CSCE 156 – Assignment 4 Rubric

Name(s): _____   Total: _____/100

CSE Login: _____   Grader: _____

What needs to be turned in:

- Your design document (hardcopy) one week prior to this assignment being due
- Turn in your SQL files (`portfolioDB.sql, portfolioQueries.sql`) using webhandin
- Turn in this rubric (hardcopy) in class on the due date

Grading will be based on the following items.

1. Database Design Style

Items	Grader Notes	Points	Score
• Meaningful table and column names • Consistent naming conventions • Proper Indentation in your DDL files		10	
• Comments provided in the DDL files		5	
Subtotal		**15**	

2. Correctness & Database Design

Items	Grader Notes	Points	Score
• Correct file names • Instructions followed • SQL scripts execute on cse as specified		5	
Database is well-designed: • Primary and non-primary keys are properly defined • Column types make sense and properly model the problem • Data integrity is enforced by database definitions (nullity and key definitions) • Design allows for extensibility and flexibility • Design supports but does not restrict the business model		20	

Primary & Foreign Keys: • Keys are well-defined • Non-relational or external data are not used as internal keys • Foreign keys define a proper relationship between tables • Keys correspond to a sensible column type • Key names follow a good, consistent naming convention		10	
• DDL file properly inserts some non-trivial test case data		15	
• Each of the required queries in orderQueries.sql performs the operation(s) as specified		30	
Subtotal		**80**	

3. Misc & Bonus

Items	Grader Notes	Points	Score
Misc – If there are notable problems with your program not enumerated in this rubric, points may be deducted, otherwise full credit will be given.		5	
____Bonus: Database design prevents duplicate portfolio/asset and records		**(5)**	
____Bonus: Geographical data is normalized		**(5)**	
Subtotal		**5**	

Bonus/Honors Items

There are a couple of opportunities for bonus points. If you attempt any of the bonus point items and want them to be considered, check the items in the table above. Those enrolled in the **Honors section** of this course are *required* to complete all the bonus items; the total for this assignment will be adjusted appropriately. Bonus points will be awarded for the following items.

1. Some designs will allow "duplicate" records for the same portfolio/asset combination. This type of bad data may be prevented in-code or through some other mechanism. If your design your database so that such duplication is prevented it is worth bonus points.
2. If you *normalize* geographical data such that (for example) locations in the same state refer to only one state record, then it is worth bonus points. To receive full credit, at a minimum the state and country fields should be normalized (for cities and zip codes, the modeling becomes more complex as there is not a clear parent-child relationship).