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Data Stream Management

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SYNTHESIS LECTURES ON DATA MANAGEMENT

M. Tamer Özsu, *Series Editor*

Data Stream Management Synthesis Lectures On Data Management

Weiyi Meng, Clement Yu



Data Stream Management Synthesis Lectures On Data Management:

Data Stream Management Lukasz Golab,M. Tamer Ozsu,2022-06-01 Many applications process high volumes of streaming data among them Internet traffic analysis financial tickers and transaction log mining In general a data stream is an unbounded data set that is produced incrementally over time rather than being available in full before its processing begins In this lecture we give an overview of recent research in stream processing ranging from answering simple queries on high speed streams to loading real time data feeds into a streaming warehouse for off line analysis We will discuss two types of systems for end to end stream processing Data Stream Management Systems DSMSs and Streaming Data Warehouses SDWs A traditional database management system typically processes a stream of ad hoc queries over relatively static data In contrast a DSMS evaluates static long running queries on streaming data making a single pass over the data and using limited working memory In the first part of this lecture we will discuss research problems in DSMSs such as continuous query languages non blocking query operators that continually react to new data and continuous query optimization The second part covers SDWs which combine the real time response of a DSMS by loading new data as soon as they arrive with a data warehouse s ability to manage Terabytes of historical data on secondary storage Table of Contents Introduction Data Stream Management Systems Streaming Data Warehouses Conclusions

Data Stream Management Lukasz Golab,M. Tamer Özsu,2010 Offers an overview of recent research in stream processing ranging from answering simple queries on high speed streams to loading real time data feeds into a streaming warehouse for off line analysis The book discusses two types of systems for end to end stream processing Data Stream Management Systems DSMSs and Streaming Data Warehouses SDWs Handbook of Data Quality Shazia Sadiq,2013-08-13 The issue of data quality is as old as data itself However the proliferation of diverse large scale and often publically available data on the Web has increased the risk of poor data quality and misleading data interpretations On the other hand data is now exposed at a much more strategic level e g through business intelligence systems increasing manifold the stakes involved for individuals corporations as well as government agencies There the lack of knowledge about data accuracy currency or completeness can have erroneous and even catastrophic results With these changes traditional approaches to data management in general and data quality control specifically are challenged There is an evident need to incorporate data quality considerations into the whole data cycle encompassing managerial governance as well as technical aspects Data quality experts from research and industry agree that a unified framework for data quality management should bring together organizational architectural and computational approaches Accordingly Sadiq structured this handbook in four parts Part I is on organizational solutions i e the development of data quality objectives for the organization and the development of strategies to establish roles processes policies and standards required to manage and ensure data quality Part II on architectural solutions covers the technology landscape required to deploy developed data quality management processes standards and policies Part III on computational solutions

presents effective and efficient tools and techniques related to record linkage lineage and provenance data uncertainty and advanced integrity constraints Finally Part IV is devoted to case studies of successful data quality initiatives that highlight the various aspects of data quality in action The individual chapters present both an overview of the respective topic in terms of historical research and or practice and state of the art as well as specific techniques methodologies and frameworks developed by the individual contributors Researchers and students of computer science information systems or business management as well as data professionals and practitioners will benefit most from this handbook by not only focusing on the various sections relevant to their research area or particular practical work but by also studying chapters that they may initially consider not to be directly relevant to them as there they will learn about new perspectives and approaches

Advanced Metasearch Engine Technology Weiyi Meng,Clement Yu,2022-05-31 Among the search tools currently on the Web search engines are the most well known thanks to the popularity of major search engines such as Google and Yahoo While extremely successful these major search engines do have serious limitations This book introduces large scale metasearch engine technology which has the potential to overcome the limitations of the major search engines Essentially a metasearch engine is a search system that supports unified access to multiple existing search engines by passing the queries it receives to its component search engines and aggregating the returned results into a single ranked list A large scale metasearch engine has thousands or more component search engines While metasearch engines were initially motivated by their ability to combine the search coverage of multiple search engines there are also other benefits such as the potential to obtain better and fresher results and to reach the Deep Web The following major components of large scale metasearch engines will be discussed in detail in this book search engine selection search engine incorporation and result merging Highly scalable and automated solutions for these components are emphasized The authors make a strong case for the viability of the large scale metasearch engine technology as a competitive technology for Web search Table of Contents Introduction Metasearch Engine Architecture Search Engine Selection Search Engine Incorporation Result Merging Summary and Future Research

