

Phase 1: Database Design (30% of the overall project, 30 pts):

Phase I Grading

The grading rubric for phase I is:

- (1) Category I: 15% self and peer evaluation*
- (2) Category II: 15% from the summative report from each individual member**
- (3) Category III: 70% final group report ***

*: Each team member will turn in the evaluation under their own account on webCT. Your score in this category will be based on the average score on the “Overall Team Evaluation” question from all team members.

**: Each team member will turn in their own summative report under their own account on webCT. Items to be included in the summative report include:

- (1) List of items that you contributed in this phase of the project
- (2) Evidence of your contribution, such as the draft that you worked out before group discussion

For phase I only: It is OK to claim that all items are collaboratively done and use the final group report as the summative individual report. But both group members must do so. If only one group member claim that everything is collaboratively done, and the other group member turn in his evidence of contribution separately, then the person who claimed that all work are collaboratively done will receive zero credit for this category.

***: A group needs to turn in only one report under any team member’s account on webCT. Details regarding the report can be found on the next page.

Phase I Team Report

In Phase 1 you will first work out the ER diagram and relational schema for the project. The deliverables of this phase are:

- (1) Each group finalized ERD and relational schema (including attribute domains, key, foreign keys, and constraints)
- (2) List of functional dependencies and normal forms
- (3) Justification for your design
- (4) Any additional assumptions that you made for the project (beyond what has been provided in the description)

Submit all items as one report to blackboard (one per group) by **Oct 23rd (Tuesday)**.

During Phase 1 you should also start making notes/plans on the design of your application (do not write out the application code, but you should have a draft design of how you will implement your system).

A template of phase1 report has been provided for your convenience.

For those of you who are interested in earning bonus points, make sure your design incorporates what you would need to implement those bonus features. For example, you can add in an application to allow admin to place batch orders to vendors, and you can also add in an application to allow admin check the received orders from the vendors. The bonus points will be credited to your group in the final stage (phase III).

Bonus features will be assessed on an individual basis. Check with the instructor if you are interested in doing any of the bonus parts. I strongly recommend you to finish the required component first in Phase II and Phase III.

If you are working on your own choice of project, you would need also to include in the report the following items:

- (1) A description of the project
- (2) A full description of data requirements
- (3) A full description of functional requirements
- (4) List of assumptions of your system
- (5) List of system statistics
- (6) List of application of the system