

[Books] Conceptual Schema And Relational Database Design A Fact Oriented Approach

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Conceptual Schema and Relational Database Design - G. M. Nijssen - 1989

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This second edition has been substantially revised and expanded to encompass the latest ideas in designing a conceptual data model. It has been written primarily for students of computer science as well as professional database designers. The major part of the book deals with Object-Role Modelling (ORM), a conceptual approach which views the world in terms of objects and the roles they play. Each chapter ends with a summary of the major points covered, and a glossary of terms and technical symbols is included. Graded exercises are included, as are selected answers, a bibliography, and an index. The author is a senior lecturer and director of the asymmetric research laboratory at the University of Queensland.

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Analyzing a NIAM Conceptual Schema and Its Transformation Into an EKNF Relational Database Schema - Yanchun Zhang - 1989

In this paper, an algorithm is presented, which can simplify the NIAM conceptual schemas and transform them into Elementary Key Normal Form relational database schema with minimum number of relation schemas.

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Databases - Terry Halpin - 2010-07-27
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Database Schema Evolution and Meta-Modeling - Herman Balsters - 2003-06-29
The Ninth International Workshop on Foundations of Models and Languages for Data and Objects (FoMLaDO) took place in Dagstuhl Germany, September 18-21, 2000. The topic of this workshop was Database schema Evolution and Meta-Modeling; this FoMLaDO Workshop was hence assigned the acronym DEMM 2000. These post-proceedings contain the revised versions of the accepted papers of the DEMM 2000 workshop. Twelve regular papers were accepted for inclusion in the proceedings. The papers address the following issues: { Consistency of evolving concurrent information systems { Adaptive specifications of technical information systems { Change propagation in schema evolution of object-based systems { Evolving software of a schema evolution system { Logical characterization of schema evolution { Conflict management in integrated databases { Evolving relation schemas { Conceptual descriptions of adaptive information systems { OQL-extensions for metadata access { Metamodeling of schema evolution { Metrics for conceptual schema evolution { Incremental datawarehouse construction In addition to the regular papers, there is an invited paper by Can Turk" er on schema evolution in SQL99 and (object-)relational databases. Acknowledgements: We wish to thank the program committee members for their work on reviewing the submitted papers. We also wish to thank all authors for submitting papers to this workshop.

transformation, but combines it with heuristic techniques, particularly the synthesis method originally developed to produce an initial relational schema from functional dependencies, apply in the redesign of NIAM conceptual schemas. Finally, we transform it into a 3NF relational database schema with fewer relations."

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On Automation of Semantic Approach for Relational Database Design - Yanchun Zhang - 1990

Abstract: "We describe a tool system (ESM) for detection of unwanted properties (such as implied fact types) of a conceptual schema and show how the system supports the design process. The system uses a rigorous, information-content-preserving approach to schema

and user interaction. We show how normalization techniques, particularly the synthesis method originally developed to produce an initial relational schema from functional dependencies, apply in the redesign of NIAM conceptual schemas. Finally, we transform it into a 3NF relational database schema with fewer relations."

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Specification of Conceptual Database Schema Languages - Emmanuel G.

Theodossakis - 1988

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

Databases - Terry Halpin - 2001-04-17

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.

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Data Reverse Engineering - Linda Judith Bird - 1997

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Information Modeling and Relational

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On Conceptual Modelling - M.L. Brodie - 2012-12-06

increasing complexity and precision has stimulated the need for higher level concepts, tools, and techniques in every area of Computer Science. Some of these areas, in particular Artificial Intelligence, Databases, and Programming Languages, are attempting to meet this demand by defining a new, more abstract level of system description. We call this new level conceptual in recognition of its basic conceptual nature. In Artificial Intelligence, the problem of designing an expert system is seen primarily as a problem of building a knowledge base that represents knowledge about an enterprise. Consequently, Knowledge Representation is viewed as a central issue in Artificial Intelligence research. Database design methodologies developed during the last five years are almost unanimous in offering semantic data models in terms of which the designer directly and naturally models an enterprise before proceeding to a detailed logical and physical database design. In Programming Languages, different forms of abstraction which allow implementation independent specifications of data, functions, and control have been a major research theme for a decade. To emphasize the common goals of these three research efforts, we call this new activity conceptual modelling.

