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Business Processes

A Database Perspective

Daniel Deutch
Tova Milo

SYNTHESIS LECTURES ON DATA MANAGEMENT

M. Tamer Özsu, *Series Editor*

Business Processes A Database Perspective Tova Milo

Shouhong Wang, Hai Wang



Business Processes A Database Perspective Tova Milo:

Business Processes Tova Milo, Daniel Deutsch, 2022-06-01 While classic data management focuses on the data itself research on Business Processes also considers the context in which this data is generated and manipulated namely the processes users and goals that this data serves This provides the analysts a better perspective of the organizational needs centered around the data As such this research is of fundamental importance Much of the success of database systems in the last decade is due to the beauty and elegance of the relational model and its declarative query languages combined with a rich spectrum of underlying evaluation and optimization techniques and efficient implementations Much like the case for traditional database research elegant modeling and rich underlying technology are likely to be highly beneficiary for the Business Process owners and their users both can benefit from easy formulation and analysis of the processes While there have been many important advances in this research in recent years there is still much to be desired specifically there have been many works that focus on the processes behavior flow and many that focus on its data but only very few works have dealt with both the state of the art in a database approach to Business Process modeling and analysis the progress towards a holistic flow and data framework for these tasks and highlight the current gaps and research directions Table of Contents Introduction Modeling Querying Business Processes Other Issues Conclusion

Data Management in Machine Learning Systems Matthias Boehm, Arun Kumar, Jun Yang, 2022-05-31 Large scale data analytics using machine learning ML underpins many modern data driven applications ML systems provide means of specifying and executing these ML workloads in an efficient and scalable manner Data management is at the heart of many ML systems due to data driven application characteristics data centric workload characteristics and system architectures inspired by classical data management techniques In this book we follow this data centric view of ML systems and aim to provide a comprehensive overview of data management in ML systems for the end to end data science or ML lifecycle We review multiple interconnected lines of work 1 ML support in database DB systems 2 DB inspired ML systems and 3 ML lifecycle systems Covered topics include in database analytics via query generation and user defined functions factorized and statistical relational learning optimizing compilers for ML workloads execution strategies and hardware accelerators data access methods such as compression partitioning and indexing resource elasticity and cloud markets as well as systems for data preparation for ML model selection model management model debugging and model serving Given the rapidly evolving field we strive for a balance between an up to date survey of ML systems an overview of the underlying concepts and techniques as well as pointers to open research questions Hence this book might serve as a starting point for both systems researchers and developers

Generating Plans from Proofs Michael Benedikt, Julien Leblay, Balder ten Cate, Efthymia Tsamoura, 2016-03-15 Query reformulation refers to a process of translating a source query a request for information in some high level logic based language into a target plan that abides by certain interface restrictions Many practical problems in data management can be

seen as instances of the reformulation problem For example the problem of translating an SQL query written over a set of base tables into another query written over a set of views the problem of implementing a query via translating to a program calling a set of database APIs the problem of implementing a query using a collection of web services In this book we approach query reformulation in a very general setting that encompasses all the problems above by relating it to a line of research within mathematical logic For many decades logicians have looked at the problem of converting implicit definitions into explicit definitions using an approach known as interpolation We will review the theory of interpolation and explain its close connection with query reformulation We will give a detailed look at how the interpolation based approach is used to generate translations between logic based queries over different vocabularies and also how it can be used to go from logic based queries to programs

Scalable Processing of Spatial-Keyword Queries Ahmed R. Mahmood, Walid G.

Aref, 2022-05-31 Text data that is associated with location data has become ubiquitous A tweet is an example of this type of data where the text in a tweet is associated with the location where the tweet has been issued We use the term spatial keyword data to refer to this type of data Spatial keyword data is being generated at massive scale Almost all online transactions have an associated spatial trace The spatial trace is derived from GPS coordinates IP addresses or cell phone tower locations Hundreds of millions or even billions of spatial keyword objects are being generated daily Spatial keyword data has numerous applications that require efficient processing and management of massive amounts of spatial keyword data This book starts by overviewing some important applications of spatial keyword data and demonstrates the scale at which spatial keyword data is being generated Then it formalizes and classifies the various types of queries that execute over spatial keyword data Next it discusses important and desirable properties of spatial keyword query languages that are needed to express queries over spatial keyword data As will be illustrated existing spatial keyword query languages vary in the types of spatial keyword queries that they can support There are many systems that process spatial keyword queries Systems differ from each other in various aspects e.g. whether the system is batch oriented or stream based and whether the system is centralized or distributed Moreover spatial keyword systems vary in the types of queries that they support Finally systems vary in the types of indexing techniques that they adopt This book provides an overview of the main spatial keyword data management systems SKDMSs and classifies them according to their features Moreover the book describes the main approaches adopted when indexing spatial keyword data in the centralized and distributed settings Several case studies of SKDMSs are presented along with the applications and query types that these SKDMSs are targeted for and the indexing techniques they utilize for processing their queries Optimizing the performance and the query processing of SKDMSs still has many research challenges and open problems The book concludes with a discussion about several important and open research problems in the domain of scalable spatial keyword processing

