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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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