Database Systems

Sheet 2
(Query Processing)

Mahmoud Mohsen

Query Processing In Database Systems

W. Kim,D.S. Reiner,Don Batory

Query Processing In Database Systems:

Query Processing in Database Systems W. Kim,D.S. Reiner,Don Batory,2012-12-06 This book is an anthology of the results of research and development in database query processing during the past decade The relational model of data provided tremendous impetus for research into query processing Since a relational query does not specify access paths to the stored data the database management system DBMS must provide an intelligent query processing subsystem which will evaluate a number of potentially efficient strategies for processing the query and select the one that optimizes a given performance measure The degree of sophistication of this subsystem often called the optimizer critically affects the performance of the DBMS Research into query processing thus started has taken off in several directions during the past decade The emergence of research into distributed databases has enormously complicated the tasks of the optimizer In a distributed environment the database may be partitioned into horizontal or vertical fragments of relations Replicas of the fragments may be stored in different sites of a network and even migrate to other sites The measure of performance of a query in a distributed system must include the communication cost between sites To minimize communication costs for queries involving multiple relations across multiple sites optimizers may also have to consider semi join techniques

Principles of Database Query Processing for Advanced Applications Clement T. Yu,Weiyi Meng,1998 A thorough presentation of query processing techniques in a broad range of database systems for advanced applications Provides the most effective query processing techniques and ways to optimize the information retrieval process Intended for database systems designers creating advanced applications *Efficient adaptive query processing on large database systems available in the cloud environment* Clayton Maciel Costa,António Luís Pinto Ferreira de Sousa,2020-09-15 Nowadays many companies are migrating their applications and data to cloud service providers mainly because of their ability to answer quickly to business requirements Thereby the performance is an important requirement for most customers when they wish to migrate their applications to the cloud Therefore in cloud environments resources should be acquired and released automatically and quickly at runtime Moreover the users and service providers expect to get answers in time to ensure the service SLA Service Level Agreement Consequently ensuring the QoS Quality of Service is a great challenge and it increases when we have large amounts of data to be manipulated in this environment To resolve this kind of problems several researches have been focused on shorter execution time using adaptive query processing and or prediction of resources based on current system status However they present important limitations For example most of these works does not use monitoring during query execution and or presents intrusive solutions i e applied to the particular context The aim of this book is to present the development of new solutions strategies to efficient adaptive query processing on large databases available in a cloud environment It must integrate adaptive re optimization at query runtime and their costs are based on the SRT Service Response Time SLA QoS performance parameter Finally the proposed solution will be evaluated on large scale

with large volume of data machines and queries in a cloud computing infrastructure Finally this work also proposes a new model to estimate the SRT for different request types database access requests This model will allow the cloud service provider and its customers to establish an appropriate SLA relative to the expected performance of the services available in the cloud   *Introduction to Database Systems* Itl Education Solutions Limited,2010-09   **Efficient Query Processing in Geographic Information Systems** Beng Chin Ooi,1990-11-28 Very Good No Highlights or Markup all pages are intact

Adaptive Query Processing Amol Deshpande,Zachary Ives,Vijayshankar Raman,2007 Adaptive Query Processing surveys the fundamental issues techniques costs and benefits of adaptive query processing It begins with a broad overview of the field identifying the dimensions of adaptive techniques It then looks at the spectrum of approaches available to adapt query execution at runtime primarily in a non streaming context The emphasis is on simplifying and abstracting the key concepts of each technique rather than reproducing the full details available in the papers The authors identify the strengths and limitations of the different techniques demonstrate when they are most useful and suggest possible avenues of future research Adaptive Query Processing serves as a valuable reference for students of databases providing a thorough survey of the area Database researchers will benefit from a more complete point of view including a number of approaches which they may not have focused on within the scope of their own research   *Distributed Database Systems* Chhanda Ray,Ray,2009 Distributed Database Systems discusses the recent and emerging technologies in the field of distributed database technology The material is up to date highly readable and illustrated with numerous practical examples The mainstream areas of distributed database technology such as distributed database design distributed DBMS architectures distributed transaction management distributed concurrency control deadlock handling in distributed systems distributed recovery management distributed query processing and optimization data security and catalog management have been covered in detail The popular distributed database systems SDD 1 and R have also been included   *Query Processing in Parallel Relational Database Systems* Hongjun Lu,Beng Chin Ooi,Kian-Lee Tan,1994 Provides readers with a background knowledge of parallel database query processing and optimization and covers recent developments in the field Subjects include design approaches architecture of parallel database systems parallel sorting parallel processing of join data skew and load balancing

