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Chapter 1 : Hoffer, Venkataraman & Topi, Modern Database Management, 12th Edition | Pearson

Title: Modern Database Management (10th Edition) Author Jeffrey A. Hoffer, calendrierdelascience.com, Heikki Topi, Mary B. Prescott, Fred R. McFadden Edition 10th.

For undergraduate and graduate database management courses. Provide the latest information in database development. Focusing on what leading database practitioners say are the most important aspects to database development, Modern Database Management presents sound pedagogy and includes topics that are critical for the practical success of database professionals. Features For undergraduate and graduate database management courses. Gain information from the best in the industry. The authors have worked closely with database practitioner organizations to make sure this book covers vitally important information that students need to know in order to become effective database practitioners. Illustrate the concepts with Camtasia-produced videos on www. Addressing key concepts and skills from different sections of the text, these videos help students learn potentially difficult material in a format that speaks to visual learners. Videos have been developed to support topics such as: Introduction to database Ch. Allow for more SQL integration in the course with expanded coverage. In addition to expanded SQL coverage, this text also includes new figures to graphically depict the set processing related logic of SQL queries, giving students new tools for assistance in writing queries. Linking object-oriented systems development environments with mainstream technologies. NET with the mainstream technology for maintaining organizational data has been updated to reflect the rapidly changing environment of database processing. Reflect the latest changes in the field with Updated Chapter This chapter has been reorganized to better reflect the nature of enterprise data management EDM activities in organizations. Additionally, this chapter now motivates the need for an active program to manage data quality in organizations and outlines the steps that are considered to be best practices for data quality management. Provide hands-on practice with database development: Field exercises range from directed field trips to Internet searches. In each chapter, the case begins with a description of a realistic, modern hospital situation that relates to the chapter material. The case then presents a series of case questions and exercises, focusing on specific aspects of the case. The final section includes project assignments, which tie together some issues and activities across chapters. Offer practice with industry software: Package the text with Oracle 11g or Microsoft Vision Pro. Students can purchase this book packaged with the full editions of Microsoft Visio Pro and Oracle 11g at a greatly reduced fee. These packages can be used to draw data models, generate normalized relations from conceptual data models, and generate database definition code, and more. Table of Contents Part I: The Context of Database Management Chapter 1: Database Analysis Chapter 2: Modeling Data in the Organization Chapter 3: Database Design Chapter 4: Introduction to SQL Chapter 7: Advanced SQL Chapter 8: Database Application Development Chapter 9: Data Warehousing Part V: Advanced Database Topics Chapter Data Quality and Integration Chapter Data and Database Administration Chapter Distributed Databases Chapter Object-Oriented Data Modeling Chapter Data Modeling Tools and Notations B:

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Provide the latest information in database development. Focusing on what leading database practitioners say are the most important aspects to database development, Modern Database Management presents sound pedagogy and includes topics that are critical for the practical success of database professionals.

Optional attribute Classroom Ideas 1. Review the major steps in the database development process Figure and highlight the importance of data modeling in determining the overall data requirements of information systems. Lead a discussion concerning who in the organization is typically most heavily involved in each of the steps and how end users may best participate in the process. Introduce the concept of drawing models to represent information in a concise manner by having your students participate in a small active exercise in map-making. Divide the students into teams of each so that you have an even number of teams in the class. Instruct each team to work together to investigate and develop a map to selected campus locations you develop the list ahead of time; e. Ask each team to verify the map they draw and then return to the classroom. Pair up each team with a unique location with another team; ask the teams to exchange maps. Instruct each team to then verify the map they received by following it and then returning to the classroom. Use this discussion to lead into the use of E-R notation used to represent data models and why standardization is useful to systems development activities. Ask your students to explain the business rules represented in this diagram. Use Figure to summarize the basic E-R notation used in this chapter and throughout the remainder of the text. Give examples of common errors in E-R diagramming, including inappropriate entities see Figure Ask your students for other examples. Compare strong versus weak entities using Figure Discuss the various types of attributes that are commonly encountered Figures through Again, ask your students to think of other examples. Make sure your students understand the difference between relationship types and relationship instances Figure Introduce the notion of an associative entity by using Figure Discuss the four reasons presented in the text for converting a relationship to an associative entity. Discuss unary, binary, and ternary relationships Figure Have the students brainstorm at least two additional examples for each of these relationship degrees. Discuss the bill-of-materials unary relationship Figure Use a simple and familiar product such as a toy to illustrate this structure. Introduce the concept and notation of cardinality constraints in relationships Figures , , and Emphasize that these constraints are important expressions of business rules. Introduce the problem of representing time dependent data. Use Figures and to illustrate different means of coping with time dependencies. Discuss examples of multiple relationships between entities Figure Ask your students to suggest other examples. Stress that in real-world situations, E-R diagrams are often much more complex than this example. As time permits, have your students work in small teams, 2 or 3 students each, to solve some of the E-R diagramming exercises at the end of the chapter. We have included a number of new examples for this purpose. Also, you may assign the project case as a homework exercise. Answers to Review Questions 1. Define each of the following terms: a. A collection of entities that share common properties or characteristics b. A logical representation of the data for an organization or for a business area c. A single occurrence of an entity type d. A property or characteristic of an entity type that is of interest to the organization e. A meaningful association between or among entity types f. An attribute or combination of attributes that uniquely identifies individual instances of an entity type g. An attribute that may take on more than one value for a given entity instance h. An entity type that associates the instances of one or more entity types and contains attributes that are peculiar to the relationship between those entity instances i. Specifies the number of instances of one entity that can or must be associated with each instance of another entity j. Weak entity An entity type whose existence depends on some other entity type k. The relationship between a weak entity type and its owner l. An attribute whose values can be calculated from related attribute values m. A statement that defines or constrains some aspect of the business 2. Match the following terms and definitions:

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Chapter 4 : Modern Database Management by Jeffrey A. Hoffer

The tenth edition reflects the major trends in information systems and helps readers acquire the skills the need to be successful in today's database management field. "synopsis" may belong to another edition of this title.

Chapter 5 : Pearson - Modern Database Management, 10/E - Jeffrey A. Hoffer, Ramesh Venkataraman & P

The context of database management, database analysis, database design and implementation, and advanced topics are covered in this text for an introductory course in database management as part of an information systems curriculum in business schools, computer technology programs, and applied computer science departments.

Chapter 6 : Modern Database Management Systems by Jeffrey A. Hoffer

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