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| Descrizione fisica      | 1 online resource (294 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                         | NadeauTom <1958->                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disciplina              | 005.75/6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Soggetti                | Relational databases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                         | Database design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Nota di contenuto       | front cover; copyright; table of contents; front matter; Preface;<br>Organization; Typographical Conventions; Acknowledgments; Solutions<br>Manual; body; 1 Introduction; 1.1 Data and Database Management; 1.2<br>The Database Life Cycle; 1.3 Conceptual Data Modeling; 1.4 Summary;<br>1.5 Literature Summary; 2 The Entity-Relationship Model; 2.1<br>Fundamental ER Constructs; 2.1.1 Basic Objects: Entities, Relationships,<br>Attributes; 2.1.2 Degree of a Relationship; 2.1.3 Connectivity of a<br>Relationship; 2.1.4 Attributes of a Relationship; 2.1.5 Existence of an<br>Entity in a Relationship<br>2.1.6 Alternative Conceptual Data Modeling Notations2.2 Advanced ER<br>Constructs; 2.2.1 Generalization: Supertypes and Subtypes; 2.2.2<br>Aggregation; 2.2.3 Ternary Relationships; 2.2.4 General n-ary<br>Relationships; 2.2.5 Exclusion Constraint; 2.2.6 Referential Integrity;<br>2.3 Summary; 2.4 Literature Summary; 3 The Unified Modeling |
|                         | Language (UML); 3.1 Class Diagrams; 3.1.1 Basic Class Diagram<br>Notation; 3.1.2 Class Diagrams for Database Design; 3.1.3 Example<br>from the Music Industry; 3.2 Activity Diagrams; 3.2.1 Activity Diagram<br>Notation Description; 3.2.2 Activity Diagrams for Workflow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                    | <ul> <li>3.3 Rules of Thumb for UML Usage3.4 Summary; 3.5 Literature<br/>Summary; 4 Requirements Analysis and Conceptual Data Modeling; 4.1<br/>Introduction; 4.2 Requirements Analysis; 4.3 Conceptual Data<br/>Modeling; 4.3.1 Classify Entities and Attributes; 4.3.2 Identify the<br/>Generalization Hierarchies; 4.3.3 Define Relationships; 4.3.4 Example<br/>of Data Modeling: Company Personnel and Project Database; 4.4 View<br/>Integration; 4.4.1 Preintegration Analysis; 4.4.2 Comparison of<br/>Schemas; 4.4.3 Conformation of Schemas; 4.4.4 Merging and<br/>Restructuring of Schemas; 4.4.5 Example of View Integration<br/>4.5 Entity Clustering for ER Models4.5.1 Clustering Concepts; 4.5.2<br/>Grouping Operations; 4.5.3 Clustering Technique; 4.6 Summary; 4.7<br/>Literature Summary; 5 Transforming the Conceptual Data Model to SQL;<br/>5.1 Transformation Rules and SQL Constructs; 5.1.1 Binary<br/>Relationships; 5.1.2 Binary Recursive Relationships; 5.1.3 Ternary and<br/>n-ary Relationships; 5.1.4 Generalization and Aggregation; 5.1.5<br/>Multiple Relationships; 5.1.6 Weak Entities; 5.2 Transformation Steps;<br/>5.2.1 Entity Transformation; 5.2.2 Many-to-Many Binary Relationship<br/>Transformation; 5.2.3 Ternary Relationship Transformation<br/>5.2.4 Example of ER-to-SQL Transformation5.3 Summary; 5.4<br/>Literature Summary; 6 Normalization; 6.1 Fundamentals of<br/>Normalization; 6.1.1 First Normal Form; 6.1.2 Superkeys, Candidate<br/>Keys, and Primary Keys; 6.1.3 Second Normal Form; 6.1.4 Third Normal<br/>Form; 6.1.5 Boyce-Codd Normal Form; 6.2 The Design of Normalized<br/>Tables: A Simple Example; 6.3 Normalization of Candidate Tables<br/>Derived from ER Diagrams; 6.4 Determining the Minimum Set of 3NF<br/>Tables; 6.5 Fourth and Fifth Normal Form; 6.5.3 Decomposing Tables<br/>to 4NF</li> <li>6.5.4 Fifth Normal Form</li> </ul> |
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| Sommario/riassunto | Database systems and database design technology have undergone<br>significant evolution in recent years. The relational data model and<br>relational database systems dominate business applications; in turn,<br>they are extended by other technologies like data warehousing, OLAP,<br>and data mining. How do you model and design your database<br>application in consideration of new technology or new business needs?<br>In the extensively revised fourth edition, you'll get clear explanations,<br>lots of terrific examples and an illustrative case, and the really practical<br>advice you have come to count onwith                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |