



# **Modern Systems Analysis and Design**

**Fifth Edition**

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## **Chapter 9**

### **Structuring System Data Requirements**

# Learning Objectives

- ✓ Concisely define each of the following key data modeling terms: entity type, attribute, multivalued attribute, relationship, degree, cardinality, business rule, associative entity, trigger, supertype, subtype.
- ✓ Draw an entity-relationship (E-R) diagram to represent common business situations.
- ✓ Explain the role of conceptual data modeling in the overall analysis and design of an information system.

# Learning Objectives (Cont.)

- ✓ Distinguish between unary, binary, and ternary relationships and give an example of each.
- ✓ Define four basic types of business rules in a conceptual data model.
- ✓ Relate data modeling to process and logic modeling as different views of describing an information system.