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Diagrams Worksheet Chapter 4 MCQ: Database Languages, different forms of abstraction which allow implementation independent specifications of data, functions, and control have been a major research theme for a decade. To emphasize the common goals of these three research efforts, we call this new activity conceptual modelling.

Database Management System MCQs -

Arshad Iqbal - 2019-06-11

Database Management System Multiple Choice Questions and Answers (MCQs): Quizzes & Practice Tests with Answer Key PDF, Database Worksheets & Quick Study Guide covers exam review worksheets for problem solving with 600 solved MCQs. Database Management System MCQ with answers PDF covers basic concepts, theory and analytical assessment tests. Database Management System quiz PDF book helps to practice test questions from exam prep notes. DBMS quick study guide provides 600 verbal, quantitative, and analytical reasoning solved past question papers MCQs. Database Management System multiple choice questions and answers PDF download, a book covers solved quiz questions and answers on chapters: Modeling, entity relationship model, database concepts and architecture, database design methodology and UML diagrams, database management systems, disk storage, file structures and hashing, entity relationship modeling, file indexing structures, functional dependencies and normalization, introduction to SQL programming techniques, query processing and optimization algorithms, relational algebra and calculus, relational data model and database constraints, relational database design, algorithms dependencies, schema definition, constraints, queries and views worksheets for college and university revision guide. Database Management System quiz questions and answers PDF download with free sample test covers beginner's questions and mock tests with exam workbook answer key. Database management system solved MCQs book, a quick study guide from textbook lecture notes provides exam practice tests. Database Systems worksheets with answers PDF book covers problem solving in self-assessment workbook from computer science textbooks with past papers worksheets as: Chapter 1 MCQ: Data Modeling: Entity Relationship Model Worksheet Chapter 2 MCQ: Database Concepts and Architecture Worksheet Chapter 3 MCQ: Database Design Methodology and UML

Management Systems Worksheet Chapter 5 MCQ: Disk Storage, File Structures and Hashing Worksheet Chapter 6 MCQ: Entity Relationship Modeling Worksheet Chapter 7 MCQ: File Indexing Structures Worksheet Chapter 8 MCQ: Functional Dependencies and Normalization Worksheet Chapter 9 MCQ: Introduction to SQL Programming Techniques Worksheet Chapter 10 MCQ: Query Processing and Optimization Algorithms Worksheet Chapter 11 MCQ: Relational Algebra and Calculus Worksheet Chapter 12 MCQ: Relational Data Model and Database Constraints Worksheet Chapter 13 MCQ: Relational Database Design: Algorithms Dependencies Worksheet Chapter 14 MCQ: Schema Definition, Constraints, Queries and Views Worksheet Solve Data Modeling: Entity Relationship Model MCQ with answers PDF to practice test, MCQ questions: Introduction to data modeling, ER diagrams, ERM types constraints, conceptual data models, entity types, sets, attributes and keys, relational database management system, relationship types, sets and roles, UML class diagrams, and weak entity types. Solve Database Concepts and Architecture MCQ with answers PDF to practice test, MCQ questions: Client server architecture, data independence, data models and schemas, data models categories, database management interfaces, database management languages, database management system classification, database management systems, database system environment, relational database management system, relational database schemas, schemas instances and database state, and three schema architecture. Solve Database Design Methodology and UML Diagrams MCQ with answers PDF to practice test, MCQ questions: Conceptual database design, UML class diagrams, unified modeling language diagrams, database management interfaces, information system life cycle, and state chart diagrams. Solve Database Management Systems MCQ with answers PDF to practice test, MCQ questions: Introduction to DBMS, database management system advantages, advantages of DBMS, data abstraction, data independence, database applications history, database approach characteristics, and DBMS end users. Solve Disk Storage, File Structures and Hashing MCQ with answers PDF to practice test, MCQ questions: Introduction to disk storage, database management systems, disk file records, file

