

Chapter 2 Modeling Data in the Organization

Chapter Overview

The purpose of this chapter is to present a detailed description of the entity-relationship model and the use of this tool within the context of conceptual data modeling. This chapter presents the basic entity-relationship (or E-R) model, while advanced features are presented in Chapter 3.

Chapter Objectives

Specific student learning objectives are included in the beginning of the chapter. *From an instructor's point of view, the objectives of this chapter are to:*

1. Emphasize the importance of understanding organizational data, and convince your students that unless they can represent data unambiguously in logical terms, they cannot implement a database that will effectively serve the needs of management.
2. Present the E-R model as a logical data model that can be used to capture the structure and much, although not all, of the semantics (or meaning) of data.
3. Apply E-R modeling concepts to several practical examples including the Pine Valley Furniture Company case.

Key Terms

Associative entity	Entity-relationship diagram (E-R diagram)	Relationship instance
Attribute	Entity-relationship model (E-R model)	Relationship type
Binary relationship	Fact	Required attribute
Business rule	Identifier	Simple (or atomic) attribute
Cardinality constraint	Identifying owner	Strong entity type
Composite attribute	Identifying relationship	Term
Composite identifier	Maximum cardinality	Ternary relationship
Degree	Minimum cardinality	Time stamp
Derived attribute	Multivalued attribute	Unary relationship
Entity	Optional attribute	Weak entity type
Entity instance		
Entity type		

Classroom Ideas

1. Review the major steps in the database development process (Figure 1-10) and highlight the importance of data modeling in determining the overall data requirements of information systems. Lead a discussion concerning who in the organization is typically most heavily involved in each of the steps and how end users may best participate in the process.
2. Introduce the concept of drawing models to represent information in a concise manner by having your students participate in a small active exercise in map-making. Divide the students into teams of 3-4 each so that you have an even number of teams in the class.

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