Fundamentals of Relational Database Management Systems S. Sumathi,S. Esakkirajan,2007-02-13 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   **Data Management and Query Processing in Semantic Web Databases** Sven Groppe,2011-04-29 The Semantic Web which is intended to establish a machine understandable Web is currently changing from being an emerging trend to a technology used in complex real world applications A number of

standards and techniques have been developed by the World Wide Web Consortium W3C e g the Resource Description Framework RDF which provides a general method for conceptual descriptions for Web resources and SPARQL an RDF querying language Recent examples of large RDF data with billions of facts include the UniProt comprehensive catalog of protein sequence function and annotation data the RDF data extracted from Wikipedia and Princeton University s WordNet Clearly querying performance has become a key issue for Semantic Web applications In his book Groppe details various aspects of high performance Semantic Web data management and query processing His presentation fills the gap between Semantic Web and database books which either fail to take into account the performance issues of large scale data management or fail to exploit the special properties of Semantic Web data models and queries After a general introduction to the relevant Semantic Web standards he presents specialized indexing and sorting algorithms adapted approaches for logical and physical query optimization optimization possibilities when using the parallel database technologies of today s multicore processors and visual and embedded query languages Groppe primarily targets researchers students and developers of large scale Semantic Web applications On the complementary book webpage readers will find additional material such as an online demonstration of a query engine and exercises and their solutions that challenge their comprehension of the topics presented

    <u>Handbook of Research on Innovative Database Query Processing Techniques</u> Yan, Li,2015-09-25 Research and development surrounding the use of data queries is receiving increased attention from computer scientists and data specialists alike Through the use of query technology large volumes of data in databases can be retrieved and information systems built based on databases can support problem solving and decision making across industries The Handbook of Research on Innovative Database Query Processing Techniques focuses on the growing topic of database query processing methods technologies and applications Aimed at providing an all inclusive reference source of technologies and practices in advanced database query systems this book investigates various techniques including database and XML queries spatiotemporal data queries big data queries metadata queries and applications of database query systems This comprehensive handbook is a necessary resource for students IT professionals data analysts and academicians interested in uncovering the latest methods for using queries as a means to extract information from databases This all inclusive handbook includes the latest research on topics pertaining to information retrieval data extraction data management design and development of database queries and database and XM queries   *Ontology-Based Query Processing for Global Information Systems* Eduardo Mena,Arantza Illarramendi,2012-12-06 This work is a revision of the doctoral dissertation of Eduardo Mena pre sented to the Department of Computer Science and System Engineering at the University of Zaragoza Spain in November 1998 Mena 98 The OBSERVER system was developed as a result of this Ph D thesis This book is composed of eight chapters In Chapter 1 we introduce our rationale for writing a book about systems that process queries in global information systems Then in Chapter 2 we review the techno logical context for our work including distributed and heterogeneous environments

and the use of ontologies We also compare related work to our own Chapter 3 presents our proposed global system architecture for query processing in global information systems The main modules in the architecture and the main steps given to process a query are briefly introduced Chapters 4 through 7 provide a detailed description of each query processing step In Chapter 4 we detail the steps needed to access the data corre sponding to a query formulated over an ontology All the aspects related to distribution structural and semantic heterogeneity and restricted query capabilities of the underlying data repositories are considered in this chapter The main features of the mapping information that relates ontologies and data repositories are also described Finally we show the process of generating appropriate plans to access each involved reposi tory and the correlation of the answers coming from different reposito ries **Principles of Distributed Database Systems** M. Tamer Özsu,Patrick Valduriez,2011-02-24 This third edition of a classic textbook can be used to teach at the senior undergraduate and graduate levels The material concentrates on fundamental theories as well as techniques and algorithms The advent of the Internet and the World Wide Web and more recently the emergence of cloud computing and streaming data applications has forced a renewal of interest in distributed and parallel data management while at the same time requiring a rethinking of some of the traditional techniques This book covers the breadth and depth of this re emerging field The coverage consists of two parts The first part discusses the fundamental principles of distributed data management and includes distribution design data integration distributed query processing and optimization distributed transaction management and replication The second part focuses on more advanced topics and includes discussion of parallel database systems distributed object management peer to peer data management web data management data stream systems and cloud computing New in this Edition New chapters covering database replication database integration multidatabase query processing peer to peer data management and web data management Coverage of emerging topics such as data streams and cloud computing Extensive revisions and updates based on years of class testing and feedback Ancillary teaching materials are available **Query Processing over Incomplete Databases** Yunjun Gao,Xiaoye Miao,2022-06-01 Incomplete data is part of life and almost all areas of scientific studies Users tend to skip certain fields when they fill out online forms participants choose to ignore sensitive questions on surveys sensors fail resulting in the loss of certain readings publicly viewable satellite map services have missing data in many mobile applications and in privacy preserving applications the data is incomplete deliberately in order to preserve the sensitivity of some attribute values Query processing is a fundamental problem in computer science and is useful in a variety of applications In this book we mostly focus on the query processing over incomplete databases which involves finding a set of qualified objects from a specified incomplete dataset in order to support a wide spectrum of real life applications We first elaborate the three general kinds of methods of handling incomplete data including i discarding the data with missing values ii imputation for the missing values and iii just depending on the observed data values For the third method type we introduce the semantics of k nearest neighbor kNN search skyline

