CSC 276 Rubric Contract Grading: Data Models

The following rubric is used to assess the level of student learning in CSC 276 as it relates to creating entity-relationship diagrams (ERD), logical data models (LDM), and physical data models (PDM). See the class syllabus for details on how this rubric is used. For purposes of computing an assignment grade, any criteria deemed unacceptable shall have a numeric value of (50%). All criteria are weighted equally when averaging for an assignment grade.

Criteria	**Acceptable (C=75%)**	**Better (B=85%)**	**Best (A=100%)**
ERD, LDM and PDM modeling techniques	• Two or more notations are not valid (not part of the modeling technique). • Two or more notations not used properly.	• One notation is not valid (not part of the modeling technique). • One notation not used properly.	• All notations on a diagram come from same modeling technique. • All notations on a diagram are used properly based on the semantics of the modeling technique.
ERD	• Only entities and relationships are shown. • Three relationships missing its cardinality. • Subtle differences between the entities and relationships and the requirements.	• Same. • One or two relationships missing its cardinality. • Entities and relationships based on requirements.	• Same. • Each relationship has its cardinality specified. • Same.
LDM	• Missing attributes for one entity or relationship. • Two strong entities missing one or more key attributes. • Two weak entities missing one or more weak key attributes. • Three relationships missing its cardinality. • Subtle differences between the entities and relationships and the high-level ERD and requirements.	• All attributes are identified for each entity and relationship. • One strong entity missing one or more key attributes. • One weak entity missing one or more weak key attributes. • One or two relationships missing its cardinality. • Entities, relationships, and attributes based on the high-level ERD and the requirements.	• Same. • Each strong entity has one or more key attributes. • Each weak entity has one or more weak key attributes. • Each relationship has its cardinality specified. • Same.
PDM (XML file)	• No XML syntax errors. • Subtle differences between the XML and the LDM.	• Same. • Structure of XML logically similar to LDM.	• Same. • Same.