Veracity of Data Laure Berti-Équille, Javier Borge-Holthoefer, 2022-05-31 On the Web a massive amount of user generated content is available through various channels

e.g. texts, tweets, Web tables, databases, multimedia sharing platforms etc. Conflicting information, rumors, erroneous and fake content can be easily spread across multiple sources making it hard to distinguish between what is true and what is not. This book gives an overview of fundamental issues and recent contributions for ascertaining the veracity of data in the era of Big Data. The text is organized into six chapters focusing on structured data extracted from texts. Chapter 1 introduces the problem of ascertaining the veracity of data in a multi-source and evolving context. Issues related to information extraction are presented in Chapter 2. Current truth discovery computation algorithms are presented in detail in Chapter 3. It is followed by practical techniques for evaluating data source reputation and authoritativeness in Chapter 4. The theoretical foundations and various approaches for modeling diffusion phenomenon of misinformation spreading in networked systems are studied in Chapter 5. Finally, truth discovery computation from extracted data in a dynamic context of misinformation propagation raises interesting challenges that are explored in Chapter 6. This text is intended for a seminar course at the graduate level. It is also to serve as a useful resource for researchers and practitioners who are interested in the study of fact checking, truth discovery or rumor spreading.

Answering Queries Using Views, Second Edition Foto Afrati, Rada Chirkova, 2022-05-31. The topic of using views to answer queries has been popular for a few decades now as it cuts across domains such as query optimization, information integration, data warehousing, website design and recently database as a service and data placement in cloud systems. This book assembles foundational work on answering queries using views in a self-contained manner with an effort to choose material that constitutes the backbone of the research. It presents efficient algorithms and covers the following problems: query containment, rewriting queries using views in various logical languages, equivalent rewritings and maximally contained rewritings and computing certain answers in the data integration and data exchange settings. Query languages that are considered are fragments of SQL in particular select-project-join queries also called conjunctive queries with or without arithmetic comparisons or negation and aggregate SQL queries. This second edition includes two new chapters that refer to tree-like data and respective query languages. Chapter 8 presents the data model for XML documents and the XPath query language and Chapter 9 provides a theoretical presentation of tree-like data model and query language where the tuples of a relation share a tree-structured schema for that relation and the query language is a dialect of SQL with evaluation techniques appropriately modified to fit the richer schema. **Instant**

Recovery with Write-Ahead Logging Goetz Graefe, Wey Guy, Caetano Sauer, 2022-05-31. Traditional theory and practice of write-ahead logging and of database recovery focus on three failure classes: transaction failures typically due to deadlocks resolved by transaction rollback; system failures typically power or software faults resolved by restart with log analysis, redo and undo phases; and media failures typically hardware faults resolved by restore operations that combine multiple types of backups and log replay. The recent addition of single-page failures and single-page recovery has opened new opportunities far beyond the original aim of immediate lossless repair of single-page wear-out in novel or traditional storage hardware. In the

contexts of system and media failures efficient single page recovery enables on demand incremental redo and undo as part of system restart or media restore operations This can give the illusion of practically instantaneous restart and restore instant restart permits processing new queries and updates seconds after system reboot and instant restore permits resuming queries and updates on empty replacement media as if those were already fully recovered In the context of node and network failures instant restart and instant restore combine to enable practically instant failover from a failing database node to one holding merely an out of date backup and a log archive yet without loss of data updates or transactional integrity In addition to these instant recovery techniques the discussion introduces self repairing indexes and much faster offline restore operations which impose no slowdown in backup operations and hardly any slowdown in log archiving operations The new restore techniques also render differential and incremental backups obsolete complete backup commands on a database server practically instantly and even permit taking full up to date backups without imposing any load on the database server Compared to the first version of this book this second edition adds sections on applications of single page repair instant restart single pass restore and instant restore Moreover it adds sections on instant failover among nodes in a cluster applications of instant failover recovery for file systems and data files and the performance of instant restart and instant restore

