Object-Oriented Database Design

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Craft the Right Design Using UML

Whether building a relational, object-relational, or object-oriented database, database developers are increasingly relying on an object-oriented design approach as the best way to meet user needs and expectations. They require the database to be flexible enough to adapt to changing business needs and to incorporate new business processes and applications.

Object-Oriented Database Design concepts are essential to developing databases that are flexible enough to meet future needs. Since the first widespread use of object-oriented databases in the early 1980s, the technology has matured and become more powerful. Today, object-oriented databases are the preferred technology for database development.

Object-Oriented Database Design provides a comprehensive introduction to the design of object-oriented databases, with a focus on object Modeling and Design for Database Applications. This book focuses on recent developments in representational and processing aspects of complex data-intensive applications. Until recently, information systems have been designed around different business functions, such as accounts payable, human resource, sales, and inventory control. Mini-computers and mainframe computers have supported these business functions. The object-oriented approach provides a new way of thinking about the design and implementation of information systems.

Object-Oriented Database Design introduces the key concepts and techniques for developing object-oriented databases. The book provides a comprehensive introduction to the design of object-oriented databases, with a focus on object Modeling and Design for Database Applications. This book is divided into four parts: the first part covers the fundamental concepts of database design; the second part covers the use of object Modeling and Design for Database Applications; the third part covers the implementation of object-oriented databases; and the fourth part covers the use of object-oriented databases in the most popular application areas.