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Chapter 3
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Chapter 3 The Enhanced E-R Model and Business Rules

Chapter Overview

The purpose of this chapter is to present some important extensions to the E-R model described in Chapter 2 that are useful in capturing additional business meaning. In particular, we describe two types of extensions to the E-R model. First, the enhanced entity-relationship (EER) model includes constructs for supertype/subtype relationships. Second, the inclusion of new notation for business rules allows the designer to capture a broader range of constraints on the data model than were previously available.

Chapter Objectives

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

1. Introduce the concept of supertype/subtype relationships, and prepare the student to recognize when to use these relationships in data modeling.
2. Describe the use of specialization (top-down perspective) and generalization (bottom-up perspective) as complementary techniques for defining supertype/subtype relationships.
3. Introduce notation for specifying both completeness constraints and disjointness constraints when modeling supertype/subtype relationships.
4. Help students gain sufficient perspective so that they recognize when to use (and when not to use) supertype/subtype relationships in realistic business situations.
5. Discuss the basic premises of a business rules paradigm.
6. Discuss the universal data model and its use in packaged data models.

Key Terms

Attribute inheritance	Generalization	Subtype discriminators
Completeness constraint	Overlap rule	Supertype
Disjoint rule	Partial Specialization rule	Supertype/subtype hierarchy
Disjointness constraint	Specialization	Total specialization rule
Enhanced entity-relationship (EER) model	Subtype	Universal data model
Entity class		

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