Modern Database Management (6th Edition)

By Jeffrey A. Hoffer, Mary B. Prescott, Fred R. McFadden

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For Database Management and Database Systems courses. Reacting to the current business environment, Modern Database Management, 6/e addresses current issues in the market, such as Internet, data warehousing and object-orientation. While sufficient technical explanations are given, the text instructs from a business perspective, allowing students to understand the role of database management within a business.

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Editorial Review

From the Back Cover

STUDY.MODERN DATABASE MANAGEMENT WITH THE LATEST COVERAGE!

- *Complete SQL Coverage!*

The following presents a chapter-by-chapter description of the major changes in this edition. Each chapter description presents a statement of the purpose of that chapter, followed by a description of the changes and revisions that have been made since the fifth edition. Each paragraph concludes with a description of the strengths that have been retained from the fifth edition. Part I: The Context of Database Management**Chapter 1: The Database Environment.** This chapter discusses the role of databases in organizations and previews the major topics in the remainder of the text. The chapter introduces a revised classification scheme that now recognizes the four types of databases outlined in the fifth edition—personal, work group, departmental, and enterprise—and now includes Internet/ intranet/extranet databases. The explanation of enterprise databases is expanded to include databases that are part of enterprise resource planning systems and data warehouses. The chapter updates the discussion of the evolution of database technologies from pre-database files to modern object-relational and Web-enabled systems. The chapter continues to present a well-organized comparison of database technology compared to conventional file-processing systems. **Chapter 2: Database Development Process.** This chapter presents a detailed discussion of the role of database development within the broader context of information systems development. The chapter explains the process of database development for both structured life cycle and prototyping methodologies. The chapter continues to discuss important issues in database development, including management of the diverse group of people involved in database development and frameworks for understanding database architectures and technologies. The chapter also continues to emphasize the information engineering methodology in database development, including the role of the enterprise data model. Reviewers frequently note the compatibility of this chapter with what students learn in systems analysis and design classes. Part II: Database Analysis**Chapter 3: Modeling Data in the Organization.** This chapter, with a new title, presents a thorough introduction to conceptual data modeling with the entity-relationship model. The new chapter title reflects a refocusing of the chapter on the reason for the entity-relationship model: to unambiguously document the rules of the business that influence database design. The chapter contains a thoroughly updated section on the latest approaches to modeling business rules, which has been moved from Chapter 4. Specific subsections explain in detail how to name and define elements of a data model, which are essential in developing an unambiguous E-R diagram. A new section addresses an issue many students face as they learn data modeling: whether to represent data as attributes or relationships. The chapter continues to proceed from simple to more complex examples, and it concludes with a comprehensive E-R diagram for Pine Valley Furniture Company. **Chapter 4: The Enhanced E-R Model and Business Rules.** This chapter presents a discussion of several advanced E-R data model constructs. New to the chapter is an introduction of entity clustering, which is a way to present simpler versions of an E-R diagram. The chapter extensively updates coverage of the GUIDE business rules methodology based on the latest guidelines, and now shows the structure of these guidelines, which will facilitate student understanding. The chapter continues to present a thorough coverage of supertype/subtype relationships. Part III: Database Design**Chapter 5: Logical Database Design and the Relational Model.** This chapter describes the process of converting a conceptual data model to the relational data model. It features an improved discussion of the characteristics of foreign keys and introduces the important concept of a non-

intelligent enterprise key. Enterprise keys (also called surrogate keys for data warehouses) are being emphasized as some concepts of object-orientation migrate into the relational technology world. The discussion of functional dependencies and normalization has been somewhat enhanced. The chapter continues to emphasize the basic concepts of the relational data model and the role of the database designer in the logical design process. **Chapter 6: Physical Database Design and Performance.** This chapter describes the steps that are essential in achieving an efficient database design. The chapter contains a new emphasis on ways to improve database performance. Several sections have been enhanced with references to specific techniques available in Oracle and other DBMSs to improve database processing performance. The discussion of indexes has been expanded to include descriptions of types of indexes (primary and secondary indexes, join index, hash index table) that are more widely available in database technologies as techniques to improve query processing speed. The discussion of RAID has been updated to reflect the latest thinking on this important technology. The chapter continues to emphasize the physical design process and the goals of that process. Part IV: Implementation**Chapter 7: SQL.** This chapter presents a thorough introduction to the SQL used by most DBMSs (SQL-92) and introduces the changes that are included in the latest standard (SQL-99). The major change for the sixth edition is that the overall coverage of SQL is expanded and divided into this and the next chapter. This chapter includes more examples of SQL code, using mostly SQL-99 syntax and some Oracle 8i syntax. There is an improved coverage of views, both dynamic and materialized. Chapter 7 explains the SQL commands to create and maintain a database and to program single-table queries. The chapter continues to use the Pine Valley Furniture Company case to illustrate a wide variety of practical queries and query results. **Chapter 8: Advanced SQL.** This new chapter continues the explanation of SQL with a careful explanation of multiple-table queries, transaction integrity, data dictionary, triggers and stored procedures, and embedded SQL in other programming language programs. All forms of the OUTER JOIN command are now covered. This chapter illustrates how to store the results of a query in a derived table, the CAST command to convert data between different data types, and the CASE command for doing conditional processing in SQL. The chapter also outlines the new on-line analytical processing (OLAP) features of SQL-99, which are necess... Users Review**From reader reviews:**
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