

# MATERIALIZED VIEWS

TECHNIQUES, IMPLEMENTATIONS, AND APPLICATIONS

EDITED BY

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# Materialized Views Techniques Implementations And Applications

**Stephane Bressan, Josef K  ng, Roland  
Wagner**





## **Materialized Views Techniques Implementations And Applications:**

*Materialized Views* Ashish Gupta, Inderpal Singh Mumick, 1999 When an application is built an underlying data model is chosen to make that application effective Frequently other applications need the same data only modeled differently The naive solution of copying the underlying data and modeling is costly in terms of storage and makes data maintenance and evolution impossible View mechanisms are a technique to model data differently for various applications without affecting the underlying format and structure of the data The technique enables applications to customize shared data objects without affecting other applications that use the same objects The growing data manipulation needs of companies cannot be met by existing legacy systems that contain valuable data Thus view mechanisms are becoming increasingly important as a way to model and use legacy data in new applications Materialized views are views that have been computed and stored in databases Because they reduce the need to recompute the view and or data being queried they speed up the querying of large amounts of data Further because they provide a systematic way to describe how to recompute the data maintenance and evolution can be automated Materialized views are especially useful in data warehousing query optimization integrity constraint maintenance online analytical processing and applications such as billing banking and retailing This comprehensive volume with a foreword by Jeff Ullman of Stanford University will serve as a reference for students and commercial users and encourage further use and development of materialized views Web Technologies and Applications

Xiaofang Zhou, Maria E. Orlowska, 2003-04-07 This book constitutes the refereed proceedings of the 5th Asia Pacific Web Conference APWeb 2003 held in Xian China in April 2003 The 39 revised full papers and 16 short papers presented together with two invited papers were carefully reviewed and selected from a total of 136 submissions The papers are organized in topical sections on XML and database design efficient XML data management XML transformation Web mining Web clustering ranking and profiling payment and security Web application architectures advanced applications Web multimedia network protocols workflow management systems advanced search and data allocation and replication Advanced Information Systems Engineering Anne Banks Pidduck, John Mylopoulos, Carson C. Woo, M.T. Ozsu, 2003-08-01

The explosive growth of the Internet and the Web have created an ever growing demand for information systems and ever growing challenges for Information Systems Engineering The series of Conferences on Advanced Information Systems Engineering CAiSE was launched in Scandinavia by Janis Bubenko and Arne Solvberg in 1989 became an important European conference and was held annually in major European sites throughout the 1990s Now in its 14th year CAiSE was held for the first time outside Europe showcasing international research on information systems and their engineering Not surprisingly this year the conference enjoyed unprecedented attention In total the conference received 173 paper submissions the highest number ever for a CAiSE conference Of those 42 were accepted as regular papers and 26 as short poster papers In addition the conference received 12 proposals for workshops of which 8 were approved while 4 tutorials were selected from 15



submissions The technical program was put together by an international committee of 81 experts In total 505 reviews were submitted with every member of the committee contributing Decisions on all submissions were reached at a program committee meeting in Toronto on January 26 27 2002 Workshop and tutorial proposals were handled separately by committees chaired by Patrick Martin workshops and Jarek Gryz and Richard Paige tutorials We wish to extend a great THANK YOU to all members of the program and organizing committees for their volunteer contributions of time and expertise The fact that so many busy and famous people took the trouble to help us with the organization of this conference and the formation of its technical program speaks well for the future of CAiSE and the field of Information Systems Engineering

### **Readings in Database**

**Systems** Joseph M. Hellerstein, Michael Stonebraker, 2005 The latest edition of a popular text and reference on database research with substantial new material and revision covers classical literature and recent hot topics Lessons from database research have been applied in academic fields ranging from bioinformatics to next generation Internet architecture and in industrial uses including Web based e commerce and search engines The core ideas in the field have become increasingly influential This text provides both students and professionals with a grounding in database research and a technical context for understanding recent innovations in the field The readings included treat the most important issues in the database area the basic material for any DBMS professional This fourth edition has been substantially updated and revised with 21 of the 48 papers new to the edition four of them published for the first time Many of the sections have been newly organized and each section includes a new or substantially revised introduction that discusses the context motivation and controversies in a particular area placing it in the broader perspective of database research Two introductory articles never before published provide an organized current introduction to basic knowledge of the field one discusses the history of data models and query languages and the other offers an architectural overview of a database system The remaining articles range from the classical literature on database research to treatments of current hot topics including a paper on search engine architecture and a paper on application servers both written expressly for this edition The result is a collection of papers that are seminal and also accessible to a reader who has a basic familiarity with database systems