Business Processes ,2016 **Data Perspective in Business Process Management** ,2015 Business process management BPM is a systematic and structured approach to model analyze control and execute business operations also referred to as business processes that get carried out to achieve business goals Central to BPM are conceptual models Most prominently process models describe which tasks are to be executed by whom utilizing which information to reach a business goal Process models generally cover the perspectives of control flow resource data flow and information systems Execution of business processes leads to the work actually being carried out Automating them increases the efficiency and is usually supported by process engines This though requires the coverage of control flow resource assignments and process data While the first two perspectives are well supported in current process engines data handling needs to be implemented and maintained manually However model driven data handling promises to ease implementation reduces the error proneness through graphical visualization and reduces development efforts through code generation This thesis addresses the modeling analysis and execution of data in business processes and presents a novel approach to execute data annotated process models entirely model driven As a first step and formal grounding for the process execution a conceptual framework for the integration of processes and data is introduced This framework is complemented by operational semantics through a Petri net mapping extended with data considerations Model driven data execution comprises the handling of complex data dependencies process data and data exchange in case of communication between multiple process participants This thesis introduces concepts from the database domain into BPM to enable the distinction of data operations to specify relations between data objects of the same as well as of different types to correlate modeled data nodes as well as received messages

to the correct run time process instances and to generate messages for inter process communication The underlying approach which is not limited to a particular process description language has been implemented as proof of concept Automation of data handling in business processes requires data annotated and correct process models Targeting the former algorithms are introduced to extract information about data nodes their states and data dependencies from control information and to annotate the process model accordingly Usually not all required information can be extracted from control flow information since some data manipulations are not specified This requires further refinement of the process model Given a set of object life cycles specifying allowed data manipulations automated refinement of the process model towards containment of all data manipulations is enabled Process models are an abstraction focusing on specific aspects in detail e g the control flow and the data flow views are often represented through activity centric and object centric process models This thesis introduces algorithms for roundtrip transformations enabling the stakeholder to add information to the process model in the view being most appropriate Targeting process model correctness this thesis introduces the notion of weak conformance that checks for consistency between given object life cycles and the process model such that the process model may only utilize data manipulations specified directly or indirectly in an object life cycle The notion is computed via soundness checking of a hybrid representation integrating control flow and data flow correctness checking Making a process model executable identified violations must be corrected Therefore an approach is proposed that identifies for each violation multiple alternative changes to the process model or the object life cycles Utilizing the results of this thesis business processes can be executed entirely model driven from the data perspective in addition to the control flow and resource perspectives already supported before Thereby the model creation is supported by algorithms partly automating the creation process while model consistency is ensured by data correctness checks

Cross-Disciplinary Models and Applications of Database Management: Advancing Approaches Siau, Keng, 2011-12-31 Within a given enterprise database management involves the monitoring administration and maintenance of the databases which constantly change with new technologies and new forms of data Cross Disciplinary Models and Applications of Database Management Advancing Approaches is an updated look at the latest tools and technology within the burgeoning field of database management Perfect for the network administrator technician information technology specialist or consultant or for academics and students this volume presents the latest the field has to offer by way of cases and new research As database languages models and systems change it s vital for practitioners within the field to stay abreast of the latest research and methods being used around the world and this book offers the most current advances available

Database Management Richard T. Watson, 1996 Complete coverage of database management with the correct balance of business and technical material for the MIS professional This book covers the technical aspects of database design and implementation with an equal emphasis on the why and how of the management of databases and the managerial uses and philosophy behind databases

Database

Management Systems Sotirios Zygiaris, 2018-08-23 Zygiaris provides an accessible walkthrough of all technological advances of databases in the business environment Readers learn how to design develop and use databases to provide business analytical reports with the three major database management systems Microsoft Access Oracle Express and MariaDB formerly MySQL

Contemporary Issues in Database Design and Information Systems Development Siau, Keng, 2007-04-30 This book presents the latest research ideas and topics on databases and software development It provides a representation of top notch research in all areas of database and information systems development Provided by publisher

