

Self-Evaluation Rubric for the Module 8 Assignment

Self-evaluation supports an honest assessment of knowledge and skills about a module. You should apply the rubric to assess your performance so that you can learn from your mistakes. An error is an opportunity to correct a misunderstanding about a concept, problem statement, or software/language feature. Learning from mistakes is an important key to success. You should consider mistakes as an essential element of your learning process. If you doubt the importance of learning from mistakes, please search under “learning from mistakes” to read about the benefits of learning from mistakes.

Before using the grading rubric, each problem should meet basic requirements. Problems 1 to 4 should have an ERD using the Crow’s Foot notation drawn with either the ER Assistant or Visual Paradigm. The ER Assistant uses the Crow’s Foot notation in the course notes precisely. Visual Paradigm has some minor deviations from the Crow’s Foot notation in the course notes.

After complying with the basic requirements for each problem, you should submit your assignment and apply the grading rubric in Tables 1 to 4. For each problem, you should note each error following rubric elements and the solution provided in a separate document. Be honest in your assessment so that you learn from your mistakes. If you have major errors, you should rework the problem without seeing the solution and then reassess your revised solution. You should see improvement on your second attempt along with an understanding of your errors.

Table 1: Rubric for Self-Evaluation of Problem 1

Rubric Element	Error Type	Comments
Entity types	Major	Two entity types (one for client and one for lab test). Should not have extra entity types
Relationships	Major	A 1-M relationship with the crow’s foot symbol near the entity type for lab test; The relationship line should indicate a regular relationship, not an identifying relationship.
Relationship names	Minor	An appropriate relationship name preferably an active verb
Minimum cardinalities	Medium	Minimum cardinality of 1 so that a lab test has one client. Minimum cardinality of 1 so that a client has at least one lab test.

Client attributes	Medium	Client entity type has all the required attributes with a PK.
Lab test attributes	Medium	Lab test entity type has all the required attributes with a PK.

Table 2: Rubric for Self-Evaluation of Problem 2

Rubric Element	Error Type	Comments
Entity types	Major	A new entity type for test type; Should not have extra entity types
Relationship	Major	1-M relationship to the entity type for a lab test. The crow's foot symbol should be near the entity type for a lab test.
Relationship name	Minor	An appropriate relationship name preferably an active verb.
Minimum cardinalities	Medium	Minimum cardinality of 0 is defined so that a test type can exist without a lab test. Minimum cardinality of 1 is defined so that a lab test must have only one test type.
Test type attributes	Medium	The new entity type for test type has all the required attributes with a PK.

Table 3: Rubric for Self-Evaluation of Problem 3

Rubric Element	Error Type	Comments
Entity types	Major	New entity types for test items and an associative entity type. Should not have extra entity types. Meaningful name for the new entity types
Relationship	Major	Two identifying 1-M relationships from entity types for test type and test items to the associative entity type. In the ER Assistant, an identifying relationship has a solid line. In Visual Paradigm, the associative entity type should have a combined primary key.
Relationship names	Minor	Meaningful relationship names for both relationships
Minimum cardinalities	Medium	Minimum cardinality of 1 for both relationships indicating that both relationships are required for the associative entity type
Test item attributes	Medium	The new entity type for test item has all the required attributes with a PK.
Associative entity type	Medium	The new associative entity type does not

attributes		have attributes.
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Table 4: Rubric for Self-Evaluation of Problem 4

Rubric Element	Error Type	Comments
ERD revision	Medium	Associative entity type and 2 identifying 1-M relationships are replaced with an M-N relationship. The ERD should be drawn using the ER Assistant because Visual Paradigm does not provide direct support M-N relationships except in conceptual models.
Relationship name	Medium	An appropriate relationship name is used for the M-N relationship.
Minimum cardinalities	Medium	Minimum cardinalities of 1 are defined for both sides of the M-N relationship.