Advanced Web Technologies and Applications Jeffrey Xu Yu, Xuemin Lin, Hongjun Lu, Yanchun Zhang, 2004-04-05 The Asia Pacific region has emerged in recent years as one of the fastest growing regions in the world in the use of Web technologies as well as in making significant contributions to WWW research and development Since the first Asia Pacific Web conference in 1998 APWeb has continued to provide a forum for researchers professionals and industrial practitioners from around the world to share their rapidly evolving knowledge and to report new advances in WWW technologies and applications APWeb 2004 received an overwhelming 386 full paper submissions including 375 research papers and 11 industrial papers from 20 countries and regions Australia Canada China France Germany Greece HongKong India Iran Japan Korea Norway Singapore Spain Switzerland Taiwan Turkey UK USA and Vietnam Each submission was carefully reviewed by three members of the program



committee Among the 386 submitted papers 60 regular papers 24 short papers 15 poster papers and 3 industrial papers were selected to be included in the proceedings The selected papers cover a wide range of topics including Web services Web intelligence Web personalization Web query processing Web ching Web mining text mining data mining and knowledge discovery XML database and query processing work ow management E commerce data rehousing P2P systems and applications Grid computing and networking The paper entitled Towards Adaptive Probabilistic Search in Unstructured P2P stems co authored by Linhao Xu Chenyun Dai Wenyuan Cai Shuigeng Zhou and Aoying Zhou was awarded the best APWeb 2004 student paper

**Current Trends in Database Technology - EDBT 2006** Torsten Grust,2006-10-10 This book constitutes the thoroughly refereed joint post proceedings of nine workshops held as part of the 10th International Conference on Extending Database Technology EDBT 2006 held in Munich Germany in March 2006 The 70 revised full papers presented were selected from numerous submissions during two rounds of reviewing and revision

**Programming Languages and Systems** Pierpaolo Degano,2003-07-01 This book constitutes the refereed proceedings of the 12th European Symposium on Programming ESOP 2003 held in Warsaw Poland in April 2003 The 25 revised full papers presented together with two invited papers were carefully reviewed and selected from 99 submissions Among the topics addressed are programming paradigms and their integration program semantics calculi of computation security advanced type systems program analysis program transformation and practical algorithms based on theoretical developments

Data Mining Jiawei Han,Jian Pei,Hanghang Tong,2022-07-02 Data Mining Concepts and Techniques Fourth Edition introduces concepts principles and methods for mining patterns knowledge and models from various kinds of data for diverse applications Specifically it delves into the processes for uncovering patterns and knowledge from massive collections of data known as knowledge discovery from data or KDD It focuses on the feasibility usefulness effectiveness and scalability of data mining techniques for large data sets After an introduction to the concept of data mining the authors explain the methods for preprocessing characterizing and warehousing data They then partition the data mining methods into several major tasks introducing concepts and methods for mining frequent patterns associations and correlations for large data sets data classiffcation and model construction cluster analysis and outlier detection Concepts and methods for deep learning are systematically introduced as one chapter Finally the book covers the trends applications and research frontiers in data mining Presents a comprehensive new chapter on deep learning including improving training of deep learning models convolutional neural networks recurrent neural networks and graph neural networks Addresses advanced topics in one dedicated chapter data mining trends and research frontiers including mining rich data types text spatiotemporal data and graph networks data mining applications such as sentiment analysis truth discovery and information propagattion data mining methodologie and systems and data mining and society Provides a comprehensive practical look at the concepts and techniques needed to get the most out of your data Visit the author hosted companion site <https://hanj.cs.illinois.edu/bk4/> for



