



# Query Optimization By Semantic Reasoning

**Michael L. Mauldin**



## **Query Optimization By Semantic Reasoning:**

**Query Optimization by Semantic Reasoning** Jonathan Jay King, 1984      **Query Optimization by Semantic Reasoning** J. J. King, 1981 The problem of database query optimization is to select an efficient way to process a query expressed in logical terms from among the alternative ways it can be carried out in the physical database This thesis presents a new approach to this problem called semantic query optimization The goal of semantic query optimization is to produce a semantically equivalent query that is less expensive to process than the original query Semantic query optimization actually transforms the original query into a new one by means of a process of inference The transformations are limited to those that yield a semantically equivalent query one that is guaranteed to produce the same answer as the original query in any permitted state of the database This guarantee is achieved because the knowledge used to transform a query is the same knowledge used to insure the semantic integrity of the data stored in the database Thus semantic query optimization brings together the apparently separate research areas of query processing and database integrity The thesis formally defines transformations that preserve semantic equivalence for queries in the relational calculus In addition it identifies several classes of cost reducing query transformations for relational database queries and provides quantitative estimates of the improvements they can produce based upon widely accepted models of query processing The thesis also discusses the design and implementation of a system that carries out semantic query optimization for an important class of relational database queries      *Relational Database Query Optimization by Semantic Reasoning* Rakesh Govindlal Patel, 1990      Methodologies for Intelligent Systems Zbigniew Raàs, Maria Zemankova, 1991-09-25 This volume contains the papers selected for presentation at the Sixth International Symposium on Methodologies 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      Readings in Agents Michael N. Huhns, Munindar P. Singh, 1998 This book collects the most significant literature on agents in an attempt to 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      *ARPA/Rome Laboratory Knowledge-based Planning and Scheduling Initiative Workshop Proceedings, Tuscon, Arizona, February 21-24, 1994*, 1994      **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

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 Applications 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

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

**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

**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 Visegrád 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

**Conceptual Information Retrieval** Michael L. Mauldin, 2012-12-06 The information revolution is upon us Whereas the industrial revolution heralded the systematic augmentation of human physical limitations by harnessing external energy sources the information revolution strives to augment human memory and mental processing limitations by harnessing external computational resources Computers can accumulate transmit and output much more information and in a more timely fashion than more conventional printed or spoken media Of greater interest however is the computer's ability to process classify and retrieve information selectively in response to the needs of each human user One cannot drink from the fire hydrant of information 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 information sources that they may yield useful knowledge Information science is the study of systematic means to control classify process and retrieve vast amounts of information in electronic form In particular several methodologies have been developed to classify texts manually by armies of human indexers as illustrated quite clearly at the National Library of Medicine and many computational techniques have been developed to search textual data bases automatically such as full text keyword searches In general

**Scientific and Technical Aerospace Reports**, 1991 **Fundamentals of Data Warehouses** Matthias Jarke, Maurizio Lenzerini, Yannis Vassiliou, Panos Vassiliadis, 2013-03-09 Data warehouses have captured the attention of practitioners and researchers alike But the design and optimization of data warehouses remains an art rather than a science This book presents the first comparative review of the state of the art and best current practice of data warehouses It covers source and data integration multidimensional aggregation query optimization update propagation metadata management quality assessment and design optimization Also based on results of the European Data Warehouse Quality project it offers a conceptual framework by which the architecture and quality of data warehouse efforts can be assessed and improved using enriched metadata management combined with advanced techniques from databases business modeling and artificial intelligence For researchers and database professionals in academia and industry the book offers an excellent introduction to the issues of quality and metadata usage in the context of data warehouses

*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 opportunities 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

Advances in Knowledge Discovery and Data Mining Xintao Wu, Myra Spiliopoulou, Can Wang, Vipin Kumar, Longbing Cao, Yanqiu Wu, Yu Yao, Zhangkai Wu, 2025-06-19 The five volume set LNAI 158710 15874 constitutes the proceedings of the 29th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2025 held in Sydney New South Wales Australia during June 10 13 2025 The conference received a total of 557 submissions to the main track 35 submissions to the survey track and 104 submission to the special track on LLMs Of these 134 papers have been accepted for the main track 10 for the survey track and 24 for the LLM track 68 papers have been transferred to the 4 DSFA special session The papers have been organized in topical sections as follows Part I Anomaly Detection Business Data Analysis Clustering Continual Learning Contrastive Learning Data Processing for Learning Part II Fairness and Interpretability Federated Learning Graph Mining and GNN Learning on Scientific Data Part III Machine Learning Multi modality OOD and Optimization Recommender Systems Representation Learning and Generative AI Part IV Security and Privacy Temporal Learning Survey Part V LLM Fine tuning and Prompt Engineering Fairness and Interpretability of LLMs LLM Application OOD and Optimization of LLMs

**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

*The Functional Approach to Data Management* Peter M.D. Gray, Larry Kerschberg, Peter J.H. King, Alexandra Poulouvasilis, 2013-06-29 It is over 20 years since the functional data model and functional programming languages were first introduced to the computing community Although developed by separate research communities recent work presented in this book suggests there is powerful synergy in their integration As database technology emerges as central to yet more complex and demanding applications in areas such as bioinformatics national security criminal investigations and advanced engineering more sophisticated approaches like those presented here

are needed A tutorial introduction by the editors prepares the reader for the chapters that follow written by leading researchers including some of the early pioneers They provide a comprehensive treatment showing how the functional approach provides for modeling analysis and optimization in databases and also data integration and interoperability in heterogeneous environments Several chapters deal with mathematical results on the transformation of expressions fundamental to the functional approach The book also aims to show how the approach relates to the Internet and current work on semistructured data XML and RDF The book presents a comprehensive view of the functional approach to data management bringing together important material hitherto widely scattered some new research and a comprehensive set of references It will serve as a valuable resource for researchers faculty and graduate students as well as those in industry responsible for new systems development

**Knowledge Discovery from XML Documents** Richi Nayak, 2006-03-23 This book constitutes the refereed proceedings of the First International Workshop on Knowledge Discovery from XML Documents KDXD 2006 held in Singapore in conjunction with the 10th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2006 The ten revised full papers presented together with two invited talks were carefully reviewed and selected from 26 submissions The papers are organized in topical sections

**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

## Whispering the Techniques of Language: An Emotional Journey through **Query Optimization By Semantic Reasoning**

In a digitally-driven world where screens reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within phrases often go unheard. Yet, located within the pages of **Query Optimization By Semantic Reasoning** a interesting fictional value sporting with organic feelings, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, this marvelous opus invites readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles fabric of every word. Within the mental depths with this touching evaluation, we will embark upon a genuine exploration of the book is core themes, dissect its captivating publishing design, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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