Managing Data Integrity for Finance : Discover Practical Data Quality Management Strategies for Finance Analysts and Data Professionals /

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Monografía

Level up your career by learning best practices for managing the data quality and integrity of your financial data Key Features Accelerate data integrity management using artificial intelligence-powered solutions Learn how business intelligence tools, ledger databases, and database locks solve data integrity issues Find out how to detect fraudulent transactions affecting financial report integrity Book Description Data integrity management plays a critical role in the success and effectiveness of organizations trying to use financial and operational data to make business decisions. Unfortunately, there is a big gap between the analysis and management of finance data along with the proper implementation of complex data systems across various organizations. The first part of this book covers the important concepts for data quality and data integrity relevant to finance, data, and tech professionals. The second part then focuses on having you use several data tools and platforms to manage and resolve data integrity issues on financial data. The last part of this the book covers intermediate and advanced solutions, including managed cloud-based ledger databases, database locks, and artificial intelligence, to manage the integrity of financial data in systems and databases. After finishing this hands-on book, you will be able to solve various data integrity issues experienced by organizations globally. What you will learn Develop a customized financial data quality scorecard Utilize business intelligence tools to detect, manage, and resolve data integrity issues Find out how to use managed cloud-based ledger databases for financial data integrity Apply database locking techniques to prevent transaction integrity issues involving finance data Discover the methods to detect fraudulent transactions affecting financial report integrity Use artificial intelligence-powered solutions to resolve various data integrity issues and challenges Who this book is for This book is for financial analysts, technical leaders, and data professionals interested in learning practical strategies for managing data integrity and data quality using relevant frameworks and tools. A basic understanding of finance concepts, accounting, and data analysis is expected. Knowledge of finance management is not a prerequisite, but it'll help you grasp the more advanced topics covered in this book

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-- Technical requirements Understanding the major causes of fraud -- Common myths and misconceptions about financial fraud -- Myth 1-the impact of fraud is insignificant -- Myth 2-fraud is very hard to detect -- Myth 3-prosecution completely deters fraud -- Myth 4-preventing fraud is only important for big institutions -- Myth 5-large companies are the common targets of fraud -- Interpreting financial reports -- Horizontal or trend analysis -- Vertical analysis -- Competitor and industry analysis -- Cash flow analysis -- Learning how fraudulent transactions affect overall financial report integrity -- Fictitious revenues -- Improper capitalization of expenses -- Misrepresentation of liabilities and debt -- Detecting and preventing fraudulent transactions and anomalies -- Tone at the top -- Implementing strong internal controls -- Management review -- Ratio analysis -- Utilizing data analytics and machine learning in fraud detection -- Summary -- Further reading -- Part 3: Modern Strategies to Manage the Data Integrity of Finance Systems -- Chapter 8: Using Database Locking Techniques for Financial Transaction Integrity -- Technical requirements -- Getting started with SQL -- Installing PostgreSQL -- Creating a database -- Creating a table -- Inserting data into the table -- Learning how race conditions impact the transaction integrity of financial systems -- Reviewing how database locks prevent financial transaction integrity issues -- Guaranteeing transaction integrity with database locks -- Best practices when using database locks -- Summary -- Further reading -- Chapter 9: Using Managed Ledger Databases for Finance Data Integrity -- Technical requirements -- Introduction to ledger databases -- Creating an AWS account -- Creating an S3 bucket -- Creating the Amazon QLDB ledger -- Reviewing the internals of ledger databases -- Getting the digest -- Creating a table Using the PartiQL editor -- Generating a document -- Saving and retrieving a query -- Viewing the data in the table -- Loading saved queries -- Nesting automatically -- Understanding how ledger databases prevent data integrity issues -- Verifying the document -- Updating the transaction -- Obtaining the digest -- Verifying the results -- Deleting records from the ledger -- Working with history and data -- Exporting the journal -- Cleaning up -- Exploring the best practices when using ledger databases -- Summary -- Further reading -- Chapter 10: Using Artificial Intelligence for Finance Data Quality Management -- Technical requirements -- Introduction to AI -- Applications of AI in finance -- Detecting anomalies in financial transaction data -- Handling missing financial reporting data with AI -- Best practices when using AI for data integrity management -- Summary -- Further reading -- Index -- About PACKT -- Other Books You May Enjoy

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