Business Process Driven Database Design with Oracle PL/SQL (Edition II) Rajeev Kaula, 2021-03-12 Business Process driven Database Design with Oracle PL SQL Edition II extends the previous edition with updated content along with review questions and problem solving exercises A new database has been added to provide more problem solving skills The textbook embraces a fresh approach to database design that is rooted in the concept of business process Such a database design approach ensures a more robust and integrated database structure that is more closely aligned with business goals and objectives The textbook extends the understanding of database beyond standalone SQL through the integration of business logic with database design thereby enabling better support for enterprise applications The incorporation of business logic facilitates the threading of SQL with logic constructs that provide a richer understanding of database manipulation and utilization This book is for anyone beginner student or professional who desires to understand database design in a way that is more business oriented It can be used as a textbook in a level 1 or level 2 database design course The book covers essential concepts of business process modeling with business rules conceptual modeling with ER diagrams relational model with SQL and Oracle PL SQL language to ensure proper implementation of business logic The topics are explained in a simplified way through tutorials and numerous examples for a reader to quickly grasp the material followed by problem solving exercises It is written in a hands on style for anyone to learn the basics of database design The book also provides the SQL and PL SQL source for anyone to install the book databases and practice examples to gain an understanding of various concepts Upon completion readers will have learned the art of database design and have the skills to express it through SQL and PL SQL

Database Development and Management Lee Chao, 2006-01-13 Today s database professionals must understand how to apply database systems to business processes and how to develop database systems for both business intelligence and Web based applications Database Development and Management explains all aspects of database design access implementation application development and management as well as data analysis for business intelligence This self contained text gives students hands on projects required for professionally developing and managing databases It provides detailed instruction via an easy to follow step by step case based approach Following an introduction to database components the book uses case studies to illustrate the modeling process covers table structures and normalization and analyzes the transformation of a data model to a relational database It explains the use of SQL in managing database objects and in

querying databases then discusses Transact SQL and the views indexes and cursors that bridge databases and their applications The book examines three major data accessing techniques and then shows how to develop sophisticated applications based upon the material included in previous chapters It explores the use of databases in network environments and details the multiple tasks handled by database administrators DBAs The text also discusses the OnLine Analytical Processing OLAP system data warehousing and other analysis tools that support business intelligence and decision making It concludes with a review of data mining

Strategic Planning, Systems Analysis, and Database Design Mark L. Gillenson, Robert Goldberg, 1984

Modeling and Enacting Complex Data Dependencies in Business Processes Andreas Meyer, Luise Pufahl, Dirk Fahland, Mathias Weske, 2013

Business Process Driven Database Design Rajeev Kaula, 2019-02-10

Business Process driven Database Design with Oracle PL SQL outlines a fresh approach to database design that is rooted in the concept of business process Such a database design approach ensures a more robust and integrated database structure that is more closely aligned with business goals and objectives It also integrates business logic with database design thereby enabling better support for business applications This book is for anyone beginner student or professional who desires to understand database design in a way that is more business oriented It can also be used as a text book in a level 1 database design course The book covers essential concepts of business process modeling with business rules conceptual modeling with ER diagrams relational model with SQL and Oracle PL SQL language to ensure proper implementation of business logic The topics are explained in a simplified way through tutorials and numerous examples for a reader to quickly grasp the material It is written in a hands on style for anyone to learn the basics of database design The book also provides the SQL and PL SQL source for anyone to install the book database and practice examples to gain understanding of various concepts Upon completion readers will have learnt the art of database design and have the skills to express it through SQL and PL SQL

Business Database Technology Shouhong Wang, Hai Wang, 2022

Business Database Technology provides essential knowledge of database technology for four year college university business students who study information technology and data resource management Students will learn basic data structure techniques in databases relational database model design and implementation of relational databases normalization SQL physical relational database design techniques database administration relational databases in computer networks data warehouses overview of OLAP online analytical processing and introduction to NoSQL databases

Database Systems Nenad Jukic, Susan Vrbsky, Svetlozar Nestorov, 2013-01-03

An introductory yet comprehensive database textbook intended for use in undergraduate and graduate information systems database courses This text also provides practical content to current and aspiring information systems business data analysis and decision support industry professionals Database Systems Introduction to Databases and Data Warehouses covers both analytical and operations database as knowledge of both is integral to being successful in today s business environment It also provides a solid theoretical foundation and hands on practice using an integrated web based

data modeling suite

Business Processes A Database Perspective Tova Milo Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Business Processes A Database Perspective Tova Milo**, a literary masterpiece that delves deep in to 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 shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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