Fundamentals of Object Databases Suzanne Dietrich,Susan Urban,2022-05-31 Object oriented databases were originally developed as an alternative to relational database technology for the representation storage and access of non traditional data forms that were increasingly found in advanced applications of database technology After much debate regarding object oriented versus relational database technology object oriented extensions were eventually incorporated into relational technology to create object relational databases Both object oriented databases and object relational databases collectively known as object databases provide inherent support for object features such as object identity classes inheritance hierarchies and associations between classes using object references This monograph presents the fundamentals of object databases with a specific focus on conceptual modeling of object database designs After an introduction to the fundamental concepts of object oriented data the monograph provides a review of object oriented

conceptual modeling techniques using side by side Enhanced Entity Relationship diagrams and Unified Modeling Language conceptual class diagrams that feature class hierarchies with specialization constraints and object associations These object oriented conceptual models provide the basis for introducing case studies that illustrate the use of object features within the design of object oriented and object relational databases For the object oriented database perspective the Object Data Management Group data definition language provides a portable language independent specification of an object schema together with an SQL like object query language LINQ Language INTeGrated Query is presented as a case study of an object query language together with its use in the db4o open source object oriented database For the object relational perspective the object relational features of the SQL standard are presented together with an accompanying case study of the object relational features of Oracle For completeness of coverage an appendix provides a mapping of object oriented conceptual designs to the relational model and its associated constraints Table of Contents List of Figures List of Tables Introduction to Object Databases Object Oriented Databases Object Relational Databases **Database Replication** Bettina

Kemme,Ricardo Jimenez-Peris,Marta Patino-Martinez,2022-05-31 Database replication is widely used for fault tolerance scalability and performance The failure of one database replica does not stop the system from working as available replicas can take over the tasks of the failed replica Scalability can be achieved by distributing the load across all replicas and adding new replicas should the load increase Finally database replication can provide fast local access even if clients are geographically distributed clients if data copies are located close to clients Despite its advantages replication is not a straightforward technique to apply and there are many hurdles to overcome At the forefront is replica control assuring that data copies remain consistent when updates occur There exist many alternatives in regard to where updates can occur and when changes are propagated to data copies how changes are applied where the replication tool is located etc A particular challenge is to combine replica control with transaction management as it requires several operations to be treated as a single logical unit and it provides atomicity consistency isolation and durability across the replicated system The book provides a categorization of replica control mechanisms presents several replica and concurrency control mechanisms in detail and discusses many of the issues that arise when such solutions need to be implemented within or on top of relational database systems Furthermore the book presents the tasks that are needed to build a fault tolerant replication solution provides an overview of load balancing strategies that allow load to be equally distributed across all replicas and introduces the concept of self provisioning that allows the replicated system to dynamically decide on the number of replicas that are needed to handle the current load As performance evaluation is a crucial aspect when developing a replication tool the book presents an analytical model of the scalability potential of various replication solution For readers that are only interested in getting a good overview of the challenges of database replication and the general mechanisms of how to implement replication solutions we recommend to read Chapters 1 to 4 For readers that want to get a more complete picture and a

discussion of advanced issues we further recommend the Chapters 5 8 9 and 10 Finally Chapters 6 and 7 are of interest for those who want get familiar with thorough algorithm design and correctness reasoning Table of Contents Overview 1 Copy Equivalence and Consistency Basic Protocols Replication Architecture The Scalability of Replication Eager Replication and 1 Copy Serializability 1 Copy Snapshot Isolation Lazy Replication Self Configuration and Elasticity Other Aspects of Replication

User-Centered Data Management Tiziana Catarci, Alan Dix, Stephen Kimani, Giuseppe Santucci, 2022-05-31 This lecture covers several core issues in user centered data management including how to design usable interfaces that suitably support database tasks and relevant approaches to visual querying information visualization and visual data mining Novel interaction paradigms e g mobile and interfaces that go beyond the visual dimension are also discussed Table of Contents Why User Centered The Early Days Visual Query Systems Beyond Querying More Advanced Applications Non Visual Interfaces Conclusions