query and top k dominating query on incomplete data respectively In terms of the three representative queries over incomplete data we investigate some advanced techniques to process incomplete data queries including indexing pruning as well as crowdsourcing techniques **Visual Database Systems 3** Stefano Spaccapietra,Ramesh Jain,2013-06-05 Both the way we look at data through a DBMS and the nature of data we ask a DBMS to manage have drastically evolved over the last decade moving from text to images and to sound to a lesser extent Visual representations are used extensively within new user interfaces Powerful visual approaches are being experimented for data manipulation including the investigation of three dimensional display techniques Similarly sophisticated data visualization techniques are dramatically improving the understanding of the information extracted from a database On the other hand more and more applications use images as basic data or to enhance the quality and richness of data manipulation services Image management has opened a wide area of new research topics in image understanding and analysis The IFIP 2 6 Working Group on Databases strongly believes that a significant mutual enrichment is possible by confronting ideas concepts and techniques supporting the work of researcher and practitioners in the two areas of visual interfaces to DBMS and DBMS management of visual data For this reason IFIP 2 6 has launched a series of conferences on Visual Database Systems The first one has been held in Tokyo 1989 VDB 2 was held in Budapest 1991 This conference is the third in the series As the preceding editions the conference addresses researchers and practitioners active or interested in user interfaces human computer communication knowledge representation and management image processing and understanding multimedia database techniques and computer vision

RDF Database Systems Olivier Curé,Guillaume Blin,2014-11-24 RDF Database Systems is a cutting edge guide that distills everything you need to know to effectively use or design an RDF database This book starts with the basics of linked open data and covers the most recent research practice and technologies to help you leverage semantic technology With an approach that combines technical detail with theoretical background this book shows how to design and develop semantic web applications data models indexing and query processing solutions Understand the Semantic Web RDF RDFS SPARQL and OWL within the context of relational database management and NoSQL systems Learn about the prevailing RDF triples solutions for both relational and non relational databases including column family document graph and NoSQL Implement systems using RDF data with helpful guidelines and various storage solutions for RDF Process SPARQL queries with detailed explanations of query optimization query plans caching and more Evaluate which approaches and systems to use when developing Semantic Web applications with a helpful description of commercial and open source systems **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   Database Systems S. K. Singh,2011 The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application It progresses gradually from basic to advance concepts in database management systems with numerous solved exercises to make learning easier and interesting New to this edition are discussions on more commercial database management systems   **Database Systems For Advanced Applications '95 - Proceedings Of The Fourth International Conference** Wang Ling Tok,Yoshifumi Masunaga,1995-03-31 This volume contains three keynote papers and 51 technical papers from contributors around the world on topics in the research and development of database systems such as Data Modelling Object Oriented Databases Active Databases Data Mining Heterogeneous Databases Distributed Databases Parallel Query Processing Multi Media Databases Transaction Management Systems Document Databases Temporal Databases Deductive Databases User Interface and Advanced Database Applications   Peer-to-Peer Query Processing over Multidimensional Data Akrivi Vlachou,Christos Doulkeridis,Kjetil Nørvåg,Yannis Kotidis,2012-04-13 Applications that require a high degree of distribution and loosely coupled connectivity are ubiquitous in various domains including scientific databases bioinformatics and multimedia retrieval In all these applications data is typically voluminous and multidimensional and support for advanced query operators is required for effective querying and efficient processing To address this challenge we adopt a hybrid P2P architecture and propose novel indexing and query processing algorithms We present a scalable framework that relies on data summaries that are distributed and maintained as multidimensional routing indices Different types of data summaries enable efficient processing of a variety of advanced query operators

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Query Processing In Database Systems**

In a world inundated with displays and the cacophony of immediate communication, the profound power and psychological resonance of verbal beauty often fade in to obscurity, eclipsed by the continuous assault of noise and distractions. However, located within the musical pages of **Query Processing In Database Systems**, a interesting perform of literary elegance that impulses with fresh emotions, lies an unique journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that enchanting opus guides visitors on a psychological odyssey, gently revealing the latent potential and profound influence embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main styles, dissect their fascinating writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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