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Query Optimization By Semantic Reasoning

Michael N. Huhns,Munindar P. Singh

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Methodologies for Intelligent Systems Zbigniew Raâs,Maria Zemankova,1991-09-25 This volume contains the papers selected for presentation at the Sixth International Symposium on Methodol ogies for Intelligent Systems held in Charlotte North Carolina in October 1991 The symposium was hosted by UNC Charlotte and sponsored by IBM Charlotte ORNL CESAR and UNC Charlotte The papers discuss topics in the following major areas Approximate reasoning Expert systems Intelligent databases Knowledge representation Learning and adaptive systems Logic for artificial intelligence The goal of the symposium was to provide a platform for a useful exchange and cross fertilization of ideas between theoreticians and practitioners in these areas **Database and Expert Systems Applications** Vladimir Marik,Werner Retschitzegger,2003-08-21 This book constitutes the refereed proceedings of the 14th International Conference on Database and Expert Systems Applcations DEXA 2003 held in Prague Czech Republic in September 2003 The 91 revised full papers presented together with an invited paper and a position paper were carefully reviewed and selected from 236 submissions The papers are organized in topical sections on XML data modeling spatial database systems mobile computing transactions bioinformatics information retrieval multimedia databases Web applications ontologies object oriented databases query optimization workflow systems knowledge engineering and security MFDBS 89 Janos Demetrovics,Bernhard Thalheim,1989-05-30 This volume is a collection of the most important contributions presented at the second MFDBS

conference held in Visegr d Hungary June 26 30 1989 The papers selected from more than one hundred submissions originating from 23 countries in 4 continents can be roughly divided into the following sections theoretical fundamentals of relational databases logical foundations and databases data modelling database design deductive databases transaction management and security concurrency control and distributed databases The volume reflects the current state of knowledge and is a guide to further development in database theory **Foundations of Deductive Databases and Logic Programming** Jack Minker,2014-05-12 Foundations of Deductive Databases and Logic Programming focuses on the foundational issues concerning deductive databases and logic programming The selection first elaborates on negation in logic programming and towards a theory of declarative knowledge Discussions focus on model theory of stratified programs fixed point theory of nonmonotonic operators stratified programs semantics for negation in terms of special classes of models relation between closed world assumption and the completed database negation as a failure and closed world assumption The book then takes a look at negation as failure using tight derivations for general logic programs declarative semantics of logic programs with negation and declarative semantics of deductive databases and logic programs The publication tackles converting AND control to OR control by program transformation optimizing dialog equivalences of logic programs unification and logic programming and parallel complexity Topics include parallelism and structured and unstructured data parallel algorithms and complexity solving equations most general unifiers systems of equations and inequations equivalences of logic programs and optimizing recursive programs The selection is a valuable source of data for researchers interested in pursuing further studies on the foundations of deductive databases and logic programming *Scientific and Technical Aerospace Reports* ,1991 **ARPA/Rome Laboratory Knowledge-based Planning and Scheduling Initiative Workshop Proceedings, Tuscon, Arizona, February 21-24, 1994** ,1994 **Readings in Agents** Michael N. Huhns,Munindar P. Singh,1998 This book collects the most significant literature on agents in an attempt top forge a broad foundation for the field Includes papers from the perspectives of AI databases distributed computing and programming languages The book will be of interest to programmers and developers especially in Internet areas **Database Applications Semantics** L. Mark,2016-01-09 The number of new applications in need of database support is exploding and there is an increasing need to link and access database systems supporting these new applications via computer networks End users and non computer experts are becoming heavily involved in the set up management and use of database systems and this book provides the important database design methodologies and implementation technology which should be available for them as well as for computer experts **The Handbook of Artificial Intelligence** Avron Barr,Edward A. Feigenbaum,2014-05-12 The Handbook of Artificial Intelligence Volume II focuses on the improvements in artificial intelligence AI and its increasing applications including programming languages intelligent CAI systems and the employment of AI in medicine science and education The book first elaborates on programming languages for AI research and

