

Chapter 5

Advanced Data Modeling

Chapter Focus

- The first part of the chapter covers the Extended Entity Relationship Model.
 - a. the use of entity super types and subtypes is presented.
 - b. specialization hierarchy example in Figure 5.2 is used to illustrate the main constructs.
 - c. the benefits of attribute inheritance and relationship inheritance are presented.
 - d. Remember that an entity supertype and an entity subtype are related in a 1:1 relationship.
 - e. Emphasis is put on the use of the subtype discriminator and the concept of overlapping and disjoint constraints in relation to entity subtypes is presented.
 - f. The completeness constraint indicates whether all entity supertypes must have at least one subtype.
 - g. the specialization and generalization hierarchies are explored.
 - h. Finally, the use of entity clusters as an alternative method to simplify crowded data models are explained.
- The second part of the chapter covers the importance of proper primary key selection.
 - a. It starts by clearly stating the function of a PK -- identification -- and how that function differs from the descriptive nature of the other attributes in an entity. The use of PKs to uniquely identify each entity instance is emphasized.
 - b. natural keys, primary keys, and surrogate keys are presented again.
 - c. the primary key guidelines that specify the PK characteristics. PKs must be unique, non-intelligent, they do not change over time, they are ideally composed of a single attribute, they are numeric, and they are security compliant.
 - d. Finally, a contrast between the use of surrogate and composite primary keys presented. Remember, composite primary keys are useful in composite entities where each primary key combination is allowed only once in the M:N relationship.
- The third part of the chapter covers four special design cases:
 - a. Implementing 1:1 relationships.
 - b. Maintaining the history of time-variant data.
 - c. Fan traps.
 - d. Redundant relationships.

Chapter Data Modeling

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