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Unified Modeling Language: Systems Analysis, Design and Development Issues
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basis for many database design and system development methodologies. The sixth international conference was organized to bring together researchers and practitioners to share new developments and discuss issues related to the use of the ER approach. Three major themes are addressed in this book: - database development and management - application systems - management of organizational information resources. Abstracts from the keynote addresses, tutorials, vendor presentations and panel sessions are included, along with 25 complete papers. Both theory and practice are addressed.

Entity-Relationship Approach - ER '94. Business Modelling and Re-Engineering North Holland

This database design book provides the reader with a unique methodology for the conceptual and logical design of databases. A step-by-step method is given for developing a conceptual structure for large databases with multiple users. Additionally, the authors provide an up-to-date survey and analysis of existing database design tools.

Entity-relationship Approach to Systems

Analysis and Design "O'Reilly Media, Inc."

This book provides comprehensive coverage of fundamentals of database management system. It contains a detailed description on Relational Database Management System Concepts. There are a variety of solved examples and review questions with solutions. This book is for those who require a better understanding of relational data modeling, its purpose, its nature, and the standards used in creating relational data model.

Entity-Relationship Approach - ER '93 IGI Global

This new book in the popular Learning series offers an easy-to-use resource for newcomers to the MySQL relational database. This tutorial explains in plain English how to set up MySQL and related software from the beginning, and how to do common tasks.

Conceptual Database Design North Holland

This edition combines clear explanations of database theory and design with up-to-date coverage of models and real systems. It features excellent examples and access to Addison Wesley's database Web site that includes further teaching, tutorials

and many useful student resources.

A Tool for Mapping Entity Relationship Model to Relational Schema Fidel A Captain

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for being an important part of keeping this knowledge alive and relevant.

Database Design Using Entity-Relationship Diagrams John Wiley & Sons

"This text presents a comprehensive introduction to an extended Entity-Relationship model both on a conceptual and on a formal, mathematical level. In addition to the primitives given by the data model the text introduces a language for the formulation of constraints in order to restrict database states to consistent ones. The text explains an implementation of the approach chosen in the logic programming language PROLOG and discusses in this context the computational power of the proposed calculus. The extended Entity-Relationship calculus is used to define the meaning of the relational query language SQL. A nice feature of the approach is that it becomes possible to prove language properties on a sound mathematical basis."--PUBLISHER'S WEBSITE.

Entity-relationship Approach to Information Modeling and Analysis CRC Press

This volume comprises the proceedings of the Eleventh International Conference on

the Entity-Relationship Approach held in Karlsruhe, Germany, October 7-9, 1992. It contains the full versions of all the 22 accepted papers selected from in total 64 submissions; in addition, the two invited talks by Scheer and by Tsichritzis and others are represented as full papers and the two other invited speakers contribute extended abstracts. All the contributions describe original research related to theoretical or practical aspects of the Entity-Relationship Approach, reflecting the trend of recent years in a wide range of database research activities. In particular, the topics database design aspects, object-orientation, integrity constraints, query languages, knowledge-based techniques, and development of new applications are addressed.

Fundamentals of Database Systems

Springer Science & Business Media

In a database design process the database model used is essential for producing a good conceptual schema. In most database models, like IMS and CODASYL, a conceptual schema contains too many implementation details which complicate the designer's task. The conceptual schema of a relational database hides too

much information from the user, because it lacks the necessary structure. The standard E-R model has more structure and is easy to use. But, it still lacks the ability to express certain types of abstract concepts needed in most design processes. In this work an extended E-R model is used, which includes abstraction hierarchies. A conceptual schema language (EXERM-CSL), extended in order to include abstraction hierarchies, is proposed to define the structural part of the model. The integrity part of the model has also been included. No model would be complete without the manipulative part. Many languages have been proposed for the E-R model. Some of them take advantage of a schema graph, as for instance GORDAS. Others are based on the concept of simplified completeness, like Executable Language for instance. In this work we propose a high-level query language (EXERM-DML), which not only makes use of the E-R diagram, but it is also based on the Reshaped Relational Algebra (RRA), which gives more expressive power to the language itself. EXERM-DML also makes provisions for abstraction hierarchies. Finally EXERM-

DML is a complete database language as far as retrieval, insertion, and updating of data is concerned.

Conceptual Schema and Relational Database Design

Prentice Hall
Twenty-three high quality papers were solicited for this book, dealing with both the principles and pragmatics of using the entity-relationship approach in research and business. Two broad topics are covered: database design and database querying. The book reflects the trends in recent years of extending the modeling power of the ER model and of incorporating knowledge-based techniques into design tools for - and implementations of - ER-based systems.