applications oriented AI research Discussions cover scientific applications teiresias applications in chemistry dependencies and assumptions AI programming language features and LISP The manuscript then examines applications oriented AI research in medicine and education including ICAI systems design intelligent CAI systems medical systems and other applications of AI to education The manuscript explores automatic programming as well as the methods of program specification basic approaches and automatic programming systems The book is a valuable source of data for computer science experts and researchers interested in conducting further research in artificial intelligence **Knowledge, Data and Computer-Assisted Decisions** Martin Schader,Wolfgang A. Gaul,2012-12-06 Proceedings of the NATO Advanced Research Workshop on Data Expert Knowledge and Decisions held in Hamburg FRG September 3 5 1989 **Advances in Database Technology - EDBT '90** Francois Bancilhon,Costantino Thanos,1990-02-21 Database technology is currently being pushed by the needs of new applications and pulled by the oppor tunities of novel developments in hardware and systems architecture The invited paper two panel sessions and 27 papers in this volume report on how the technology is currently extending One broad area covered is extended database semantics including data models and data types databases and logic complex objects and expert system approaches to databases The other area covered is raw architectures and increased database systems support including novel transaction models data distribution and replication database administration and access efficiency Knowledge Management & Intelligent Enterprises Joseph Fong,2001 This book provides an up to date study of the fundamental facets of supporting information technologies organisation and people data and information presentation of information and process To improve the effective use of human resources it is necessary to capture the structure of an organisation and the knowledge of people within the organisation Data can be processed to produce new information by either inferring hidden implications or summarising a large volume of information into more manageable information units Information may also be required to be presented using different perspectives so as to meet individual needs and at the same time reinforce policy on data access rights Routing of information and job tasks is paramount in ensuring that all necessary steps are taken for a given job These complementary aspects are explored throughout the volume The book is a selection of papers presented at the Industrial Session of the 9th IFIP 2 6 Working Conference on Database Semantics It will be of significant value to researchers teachers students and practitioners The scope embraces design methodology implementation techniques and applications development Specific topics include knowledge management intelligent enterprises query transformation information sharing and retrieval data warehousing and knowledge discovery *Data Quality* Yng-Yuh Richard Wang,Richard Y. Wang,Mostapha Ziad,Yang W. Lee,2001 Data Quality provides an expos of research and practice in the data quality field for technically oriented readers It is based on the research conducted at the MIT Total Data Quality Management TDQM program and work from other leading research institutions This book is intended primarily for researchers practitioners educators and graduate students in the fields of

Computer Science Information Technology and other interdisciplinary areas It forms a theoretical foundation that is both rigorous and relevant for dealing with advanced issues related to data quality Written with the goal to provide an overview of the cumulated research results from the MIT TDQM research perspective as it relates to database research this book is an excellent introduction to Ph D who wish to further pursue their research in the data quality area It is also an excellent theoretical introduction to IT professionals who wish to gain insight into theoretical results in the technically oriented data quality area and apply some of the key concepts to their practice **Deploying and Managing Fuseki Servers** Richard Johnson,2025-06-05 Deploying and Managing Fuseki Servers Deploying and Managing Fuseki Servers is a comprehensive and authoritative guide for professionals seeking to master the deployment configuration and administration of Apache Jena Fuseki servers Beginning with the essentials of semantic web architecture the book provides a structured exploration of RDF principles SPARQL protocol and the critical functions of the Fuseki platform within modern data architectures Readers are introduced to the Jena framework s core components positioning Fuseki as a pivotal technology for linked data enterprise integration and knowledge graph solutions The book offers clear step by step coverage of installation and operational best practices including platform specific considerations automated provisioning clustering and secure configuration Detailed chapters delve into robust dataset management advanced security controls resource optimization and performance scaling ensuring that practitioners can confidently deliver scalable and resilient SPARQL endpoints Special attention is paid to configuration management dataset federation backup strategies monitoring and disaster recovery providing practical guidance for sustaining long term enterprise grade deployments For developers and system architects the volume presents advanced topics such as custom SPARQL functions federated queries integration with enterprise authentication providers continuous delivery pipelines and telemetry Troubleshooting methodologies operational runbooks and participation in the open source Jena community round out this indispensable resource With in depth insights and actionable strategies throughout Deploying and Managing Fuseki Servers equips readers to build secure high performance and future proof semantic data infrastructures Handbook of Ambient Intelligence and Smart Environments Hideyuki Nakashima,Hamid Aghajan,Juan Carlos Augusto,2009-10-01 Our homes anticipate when we want to wake up Our computers predict what music we want to buy Our cars adapt to the way we drive In today s world even washing machines rice cookers and toys have the capability of autonomous decision making As we grow accustomed to computing power embedded in our surroundings it becomes clear that these smart environments with a number of devices controlled by a coordinating system capable of ambient intelligence will play an ever larger role in our lives This handbook provides readers with comprehensive up to date coverage in what is a key technological field Systematically dealing with each aspect of ambient intelligence and smart environments the text covers everything from visual information capture and human computer interaction to multi agent systems network use of sensor data and building more rationality into artificial systems The book also details a wide range of

