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Data Protection from Insider Threats

Elisa Bertino

SYNTHESIS LECTURES ON DATA MANAGEMENT

M. Tamer Özsu, *Series Editor*

Data Protection From Insider Threats Elisa Bertino



Elisa Bertino

Data Protection From Insider Threats Elisa Bertino:

Data Protection from Insider Threats Elisa Bertino, 2012 The problem of how to protect data from theft and misuse is at the forefront of organisations minds Even though data security techniques are available to protect data and computing infrastructures many such techniques are unable to protect data from attacks posed by those working on an organisation s inside This book discusses techniques that can provide effective protection against attacks posed by people working on the inside of an organisation

Data Protection from Insider Threats Elisa Bertino, 2022-05-31 As data represent a key asset for today s organizations the problem of how to protect this data from theft and misuse is at the forefront of these organizations minds Even though today several data security techniques are available to protect data and computing infrastructures many such techniques such as firewalls and network security tools are unable to protect data from attacks posed by those working on an organization s inside These insiders usually have authorized access to relevant information systems making it extremely challenging to block the misuse of information while still allowing them to do their jobs This book discusses several techniques that can provide effective protection against attacks posed by people working on the inside of an organization Chapter One introduces the notion of insider threat and reports some data about data breaches due to insider threats Chapter Two covers authentication and access control techniques and Chapter Three shows how these general security techniques can be extended and used in the context of protection from insider threats Chapter Four addresses anomaly detection techniques that are used to determine anomalies in data accesses by insiders These anomalies are often indicative of potential insider data attacks and therefore play an important role in protection from these attacks Security information and event management SIEM tools and fine grained auditing are discussed in Chapter Five These tools aim at collecting analyzing and correlating in real time any information and event that may be relevant for the security of an organization As such they can be a key element in finding a solution to such undesirable insider threats Chapter Six goes on to provide a survey of techniques for separation of duty SoD SoD is an important principle that when implemented in systems and tools can strengthen data protection from malicious insiders However to date very few approaches have been proposed for implementing SoD in systems In Chapter Seven a short survey of a commercial product is presented which provides different techniques for protection from malicious users with system privileges such as a DBA in database management systems Finally in Chapter Eight the book concludes with a few remarks and additional research directions Table of Contents Introduction Authentication Access Control Anomaly Detection Security Information and Event Management and Auditing Separation of Duty Case Study Oracle Database Vault Conclusion

Foundations of Data Quality Management Wenfei Fan, Floris Geerts, 2022-05-31 Data quality is one of the most important problems in data management A database system typically aims to support the creation maintenance and use of large amount of data focusing on the quantity of data However real life data are often dirty inconsistent duplicated inaccurate incomplete or stale Dirty data in a database routinely

generate misleading or biased analytical results and decisions and lead to loss of revenues credibility and customers With this comes the need for data quality management In contrast to traditional data management tasks data quality management enables the detection and correction of errors in the data syntactic or semantic in order to improve the quality of the data and hence add value to business processes While data quality has been a longstanding problem for decades the prevalent use of the Web has increased the risks on an unprecedented scale of creating and propagating dirty data This monograph gives an overview of fundamental issues underlying central aspects of data quality namely data consistency data deduplication data accuracy data currency and information completeness We promote a uniform logical framework for dealing with these issues based on data quality rules The text is organized into seven chapters focusing on relational data Chapter One introduces data quality issues A conditional dependency theory is developed in Chapter Two for capturing data inconsistencies It is followed by practical techniques in Chapter 2b for discovering conditional dependencies and for detecting inconsistencies and repairing data based on conditional dependencies Matching dependencies are introduced in Chapter Three as matching rules for data deduplication A theory of relative information completeness is studied in Chapter Four revising the classical Closed World Assumption and the Open World Assumption to characterize incomplete information in the real world A data currency model is presented in Chapter Five to identify the current values of entities in a database and to answer queries with the current values in the absence of reliable timestamps Finally interactions between these data quality issues are explored in Chapter Six Important theoretical results and practical algorithms are covered but formal proofs are omitted The bibliographical notes contain pointers to papers in which the results were presented and proven as well as references to materials for further reading 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 data quality The fundamental research on data quality draws on several areas including mathematical logic computational complexity and database theory It has raised as many questions as it has answered and is a rich source of questions and vitality

Table of Contents Data Quality An Overview Conditional Dependencies Cleaning Data with Conditional Dependencies Data Deduplication Information Completeness Data Currency Interactions between Data Quality Issues

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 details 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

