

**REVIEWER 1 NAME:** \_\_\_\_\_

**REVIEWER 2 NAME:** \_\_\_\_\_

**WHOSE SUB-MILESTONE 2:** \_\_\_\_\_

## **CS 325 - Model Sub-milestone 2 Reviews - 2016-10-05**

- Today's lab exercise is reviewing project model sub-milestone 2 -- your grade will be based on your reviews.
- The purposes of these reviews include:
  - getting some experience reading database models
  - hopefully giving you each some useful feedback to use to improve your project database model
- Working in pairs, for each model draft, study it, and fill out a copy of this review form.
- You are encouraged to make notes on the model copy as well as on this review form.
- You will get a certain amount of time per model, and you are expected to fill out as much of the form as you can.
  - If you finish the form before the time is up, help another pair with their review.

### **NOTE:**

- **CONSTRUCTIVE, THOUGHTFUL COMMENTS ARE EXPECTED.** REMEMBER that your comments will be given to the model creator.
  - If I notice or hear of any that are inappropriate, your lab exercise grade will be affected, and your project model sub-milestone 2 grade may be affected as well.
  - The model creator will receive comments to help them to revise/improve their project model draft, but I will not have had a chance to check these for correctness; please keep this in mind.
- (Using this form to perform a self-review of your model would be a good idea, as well.)
- \* does model include:
  - \* ...**entity classes**? (circle one): **YES**      **NO**
    - \* do any look like they are really **attributes**, rather than true entity classes?
    - \* do any look like **instances** of an entity, rather than a true entity class?
    - \* do any look like **single** items rather than entity classes?

- \* does it look like **supertype/subtype** situations have perhaps been overlooked?
- \* are there any obvious entity classes **missing**?
- \* are there **at least 5 significantly-different entity classes** (remembering that a supertype and all of its subtypes count as 1 entity in this particular count)?  
(circle one):    **YES**        **NO**
- \* do you have any other comments related to the **entity classes** depicted within this model?
- \* **...relationships?**                      (circle one):    **YES**        **NO**
- \* do the relationships use the required course **notation** (a line connecting the related attributes, with a **diamond** on that line, and there is a descriptive **name** for that relationship on or near the diamond)?  
(circle one):    **YES**        **NO**
- \* are the relationship names mostly **unique**?
- \* are the relationship names reasonably **descriptive**?
- \* do any of the relationships here look **unnecessary** (they should really be **implied** by other relationships instead)?
- \* do the relationships shown involve **appropriate** entity classes?
- \* do any significant relationships seem to be **missing**?
- \* are there at least **four** reasonable relationships? (circle one):    **YES**        **NO**
- \* do you have any other comments related to the **relationships** depicted within this model?

- \* **...maximum cardinalities?** (circle one): **YES NO**
  - \* do these use the required course **notation** (a 1, M, or N near **each** relationship line connecting to an entity)?  
(circle one): **YES NO**
  - \* are they included on **both** ends for **every** relationship?
  - \* for each relationship -- do the cardinality constraints seem to be on the "**correct**" end, or do they seem to be reversed?
  - \* for each relationship -- do the cardinality constraints seem **reasonable**? (if in doubt, suggest business rules that would make them reasonable)
  - \* is there at least one reasonable **1:N** relationship depicted? (circle one): **YES NO**
  - \* is there at least one reasonable **M:N** relationship depicted? (circle one): **YES NO**
  - \* do you have any other comments about this model's **maximum** cardinalities?
  
- \* **...minimum cardinalities?** (circle one): **YES NO**
  - \* do these use the required course **notation** (an oval on the relationship line near the entity class if a relationship is **optional** for that entity class, and a hash on the relationship line near the entity class if a relationship is **mandatory** for that entity class)?  
(circle one): **YES NO**
  - \* are they included on **both** ends for **every** relationship?
  - \* for each relationship -- do the minimum cardinalities seem to be on the "**correct**" end, or do they seem to be reversed?
  - \* for each relationship -- do the minimum cardinalities seem **reasonable**? (if in doubt, suggest business rules that would make them reasonable)
  - \* do you have any other comments about this model's **minimum** cardinalities?

- \* ...entity attribute lists? (circle one): **YES** **NO**
  - \* are these given in **tabular** form(entity class name, with the attributes for that entity **underneath**)?  
(circle one): **YES** **NO**
  - \* is at least one attribute **multivalued** (has an **(MV)** after its name)? (project requirement)  
(circle one): **YES** **NO**
  - \* does it seem reasonable that the multivalued attribute(s) be multivalued?
  - \* are attributes included for every entity class (except, perhaps, for subtype entity classes included for the sake of relationships)?
  - \* are identifying attributes indicated on **most** of the lists? (remember, there are some entities -- for example, subtype entities, some association entities, and some weak entities -- for which identifying attributes are **not** applicable)
  - \* are any relationship-related attributes included? (Remember, these lists are only showing **non-relationship-related attributes** of each entity. Entities are **not** tables, and they do **not** have foreign keys.)
  - \* do the attribute lists seem to show signs of any "**missed**"/**buried relationships**?
  - \* do the attribute lists seem to show signs of any "**missed**"/**buried entity classes**?
  - \* do the attribute lists seem to show signs of any "**missed**"/**buried supertype/subtypes**?
  - \* for each entity -- do the given attributes seem reasonable?
  - \* do you have any other comments related to the **entity attribute lists** depicted within this model?
- \* Do you have **any other comments** that you would like to make about this model?