California State University
Northridge

IS 335: Information Technology in Business
Reading Preparation Assignment
Chapter 13
Enterprise Architecture Textbook

Read Chapter 13, "Information Modeling" of *Design of Enterprise Systems: Theory Architecture, and Methods*, pp. 307 – 319

Read the below questions and be prepared for class discussion based on those questions.

1. Identify and describe each of the three schemas.
2. Describe a benefit of the three-schema architecture.
3. What is the purpose of information modeling?
4. Define an entity and differentiate between an entity and the instance of an entity.
5. What is the difference between a data type and a domain?
6. In a university database, why would the student's name not be a good primary key?
7. What does the rule that a primary key cannot be null mean, and why do we need that rule?
8. Describe is the relationship between a foreign key and a primary key.
9. Explain the difference between an identifying relationship and a non-identifying relationship.
10. What is the purpose of introducing associative entities into a model?
11. Explain how semantics are embedded in the information model.