Database Management System Multiple Choice records, and secondary storage devices. Solve Entity Relationship Modeling MCQ with answers PDF to practice test, MCQ questions: Data abstraction, EER model concepts, generalization and specialization, knowledge representation and ontology, union types, ontology and semantic web, specialization and generalization, subclass, and superclass. Solve File Indexing Structures MCQ with answers PDF to practice test, MCQ questions: Multilevel indexes, b trees indexing, single level order indexes, and types of indexes. Solve Functional Dependencies and Normalization MCQ with answers PDF to practice test, MCQ questions: Functional dependencies, normalization, database normalization of relations, equivalence of sets of functional dependency, first normal form, second normal form, and relation schemas design. Solve Introduction to SQL Programming Techniques MCQ with answers PDF to practice test, MCQ questions: Embedded and dynamic SQL, database programming, and impedance mismatch. Solve Query Processing and Optimization Algorithms MCQ with answers PDF to practice test, MCQ questions: Introduction to query processing, and external sorting algorithms. Solve Relational Algebra and Calculus MCQ with answers PDF to practice test, MCQ questions: Relational algebra operations and set theory, binary relational operation, join and division, division operation, domain relational calculus, project operation, query graphs notations, query trees notations, relational operations, safe expressions, select and project, and tuple relational calculus. Solve Relational Data Model and Database Constraints MCQ with answers PDF to practice test, MCQ questions: Relational database management system, relational database schemas, relational model concepts, relational model constraints, database constraints, and relational schemas. Solve Relational Database Design: Algorithms Dependencies MCQ with answers PDF to practice test, MCQ questions: Relational decompositions, dependencies and normal forms, and join dependencies. Solve Schema Definition, Constraints, Queries and Views MCQ with answers PDF to practice test, MCQ questions: Schemas statements in SQL, constraints in SQL, SQL data definition, and types.

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The Architectural Logic of Database Systems

- Emmanuel J. Yannakoudakis - 2012-12-06

If we look back to pre-database systems and the data units which were in use, we will establish a hierarchy starting with the concept of 'field' used to build 'records' which were in turn used to build higher data units such as 'files'. The file was considered to be the ultimate data unit of information processing and data binding 'monolith'. Moreover, pre database systems were designed with one or more programming languages in mind and this in effect restricted

Conceptual Model - Jyrki Nummenmaa - 1998 applications and associated storage structures. Database systems came along not to turn the above three units into outmoded concepts, but rather to extend them further by establishing a higher logical unit for data description and thereby offer high level data manipulation functions. It also becomes possible for computer professionals and other users to view all information processing needs of an organisation through an integrated, disciplined and methodical approach. So, database systems employ the concepts field, record and file without necessarily making them transparent to the user who is in effect offered a high level language to define data units and relationships, and another language to manipulate these. A major objective of database systems is to allow logical manipulations to be carried out independent of storage manipulations and vice versa.

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Functional Dependencies in a Hierarchical

Abstract: "The database design often gets its input from a conceptual design process. The outcome of the process should somehow be used as the input for database design. For this, it is necessary to use methods to produce the necessary data for database design for the particular database model being used. We will define a hierarchical conceptual modelling language which has two types of relationships between concepts (aggregation and generalisation) and other constructs (cardinalities, concept primary keys and concept functional dependencies) to describe the conceptual schema. We show how functional dependencies for relational database design can be produced from a conceptual schema, assuming the conceptual schema meets certain conditions. The conceptual modelling language is based on the use of graph theory. Care is taken to ensure compatibility between the conceptual model and relational dependency theory. We also use relational dependency theory to operate with the conceptual model."

