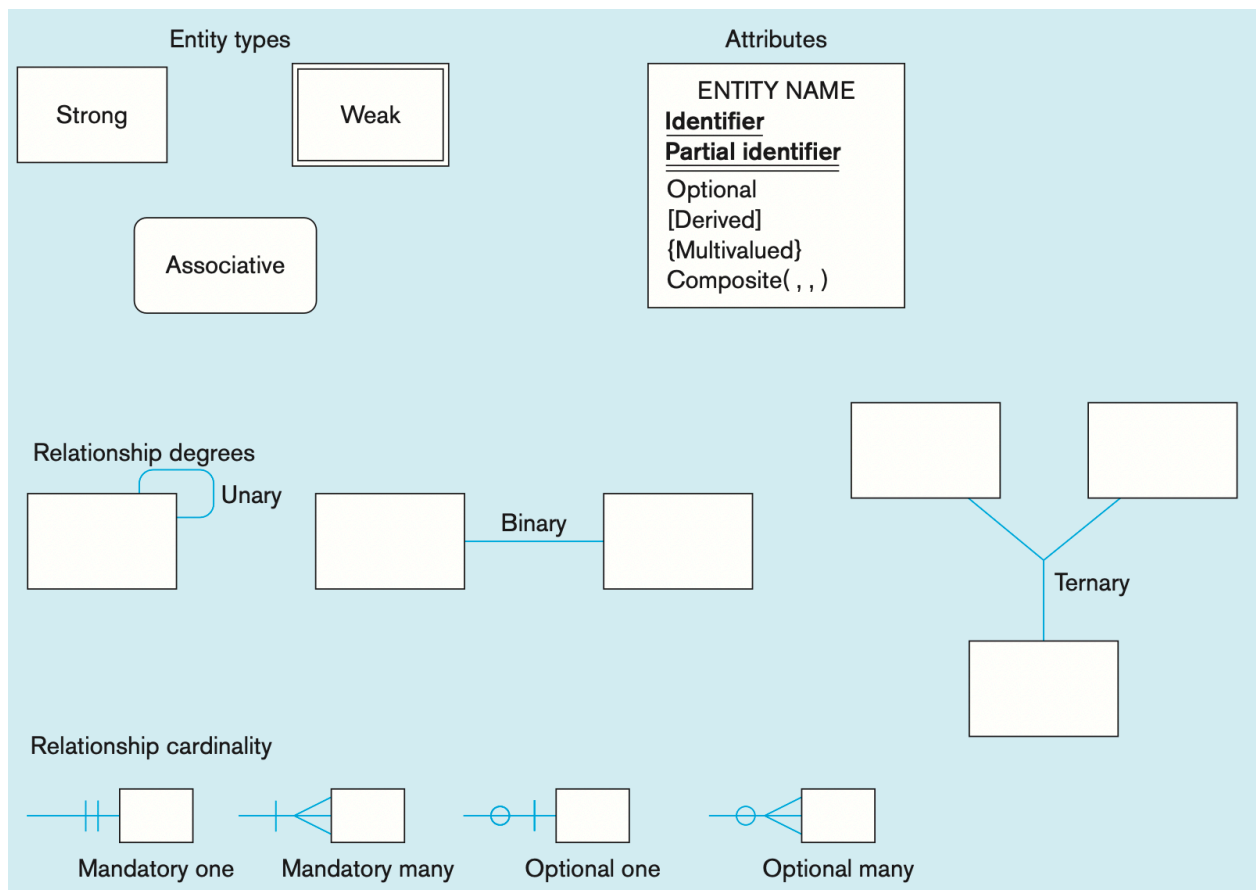

<entity> <minimum cardinality> <relationship> <maximum cardinality> <entity>

For example, rule 5 is

<CUSTOMER> <may> <Submit> <any number> <ORDER>

A CUSTOMER may submit any number of ORDERs. However, each ORDER must be submitted by exactly one CUSTOMER.

4. Create a complete E-R Model with attributes and relationship cardinalities. Include the relation. You must use a data modeling tool, such as Visio, Lucid Chart, draw.io, etc. I don't want anything hand written for this part. Be sure to use the proper ER Notation below:

Entity types

Strong

Weak

Associative

Attributes

ENTITY NAME
Identifier
Partial identifier
Optional
[Derived]
{Multivalued}
Composite(, ,)

Relationship degrees

Unary

Binary

Ternary

Relationship cardinality

Mandatory one   Mandatory many   Optional one   Optional many

Git/GitHub:

5. Download Git and create an account at https://github.com/. Initialize a git repo in your project folder. Connect your git repo to GitHub. Moving forward, all changes and updates to your project should be uploaded to GitHub since this is how I will be grading your work. See the *Git and GitHub* lecture under **Module 3** for step-by-step instructions.

6. You need to submit two things for this project:

    a. Submit your business rules and complete E-R Model as PDF files. If you want to have both in a zip file that you submit, that is fine. As long as they are PDF files, I don't care.

    b. The link to your GitHub.