applications examines case studies of recent major projects from around the world and analyzes both the likely impact of the technology on our lives and its ethical implications With a wide variety of separate disciplines all conducting research relevant to this field this handbook encourages collaboration between disparate researchers by setting out the fundamental concepts from each area that are relevant to ambient intelligence and smart environments providing a fertile soil in which ground breaking new work candevelop **Database Systems for Advanced Applications. DASFAA 2023 International Workshops** Amr El Abbadi,Gillian Dobbie,Zhiyong Feng,Lu Chen,Xiaohui Tao,Yingxia Shao,Hongzhi Yin,2023-09-27 This volume constitutes the papers of several workshops which were held in conjunction with the 28th International Conference on Database Systems for Advanced Applications DASFAA 2023 held in Tanjin China in April 2023 The 23 revised full papers presented in this book were carefully reviewed and selected from 40 submissions DASFAA 2023 presents the following four workshops 9th International Workshop on Big Data Management and Service BDMS 2023 8th International Workshop on Big Data Quality Management BDQM 2023 7th International Workshop on Graph Data Management and Analysis GDMA 2023 1st International Workshop on Bundle based Recommendation Systems BundleRS 2023 *Conceptual Information Retrieval* Michael L. Mauldin,2012-12-06 The infonnation revolution is upon us Whereas the industrial revolution heralded the systematic augmentation of human physical limitations by har nessing external energy sources the infonnation revolution strives to augment human memory and mental processing limitations by harnessing external computational resources Computers can accumulate transmit and output much more infonnation and in a more timely fashion than more con ventional printed or spoken media Of greater interest however is the computer s ability to process classify and retrieve infonnation selectively in response to the needs of each human user One cannot drink from the fire hydrant of infonnation without being immediately flooded with irrelevant text Recent technological advances such as optical character readers only exacerbate the problem by increasing the volume of electronic text Just as steam and internal combustion engines brought powerful energy sources under control to yield useful work in the industrial revolution so must we build computational engines that control and apply the vast infonnation sources that they may yield useful knowledge Information science is the study of systematic means to control classify process and retrieve vast amounts of infonnation in electronic fonn In par ticular several methodologies have been developed to classify texts manually by annies of human indexers as illustrated quite clearly at the National Library ofMedicine and many computational techniques have been developed to search textual data bases automatically such as full text keyword searches In general

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Table of Contents Query Optimization By Semantic Reasoning

1. Understanding the eBook Query Optimization By Semantic Reasoning
    - The Rise of Digital Reading Query Optimization By Semantic Reasoning
    - Advantages of eBooks Over Traditional Books
2. Identifying Query Optimization By Semantic Reasoning
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Query Optimization By Semantic Reasoning
    - User-Friendly Interface
4. Exploring eBook Recommendations from Query Optimization By Semantic Reasoning

- Personalized Recommendations
- Query Optimization By Semantic Reasoning User Reviews and Ratings
- Query Optimization By Semantic Reasoning and Bestseller Lists

5. Accessing Query Optimization By Semantic Reasoning Free and Paid eBooks
   - Query Optimization By Semantic Reasoning Public Domain eBooks
   - Query Optimization By Semantic Reasoning eBook Subscription Services
   - Query Optimization By Semantic Reasoning Budget-Friendly Options
6. Navigating Query Optimization By Semantic Reasoning eBook Formats
   - ePub, PDF, MOBI, and More
   - Query Optimization By Semantic Reasoning Compatibility with Devices
   - Query Optimization By Semantic Reasoning Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Query Optimization By Semantic Reasoning
   - Highlighting and Note-Taking Query Optimization By Semantic Reasoning
   - Interactive Elements Query Optimization By Semantic Reasoning
8. Staying Engaged with Query Optimization By Semantic Reasoning
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Query Optimization By Semantic Reasoning
9. Balancing eBooks and Physical Books Query Optimization By Semantic Reasoning
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Query Optimization By Semantic Reasoning
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Query Optimization By Semantic Reasoning
    - Setting Reading Goals Query Optimization By Semantic Reasoning
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Query Optimization By Semantic Reasoning

- Fact-Checking eBook Content of Query Optimization By Semantic Reasoning
- Distinguishing Credible Sources

13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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