Data-Intensive Workflow Management Daniel C. M. de Oliveira, Ji Liu, Esther Pacitti, 2022-06-01 Workflows may be defined as abstractions used to model the coherent flow of activities in the context of an in silico scientific experiment They are employed in many domains of science such as bioinformatics astronomy and engineering Such workflows usually present a considerable number of activities and activations i e tasks associated with activities and may need a long time for execution Due to the continuous need to store and process data efficiently making them data intensive workflows high performance computing environments allied to parallelization techniques are used to run these workflows At the beginning of the 2010s cloud technologies emerged as a promising environment to run scientific workflows By using clouds scientists have expanded beyond single parallel computers to hundreds or even thousands of virtual machines More recently Data Intensive Scalable Computing DISC frameworks e g Apache Spark and Hadoop and environments emerged and are being used to execute data intensive workflows DISC environments are composed of processors and disks in large commodity computing clusters connected using high speed communications switches and networks The main advantage of DISC frameworks is that they support and grant efficient in memory data management for large scale applications such as data intensive workflows However the execution of workflows in cloud and DISC environments raise many challenges such as scheduling workflow activities and activations managing produced data collecting provenance data etc Several existing approaches deal with the challenges mentioned earlier This way there is a real need for understanding how to manage these workflows and various big data platforms that have been developed and introduced As such this book can help researchers understand how linking workflow management with Data Intensive Scalable Computing can help in understanding and analyzing scientific big data In this book we aim to identify and distill the body of work on workflow management in clouds and DISC environments We start by discussing the basic principles of data intensive scientific workflows Next we present two workflows that are executed in a single site and multi site clouds taking advantage of provenance Afterward we go towards workflow management in DISC environments and we present in detail solutions that enable the optimized execution of the workflow using frameworks such

as Apache Spark and its extensions

Advanced Data Management Lena Wiese, 2015-10-29 Advanced data management has always been at the core of efficient database and information systems. Recent trends like big data and cloud computing have aggravated the need for sophisticated and flexible data storage and processing solutions. This book provides a comprehensive coverage of the principles of data management developed in the last decades with a focus on data structures and query languages. It treats a wealth of different data models and surveys the foundations of structuring, processing, storing, and querying data according to these models. Starting off with the topic of database design, it further discusses weaknesses of the relational data model and then proceeds to convey the basics of graph data, tree-structured XML data, key-value pairs, and nested semi-structured JSON data, columnar and record-oriented data, as well as object-oriented data. The final chapters round the book off with an analysis of fragmentation, replication, and consistency strategies for data management in distributed databases, as well as recommendations for handling polyglot persistence in multi-model databases and multi-database architectures. While primarily geared towards students of Master-level courses in Computer Science and related areas, this book may also be of benefit to practitioners looking for a reference book on data modeling and query processing. It provides both theoretical depth and a concise treatment of open-source technologies currently on the market.

Perspectives on Business Intelligence Raymond T. Ng, Patricia C. Arocena, Denilson Barbosa, Giuseppe Carenini, Luiz Gomes, Stephan Jou, Anthony Leung, Evangelos Milios, Renée J. Miller, John Mylopoulos, Rachel A. Pottinger, Frank Tompa, Eric Yu, 2022-05-31 In the 1980s, traditional Business Intelligence (BI) systems focused on the delivery of reports that describe the state of business activities in the past, such as for questions like "How did our sales perform during the last quarter?" A decade later, there was a shift to more interactive content that presented how the business was performing at the present time, answering questions like "How are we doing right now?" Today, the focus of BI users is looking into the future. Given what I did before and how I am currently doing this quarter, how will I do next quarter? Furthermore, fuelled by the demands of Big Data, BI systems are going through a time of incredible change. Predictive analytics, high-volume data, unstructured data, social data, mobile, consumable analytics, and data visualization are all examples of demands and capabilities that have become critical within just the past few years and are growing at an unprecedented pace. This book introduces research problems and solutions on various aspects central to next-generation BI systems. It begins with a chapter on an industry perspective on how BI has evolved and discusses how game-changing trends have drastically reshaped the landscape of BI. One of the game changers is the shift toward the consumerization of BI tools. As a result, for BI tools to be successfully used by business users rather than IT departments, the tools need a business model rather than a data model. One chapter of the book surveys four different types of business modeling. However, even with the existence of a business model for users to express queries, the data that can meet the needs are still captured within a data model. The next chapter on vivification addresses the problem of closing the gap, which is often significant, between the business and the data models. Moreover, Big Data forces BI systems to

integrate and consolidate multiple and often wildly different data sources One chapter gives an overview of several integration architectures for dealing with the challenges that need to be overcome While the book so far focuses on the usual structured relational data the remaining chapters turn to unstructured data an ever increasing and important component of Big Data One chapter on information extraction describes methods for dealing with the extraction of relations from free text and the web Finally BI users need tools to visualize and interpret new and complex types of information in a way that is compelling intuitive but accurate The last chapter gives an overview of information visualization for decision support and text

Data Stream Management Synthesis Lectures On Data Management Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Data Stream Management Synthesis Lectures On Data Management**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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