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Bressan,Josef Küng,Roland Wagner,2006-08-29 This book constitutes the refereed proceedings of the 17th International Conference on Database and Expert Systems Applications DEXA 2006 The book presents 90 revised full papers together with 1 invited paper The papers are organized in topical sections on XML data and information data mining and data warehouses database applications WWW bioinformatics process automation and workflow knowledge management and expert systems database theory query processing and privacy and security *Advances in Database Technology - EDBT 2006* Yannis Ioannidis,Marc H. Scholl,Joachim W. Schmidt,Florian Matthes,Mike Hatzopoulos,Klemens Boehm,Alfons Kemper,Torsten Grust,Christian Boehm,2006-03-10 This book constitutes the refereed proceedings of the 10th International Conference on Extending Database Technology EDBT 2006 held in Munich Germany in March 2006 The 60 revised research papers presented together with eight industrial application papers 20 software demos and three invited contributions were carefully reviewed and selected from 352 submissions The papers are organized in topical sections **Advances in Databases and Information Systems** Tadeusz Morzy,2009-08-28 This book constitutes the refereed proceedings of the 13th East European Conference on Advances in Databases and Information Systems ADBIS 2009 held in Riga Latvia on September 7 10 2009 The 25 revised papers were carefully reviewed and selected from 93 submissions Topically the papers span a wide spectrum of the database and information system Topics are ranging from query processing and optimization via query languages design methods data integration indexing and caching to business processes data mining and application oriented topics like XML and data on the Web *Journal on Data Semantics VIII* Stefano Spaccapietra,Paolo Atzeni,Francois Fages,Mohand-Said Hacid,Michael Kifer,John Mylopoulos,Barbara Pernici,Pavel Shvaiko,Ilya Zaihrayeu,2007-03-21 The LNCS Journal on Data Semantics is devoted to the presentation of notable work that in one way or another addresses research and development on issues related to data semantics The scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain specific applications of semantic knowledge *Enabling Real-Time Business Intelligence* Malu Castellanos,Umeshwar Dayal,Elke A. Rundensteiner,2013-08-21 This book constitutes the thoroughly refereed conference proceedings of the 6th International Workshop on Business Intelligence for the Real Time Enterprise BIRTE 2012 held in Istanbul Turkey in August 2012 in conjunction with VLDB 2012 the International Conference on Very Large Data Bases The BIRTE workshop series provides a forum to discuss and advance the science and engineering enabling real time business intelligence and the novel applications that build on these foundational techniques This volume contains ten research papers which were carefully reviewed and selected from 13 submissions *Data Mining: Concepts and Techniques* Jiawei Han,Micheline Kamber,Jian Pei,2011-06-09 Data Mining Concepts and Techniques provides the concepts and techniques in processing gathered data or information which will be used in various applications Specifically it explains data mining and the tools used in discovering knowledge from the collected data This book is referred as the knowledge discovery from data KDD It focuses on the feasibility usefulness effectiveness and scalability of techniques of large data sets After describing data



mining this edition explains the methods of knowing preprocessing processing and warehousing data It then presents information about data warehouses online analytical processing OLAP and data cube technology Then the methods involved in mining frequent patterns associations and correlations for large data sets are described The book details the methods for data classification and introduces the concepts and methods for data clustering The remaining chapters discuss the outlier detection and the trends applications and research frontiers in data mining This book is intended for Computer Science students application developers business professionals and researchers who seek information on data mining Presents dozens of algorithms and implementation examples all in pseudo code and suitable for use in real world large scale data mining projects Addresses advanced topics such as mining object relational databases spatial databases multimedia databases time series databases text databases the World Wide Web and applications in several fields Provides a comprehensive practical look at the concepts and techniques you need to get the most out of your data      **Description**

**Logic Rules** M. Krötzsch,2010-10-11 Ontological modelling today is applied in many areas of science and technology including the Semantic Web The W3C standard OWL defines one of the most important ontology languages based on the semantics of description logics An alternative is to use rule languages in knowledge modelling as proposed in the W3C s RIF standard So far it has often been unclear how to combine both technologies without sacrificing essential computational properties This book explains this problem and presents new solutions that have recently been proposed Extensive introductory chapters provide the necessary background for understanding the goals and challenges of this field whereas advanced chapters discuss novel solutions in full detail Enriched knowledge representation languages that are introduced include DL Rules Horn description logics and DL safe Rules In each of these cases emphasis is put on finding a favourable trade off between expressiveness and computational complexity This naturally leads to the light weight DL rule language ELP which illustrates that expressive ontological modelling and tractable inferencing can indeed go together Comprehensive references for further reading are provided throughout the book      *Data Management in Pervasive Systems* Francesco

Colace,Massimo De Santo,Vincenzo Moscato,Antonio Picariello,Fabio A. Schreiber,Letizia Tanca,2015-10-17 This book contributes to illustrating the methodological and technological issues of data management in Pervasive Systems by using the DataBenc project as the running case study for a variety of research contributions sensor data management user originated data operation and reasoning multimedia data management data analytics and reasoning for event detection and decision making context modelling and control automatic data and service tailoring for personalization and recommendation The book is organized into the following main parts i multimedia information management ii sensor data streams and storage iii social networks as information sources iv context awareness and personalization The case study is used throughout the book as a reference example      **Encyclopedia of Microcomputers** Allen Kent,James G. Williams,2001-06-20 Achieving

Synergy Between Computer Power and Human Resources to Temporal and Modal Logic Programming Languages



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