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Data Stream Management

Lukasz Golab
M. Tamer Özsu

SYNTHESIS LECTURES ON DATA MANAGEMENT

M. Tamer Özsu, *Series Editor*

Data Stream Management Synthesis Lectures On Data Management

Ian Pickup



Data Stream Management Synthesis Lectures On Data Management:

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 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 **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 **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 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

Big Data Analytics Anirban Mondal,Himanshu Gupta,Jaideep Srivastava,P. Krishna Reddy,D.V.L.N. Somayajulu,2018-12-11 This book constitutes the refereed proceedings of the 6th International Conference on Big Data analytics BDA 2018 held in Warangal India in December 2018 The 29 papers presented in this volume were carefully reviewed and selected from 93 submissions The papers are organized in topical sections named big data analytics vision and perspectives financial data analytics and data streams web and social media data big data systems and frameworks predictive analytics in healthcare and agricultural domains and machine learning and pattern mining

Enterprise Big Data Engineering, Analytics, and Management Atzmueller, Martin,Oussena, Samia,Roth-Berghofer, Thomas,2016-06-01 The significance of big data can be observed in any decision making process as it is often used for forecasting and predictive analytics Additionally big data can be used to build a holistic view of an enterprise through a collection and analysis of large data sets retrospectively As the data deluge deepens new methods for analyzing comprehending and making use of big data become necessary Enterprise Big Data Engineering Analytics and Management presents novel methodologies and practical approaches to engineering managing and analyzing large scale data sets with a focus on enterprise applications and implementation Featuring essential big data concepts including data mining artificial intelligence and information extraction this publication provides a platform for retargeting the current research available in the field Data analysts IT professionals researchers and graduate level students will find the timely research presented in this publication essential to furthering their knowledge in the field

Relational and XML Data Exchange Marcelo Arenas,Pablo Barcelo,Leonid Libkin,Filip Murlak,2022-05-31 Data exchange is the problem of finding an instance of a target schema given an instance of a source schema and a specification of the relationship between the source and the target Such a target instance should correctly represent information from the source instance under the constraints imposed by the target schema and it should allow one to evaluate queries on the target instance in a way that is semantically consistent with the source data Data exchange is an old problem that re emerged as an active research topic recently due to the increased need for exchange of data in various formats often in e business applications In this lecture we give an overview of the basic concepts of data exchange in both relational and XML contexts We give examples of data exchange problems and we introduce the main tasks that need to be addressed We then discuss relational data exchange concentrating on issues such as relational schema mappings materializing target instances including canonical solutions and cores query answering and query rewriting After that we discuss metadata management i e handling schema mappings

themselves We pay particular attention to operations on schema mappings such as composition and inverse Finally we describe both data exchange and metadata management in the context of XML We use mappings based on transforming tree patterns and we show that they lead to a host of new problems that did not arise in the relational case but they need to be addressed for XML These include consistency issues for mappings and schemas as well as imposing tighter restrictions on mappings and queries to achieve tractable query answering in data exchange

Table of Contents Overview Relational Mappings and Data Exchange Metadata Management XML Mappings and Data Exchange Data Stream Management

Minos Garofalakis,Johannes Gehrke,Rajeev Rastogi,2016-07-11 This volume focuses on the theory and practice of data stream management and the novel challenges this emerging domain poses for data management algorithms systems and applications The collection of chapters contributed by authorities in the field offers a comprehensive introduction to both the algorithmic theoretical foundations of data streams as well as the streaming systems and applications built in different domains A short introductory chapter provides a brief summary of some basic data streaming concepts and models and discusses the key elements of a generic stream query processing architecture Subsequently Part I focuses on basic streaming algorithms for some key analytics functions e g quantiles norms join aggregates heavy hitters over streaming data Part II then examines important techniques for basic stream mining tasks e g clustering classification frequent itemsets Part III discusses a number of advanced topics on stream processing algorithms and Part IV focuses on system and language aspects of data stream processing with surveys of influential system prototypes and language designs Part V then presents some representative applications of streaming techniques in different domains e g network management financial analytics Finally the volume concludes with an overview of current data streaming products and new application domains e g cloud computing big data analytics and complex event processing and a discussion of future directions in this exciting field The book provides a comprehensive overview of core concepts and technological foundations as well as various systems and applications and is of particular interest to students lecturers and researchers in the area of data stream management

The U.S. JGOFS Synthesis and Modeling Project ,2006 **Documentation Abstracts** ,1992 **Library & Information Science Abstracts** ,2006 **Real-Time & Stream Data Management** Wolfram Wingerath,Norbert Ritter,Felix Gessert,2019-01-02 While traditional databases excel at complex queries over historical data they are inherently pull based and therefore ill equipped to push new information to clients Systems for data stream management and processing on the other hand are natively pushoriented and thus facilitate reactive behavior However they do not retain data indefinitely and are therefore not able to answer historical queries The book provides an overview over the different push based mechanisms for data retrieval in each system class and the semantic differences between them It also provides a comprehensive overview over the current state of the art in real time databases It sfirst includes an in depth system survey of today s real time databases Firebase Meteor RethinkDB Parse Baqend and others Second the high level classification scheme illustrated above provides a gentle

introduction into the system space of data management Abstracting from the extreme system diversity in this field it helps readers build a mental model of the available options Optimal Knowledge Management Robert J. Thierauf, James J. Hocht, 2006 This book outlines a new way of approaching the development and implementation of information systems Not only does the book explore a different approach to determining an organization's opportunities and solving its problems but it also highlights methods for optimal decision making Provided by publisher *Proceedings of the ... International Computer Music Conference*, 1985 **Chemical Abstracts**, 2002 *Microcomputer Programs for Chemical Engineers* David J. Deutsch, 1984 **Management Services**, 1970 *Current Index to Journals in Education*, 1987 **Bell Laboratories Talks and Papers** Bell Telephone Laboratories. Libraries and Information Systems Center, 1982 University of Minnesota Bulletin Minnesota. University, 1905

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