Data Cleaning Venkatesh Ganti, Anish Das Sarma, 2022-05-31 Data warehouses consolidate various activities of a business and often form the backbone for generating reports that support important business decisions Errors in data tend to creep in for a variety of reasons Some of these reasons include errors during input data collection and errors while merging data collected independently across different databases These errors in data warehouses often result in erroneous upstream reports and could impact business decisions negatively Therefore one of the critical challenges while maintaining large data warehouses is that of ensuring the quality of data in the data warehouse remains high The process of maintaining high data quality is commonly referred to as data cleaning In this book we first discuss the goals of data cleaning Often the goals of data cleaning are not well defined and could mean different solutions in different scenarios Toward clarifying these goals we abstract out a common set of data cleaning tasks that often need to be addressed This abstraction allows us to develop solutions for these common data cleaning tasks We then discuss a few popular approaches for developing such solutions In particular we focus on an operator centric approach for developing a data cleaning platform The operator centric approach involves the development of customizable operators that could be used as building blocks for developing common solutions This is similar to the approach of relational algebra for query processing The basic set of operators can be put together to build complex queries Finally we discuss the development of custom scripts which leverage the basic data cleaning operators along with relational operators to implement effective solutions for data cleaning tasks

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

Big Data Integration Xin Luna Dong, Divesh Srivastava, 2022-05-31 The big data era is upon us data are being generated analyzed and used at an unprecedented scale and data driven decision making is sweeping through all aspects of society Since the value of data explodes when it can be linked and fused with other data addressing the big data integration BDI challenge is critical to realizing the promise of big data BDI differs from traditional data integration along the dimensions of volume velocity variety and veracity First not only can data sources contain a huge volume of data but also the number of data sources is now in the millions Second because of the rate at which newly collected data are made available many of the data sources are very dynamic and the number of data sources is also rapidly exploding Third data sources are extremely heterogeneous in their structure and content exhibiting considerable variety even for substantially similar entities Fourth the data sources are of widely differing qualities with significant differences in the coverage accuracy and timeliness of data provided This book explores the progress that has been made by the data integration community on the topics of schema alignment record linkage and data fusion in addressing these novel challenges faced by big data integration Each of these topics is covered in a systematic way first starting with a quick tour of the topic in the context of traditional data integration followed by a detailed example driven exposition of recent innovative techniques that have been proposed to address the BDI challenges of volume velocity variety and veracity Finally it presents merging topics and opportunities that are specific to BDI identifying promising directions for the data integration community

Data Exploration Using Example-Based Methods Matteo Lissandrini, Davide Mottin, Themis Palpanas, Yannis Velegrakis, 2022-06-01 Data usually comes in a plethora of formats and dimensions rendering the exploration and information extraction processes challenging Thus being able to perform exploratory analyses in the data with the intent of having an immediate glimpse on some of the data properties is becoming crucial Exploratory analyses should be simple enough to avoid complicate declarative languages such as SQL and mechanisms and at the same time retain the flexibility and expressiveness of such languages Recently we have witnessed a rediscovery of the so called example based methods in which the user or the analyst circumvents query languages by using examples as input An example is a representative of the intended results or in other words an item from the result set Example based methods exploit inherent characteristics of the data to infer the results that the user has in mind but may not be able to easily express They can be useful in cases where a user is looking for information in an unfamiliar dataset when the task is particularly challenging like finding duplicate items or simply when they are exploring the data In this book we present an excursus over the main methods for exploratory analysis with a particular focus on example based methods We show how that different data types require

different techniques and present algorithms that are specifically designed for relational textual and graph data The book presents also the challenges and the new frontiers of machine learning in online settings which recently attracted the attention of the database community The lecture concludes with a vision for further research and applications in this area

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

Cloud-Based RDF Data Management Zoi Kaoudi, Ioana Manolescu, Stamatis Zampetakis, 2022-05-31 Resource Description Framework or RDF in short is set to deliver many of the original semi structured data promises flexible structure optional schema and rich flexible Universal Resource Identifiers as a basis for information sharing Moreover RDF is uniquely positioned to benefit from the efforts of scientific communities studying databases knowledge representation and Web technologies As a consequence the RDF data model is used in a variety of applications today for integrating knowledge and information in open Web or government data via the Linked Open Data

initiative in scientific domains such as bioinformatics and more recently in search engines and personal assistants of enterprises in the form of knowledge graphs Managing such large volumes of RDF data is challenging due to the sheer size heterogeneity and complexity brought by RDF reasoning To tackle the size challenge distributed architectures are required Cloud computing is an emerging paradigm massively adopted in many applications requiring distributed architectures for the scalability fault tolerance and elasticity features it provides At the same time interest in massively parallel processing has been renewed by the MapReduce model and many follow up works which aim at simplifying the deployment of massively parallel data management tasks in a cloud environment In this book we study the state of the art RDF data management in cloud environments and parallel distributed architectures that were not necessarily intended for the cloud but can easily be deployed therein After providing a comprehensive background on RDF and cloud technologies we explore four aspects that are vital in an RDF data management system data storage query processing query optimization and reasoning We conclude the book with a discussion on open problems and future directions

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