Functional Dependencies in a Hierarchical Conceptual Model - Jyrki Nummenmaa - 1998

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Advances in Conceptual Modeling - Peter P. Chen - 2007-07-16

The objective of the workshops associated with the ER'99 18th International Conference on

conference and the workshop presentations they access to high level presentations on specialized, hot, or emerging scientific topics. Three themes have been selected in this respect: — Evolution and Change in Data Management (ECDM'99) dealing with handling the evolution of data and data structure, — Reverse Engineering in Information Systems (REIS'99) aimed at exploring the issues raised by legacy systems, — The World Wide Web and Conceptual Modeling (WWWCM'99) which analyzes the mutual contribution of WWW resources and techniques with conceptual modeling. ER'99 has been organized so that there is no overlap between conference sessions and the workshops. Therefore participants can follow both the conference and the workshop presentations they are interested in. I would like to thank the ER'99 program co-chairs, Jacky Akoka and Mokrane Bouzeghoub for having given me the opportunity to organize these workshops. I would also like to thank Stephen Liddle for his valuable help in managing the evaluation procedure for submitted papers and helping to prepare the workshop proceedings for publication. August 1999 Jacques Kouloumdjian Preface for ECDM'99 The first part of this volume contains the proceedings of the First International Workshop on Evolution and Change in Data Management, ECDM'99, which was held in conjunction with the 18th International Conference on Conceptual Modeling (ER'99) in Paris, France, November 15-18, 1999.

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Integrated Management of Technical

Documentation - Jirka Hoppe - 2012-12-06
Writing documentation is an integral part of any technical product development. A significant amount of time is spent describing the product

details, providing maintenance instructions, specifying marketing information, writing user manuals, etc. As the creation of such documentation is generally a source of higher production costs, many large companies are realising the need to increase the efficiency of documentation handling. Simple documents consisting of only a few pages can be developed on simple systems. Basic components of such systems are an editor handling text and graphics, file storage, and a printer. Such configurations, however, are not sufficient to handle professional documentation as produced by larger companies. Detailed studies of technical documentation requirements have revealed that in particular the following functionality is not usually provided by such simple documentation systems: Technical documentation is often very large; documents having hundreds or even thousands of pages are not exceptional. Due to size and complexity, technical documentation is developed most often by a team of authors. A system for technical documentation has to provide functionality supporting the organisation of a group of authors. Technical documentation usually consists of many different documents combined into one large documentation for a particular product. The optimum organisation of the storage and retrieval of documents is crucial for the performance and acceptability of the system. The functionality offered by normal file systems is not adequate to organise complex systems.

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Information Modelling and Knowledge Bases X - Hannu Jaakkola - 1999

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Database Schema Evolution and Meta-Modeling - Herman Balsters - 2001-06-20
 The Ninth International Workshop on Foundations of Models and Languages for Data

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Spatial Database Systems - Albert K.W. Yeung - 2007-05-23

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Data Modeling and Database Design -

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Handbook of Research on Innovations in Database Technologies and Applications -

Viviana E. Ferragine - 2009-01-01

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Software Prototyping in Data and Knowledge Engineering -

G. Guida - 2013-03-07

This monograph describes an innovative prototyping framework for data and knowledge intensive systems. The proposed approach will prove especially useful for advanced and research-oriented projects that aim to develop a traditional database perspective into fully-fledged advanced database approaches and knowledge engineering technologies. The book is organised in two parts. The first part, comprising chapters 1 to 4, provides an introduction to the concept of prototyping, to database and knowledge-based technologies, and to the main issues involved in the integration of data and knowledge engineering. The second part, comprising chapters 5 to 12, illustrates the proposed approach in technical detail. Audience: This volume will be of interest to researchers in the field of databases and knowledge engineering in general, and for software designers and knowledge engineers who aim to expand their expertise in data and knowledge intensive systems.