Database Systems

Pearson Education
The fifth edition of Modern Database Management has been updated to reflect the most current database content available. It provides sound, clear, and current coverage of the concepts, skills, and issues needed to cope with an expanding organizational resource. While sufficient technical detail is provided, the emphasis remains on management and implementation issues pertinent in a business information systems curriculum.

Modern Database Management, 5e is the ideal book for your database management course. *Includes coverage of today's leading database technologies: Oracle and Microsoft Access replace dBase and paradox. *Now organized to create a modern framework for a range of databases and the database development of information systems. *Expanded coverage of object-oriented techniques in two full chapters. Covers conceptual object-oriented modelling using the new Unified Modelling Language and object-oriented database development and querying using the latest ODMG standards. *Restructured to emphasize unique database issues that arise during the design of client/server applications. *Updated to reflect current developments in client/server issues including three-tiered architect

Database Design Using Entity-Relationship Diagrams CRC Press

This monograph is devoted to computational morphology, particularly to the construction of a two-dimensional or a three-dimensional closed object boundary through a set of points in arbitrary position. By applying techniques from

computational geometry and CAGD, new results are developed in four stages of the construction process: (a) the gamma-neighborhood graph for describing the structure of a set of points; (b) an algorithm for constructing a polygonal or polyhedral boundary (based on (a)); (c) the flintstone scheme as a hierarchy for polygonal and polyhedral approximation and localization; (d) and a Bezier-triangle based scheme for the construction of a smooth piecewise cubic boundary.

On the Automatic Transformation of Extended ER Diagrams Into the Relational Model North Holland

In this volume, researchers and practitioners share developments, raise new research issues, and exchange experiences related to the use of the ER approach in the development, maintenance, and use of information systems. From the original ER model, several more complete variants have been developed. In addition, the ER model has been applied in other approaches, such as semantic and other object-oriented models, resulting in their incorporation into the ER model. Four major themes are addressed: Knowledge Representation,

Conceptual Modelling and Data Base Design, New Approaches in Database Management Systems and in Information Systems, and Innovative Theories and Applications.

Entity-Relationship Modeling Springer Science & Business Media

This is a reference guide on the design of relational databases. It applies the entity-relationship model to the conceptual level of database design, and combines this application with rigorous treatment of the design of relational schemes. The book presents practical design theory and methods in a unified way.

ICDT'86 Pearson Education India

This volume constitutes the proceedings of the 13th International Conference on the Entity-Relationship Approach, ER '94, held in Manchester, UK in December 1994. The ER '94 book is devoted to business modelling and re-engineering and provides a balanced view between research and practical experience. The 34 full revised papers presented are organized in sections on business process modelling, enterprise modelling, systems evolution, modelling integrity constraints, object-oriented databases, active databases,

CASE, reverse engineering, information system modelling, schema coordination, and re-engineering.

The TSQL2 Temporal Query Language

Springer Science & Business Media

This book places a strong emphasis on good design practice, allowing readers to master design methodology in an accessible, step-by-step fashion. In this book, database design methodology is explicitly divided into three phases: conceptual, logical, and physical. Each phase is described in a separate chapter with an example of the methodology working in practice. Extensive treatment of the Web as an emerging platform for database applications is covered alongside many code samples for accessing databases from the Web including JDBC, SQLJ, ASP, ISP, and Oracle's PSP. A thorough update of later chapters covering object-oriented databases, Web databases, XML, data warehousing, data mining is included in this new edition. A clear introduction to design

implementation and management issues, as well as an extensive treatment of database languages and standards, make this book an indispensable, complete reference for database professionals.

Learning MySQL Addison Wesley Publishing Company

Addressing important extensions of the relational database model, including deductive, temporal, and object-oriented databases, this book provides an overview of database modeling with the Entity-Relationship (ER) model and the relational model. The book focuses on the primary achievements in relational database theory, including query languages, integrity constraints, database design, computable queries, and concurrency control. This reference will shed light on the ideas underlying relational database systems and the problems that confront database designers and researchers.

Entity-relationship Approach to Information Modeling and Analysis
Springer Science & Business Media

UML is a large and complex language, with many features in need of refinement or clarification, and there are different views about how to use UML to build systems.

This book sheds light on such issues, by illustrating how UML can be used successfully in practice as well as identifying various problematic aspects of UML and suggesting possible solutions.

The Entity-Relationship Model: A Basis for the Enterprise View of Data Addison-Wesley Professional

This book is a comprehensive presentation of entity-relationship (ER) modeling with regard to an integrated development and modeling of database applications. It comprehensively surveys the achievements of research in this field and deals with the ER model and its extensions. In addition, the book presents techniques for the translation of the ER model into classical database models and languages, such as relational, hierarchical, and network models and languages, as well as into object-oriented models.

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