Software Prototyping in Data and Knowledge Engineering -

G. Guida - 2013-03-07

This monograph describes an innovative prototyping framework for data and knowledge intensive systems. The proposed approach will prove especially useful for advanced and research-oriented projects that aim to develop a traditional database perspective into fully-fledged advanced database approaches and knowledge engineering technologies. The book is organised in two parts. The first part, comprising chapters 1 to 4, provides an introduction to the concept of prototyping, to database and

query languages, representation, integration, issues involved in the integration of data and knowledge engineering. The second part, comprising chapters 5 to 12, illustrates the proposed approach in technical detail. Audience: This volume will be of interest to researchers in the field of databases and knowledge engineering in general, and for software designers and knowledge engineers who aim to expand their expertise in data and knowledge intensive systems.

Theory and Practice of Model

Transformation - Arend Rensink - 2018-06-18

This book constitutes the refereed proceedings of the 11th International Conference on Model Transformation, ICMT 2018, held as part of STAF 2018, in Toulouse, France, in June 2018. The 9 full papers were carefully reviewed and selected from 24 submissions. This book also presents 1 invited paper. The papers include research, application, and tool demonstration papers presented in the context of four sessions on verification of model transformations, model transformation tools, transformation reuse and graph transformations.

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Conceptual Modeling - ER '96 - International Conference on Conceptual Modeling 1996 Cottbus, germany - 1996-09-25

This volume constitutes the refereed proceedings of the 15th International Conference on Conceptual Modeling, ER '96, held in Cottbus, Germany, in October 1996. The volume presents three invited contributions together with 29 revised full papers selected from 110 submissions. The papers cover all current aspects of the entity-relationship approach and conceptual modeling; they are organized in sections on advanced schema design, processes,

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On the Move to Meaningful Internet Systems: OTM 2011 Workshops - Robert Meersman - 2011-10-30

This volume constitutes the refereed proceedings of nine international workshops, EI2N+NSF ICE, ICSP, INBAST, ISDE, MONET, ORM, SeDeS, SWWS, and VADER 2011, held as part of OTM 2011 in Hersonissos on the island of Crete, Greece, in October 2011. The 64 revised full papers presented were carefully reviewed and selected from a total of 104 submissions. The volume also includes three papers from the On the Move Academy (OTMA) 2011 and five ODBASE 2011 poster papers. Topics of the workshop papers are enterprise integration and semantics, information centric engineering, interoperability, industrial and business applications of semantic Web applications, information systems in distributed environments, process management in distributed information system development, distributed information systems: implementation issues and applications, industrial applications of fact-oriented modeling, data warehouse modeling, extensions to fact-oriented modeling, model validation procedures, schema transformations and mapping, semantic Web and Web semantics, ontology development, deployment and interoperability, data access and efficient computation, efficient information processing, exchange and knowledge synthesis algorithms, mobile and networking technologies for social applications, semantic and decision

illustrations of database concepts. The Sixth Edition maintains its coverage of the most popular database topics, including SQL, security, and data mining, and features increased emphasis on XML and semi-structured data.

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Fundamentals of Database Systems - Shamkant B. Navathe - 2011-11-21
This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Clear explanations of theory and design, broad coverage of models and real systems, and an up-to-date introduction to modern database technologies result in a leading introduction to database systems. Intended for computer science majors, Fundamentals of Database Systems, 6/e emphasizes math models, design issues, relational algebra, and relational calculus. A lab manual and problems give students opportunities to practice the fundamentals of design and implementation. Real-world examples serve as engaging, practical

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Conceptual Modeling - Isabelle Comyn-Wattiau - 2016-11-07
This book constitutes the refereed proceedings of the 345h International Conference on Conceptual Modeling, ER 2016, held in Gifu, Japan, in November 2016. The 23 full and 18 short papers presented together with 3 keynotes were carefully reviewed and selected from 113 submissions. The papers are organized in topical sections on Analytics and Conceptual Modeling; Conceptual Modeling and Ontologies; Requirements Engineering; Advanced Conceptual Modeling; Semantic Annotations; Modeling and Executing Business Processes; Business Process Management and Modeling; Applications and Experiments of Conceptual Modeling; Schema Mapping; Conceptual Modeling Guidance; and Goal Modeling.

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