



Integrity

Is the data maintained & updated over time?

Accuracy

How correct are the data values?

Uniqueness

How little duplication is there in the records?

Data Quality Dimensions

Completeness

Is all information present?

Timeliness

How up-to-date is the data?

Consistency

Does the data match other trusted data sources?

Validity

Does the data conform to the predetermined format & constraints?

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The Practitioner's Guide to Data Quality Improvement David Loshin, 2010-11-22 The Practitioner's Guide to Data Quality Improvement offers a comprehensive look at data quality for business and IT encompassing people process and technology It shares the fundamentals for understanding the impacts of poor data quality and guides practitioners and managers alike in socializing gaining sponsorship for planning and establishing a data quality program It demonstrates how to institute and run a data quality program from first thoughts and justifications to maintenance and ongoing metrics It includes an in depth look at the use of data quality tools including business case templates and tools for analysis reporting and strategic planning This book is recommended for data management practitioners including database analysts information analysts data administrators data architects enterprise architects data warehouse engineers and systems analysts and their managers Offers a comprehensive look at data quality for business and IT encompassing people process and technology Shows how to institute and run a data quality program from first thoughts and justifications to maintenance and ongoing metrics Includes an in depth look at the use of data quality tools including business case templates and tools for analysis reporting and strategic planning

Data Quality Thomas C. Redman, 2001-01-11 Can any subject inspire less excitement than data quality Yet a moment's thought reveals the ever growing importance of quality data From restated corporate earnings to incorrect prices on the web to the bombing of the Chinese Embassy the media reports the impact of poor data quality on a daily basis Every business operation creates or consumes huge quantities of data If the data are wrong time money and reputation are lost In today's environment every leader every decision maker every operational manager every consumer indeed everyone has a vested interest in data quality Data Quality The Field Guide provides the practical guidance needed to start and advance a data quality program It motivates interest in data quality describes the most important data quality problems facing the typical organization and outlines what an organization must do to improve It consists of 36 short chapters in an easy to use field guide format Each chapter describes a single issue and how to address it The book begins with sections that describe

why leaders whether CIOs CFOs or CEOs should be concerned with data quality It explains the pros and cons of approaches for addressing the issue It explains what those organizations with the best data do And it lays bare the social issues that prevent organizations from making headway Field tips at the end of each chapter summarize the most important points Allows readers to go directly to the topic of interest Provides web based material so readers can cut and paste figures and tables into documents within their organizations Gives step by step instructions for applying most techniques and summarizes what works

Data Quality Prashanth Southekal,2023-02-01 Discover how to achieve business goals by relying on high quality robust data In *Data Quality Empowering Businesses with Analytics and AI* veteran data and analytics professional delivers a practical and hands on discussion on how to accelerate business results using high quality data In the book you ll learn techniques to define and assess data quality discover how to ensure that your firm s data collection practices avoid common pitfalls and deficiencies improve the level of data quality in the business and guarantee that the resulting data is useful for powering high level analytics and AI applications The author shows you how to Profile for data quality including the appropriate techniques criteria and KPIs Identify the root causes of data quality issues in the business apart from discussing the 16 common root causes that degrade data quality in the organization Formulate the reference architecture for data quality including practical design patterns for remediating data quality Implement the 10 best data quality practices and the required capabilities for improving operations compliance and decision making capabilities in the business An essential resource for data scientists data analysts business intelligence professionals chief technology and data officers and anyone else with a stake in collecting and using high quality data *Data Quality Empowering Businesses with Analytics and AI* will also earn a place on the bookshelves of business leaders interested in learning more about what sets robust data apart from the rest

Data Quality Carlo Batini,Monica Scannapieco,2006-09-27 Poor data quality can seriously hinder or damage the efficiency and effectiveness of organizations and businesses The growing awareness of such repercussions has led to major public initiatives like the Data Quality Act in the USA and the European 2003 98 directive of the European Parliament Batini and Scannapieco present a comprehensive and systematic introduction to the wide set of issues related to data quality They start with a detailed description of different data quality dimensions like accuracy completeness and consistency and their importance in different types of data like federated data web data or time dependent data and in different data categories classified according to frequency of change like stable long term and frequently changing data The book s extensive description of techniques and methodologies from core data quality research as well as from related fields like data mining probability theory statistical data analysis and machine learning gives an excellent overview of the current state of the art The presentation is completed by a short description and critical comparison of tools and practical methodologies which will help readers to resolve their own quality problems This book is an ideal combination of the soundness of theoretical foundations and the applicability of practical approaches It is ideally suited for everyone

researchers students or professionals interested in a comprehensive overview of data quality issues In addition it will serve as the basis for an introductory course or for self study on this topic

Data Quality Yng-Yuh Richard Wang, Richard Y. Wang, Mostapha Ziad, Yang W. Lee, 2001 Data Quality provides an expos of research and practice in the data quality field for technically oriented readers It is based on the research conducted at the MIT Total Data Quality Management TDQM program and work from other leading research institutions This book is intended primarily for researchers practitioners educators and graduate students in the fields of Computer Science Information Technology and other interdisciplinary areas It forms a theoretical foundation that is both rigorous and relevant for dealing with advanced issues related to data quality Written with the goal to provide an overview of the cumulated research results from the MIT TDQM research perspective as it relates to database research this book is an excellent introduction to Ph D who wish to further pursue their research in the data quality area It is also an excellent theoretical introduction to IT professionals who wish to gain insight into theoretical results in the technically oriented data quality area and apply some of the key concepts to their practice

Executing Data Quality Projects Danette McGilvray, 2021-05-27 Executing Data Quality Projects Second Edition presents a structured yet flexible approach for creating improving sustaining and managing the quality of data and information within any organization Studies show that data quality problems are costing businesses billions of dollars each year with poor data linked to waste and inefficiency damaged credibility among customers and suppliers and an organizational inability to make sound decisions Help is here This book describes a proven Ten Step approach that combines a conceptual framework for understanding information quality with techniques tools and instructions for practically putting the approach to work with the end result of high quality trusted data and information so critical to today s data dependent organizations The Ten Steps approach applies to all types of data and all types of organizations for profit in any industry non profit government education healthcare science research and medicine This book includes numerous templates detailed examples and practical advice for executing every step At the same time readers are advised on how to select relevant steps and apply them in different ways to best address the many situations they will face The layout allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities best practices and warnings The experience of actual clients and users of the Ten Steps provide real examples of outputs for the steps plus highlighted sidebar case studies called Ten Steps in Action This book uses projects as the vehicle for data quality work and the word broadly to include 1 focused data quality improvement projects such as improving data used in supply chain management 2 data quality activities in other projects such as building new applications and migrating data from legacy systems integrating data because of mergers and acquisitions or untangling data due to organizational breakups and 3 ad hoc use of data quality steps techniques or activities in the course of daily work The Ten Steps approach can also be used to enrich an organization s standard SDLC whether sequential or Agile and it complements general improvement methodologies such as six sigma or lean No two data

quality projects are the same but the flexible nature of the Ten Steps means the methodology can be applied to all The new Second Edition highlights topics such as artificial intelligence and machine learning Internet of Things security and privacy analytics legal and regulatory requirements data science big data data lakes and cloud computing among others to show their dependence on data and information and why data quality is more relevant and critical now than ever before Includes concrete instructions numerous templates and practical advice for executing every step of The Ten Steps approach Contains real examples from around the world gleaned from the author's consulting practice and from those who implemented based on her training courses and the earlier edition of the book Allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities and best practices A companion Web site includes links to numerous data quality resources including many of the templates featured in the text quick summaries of key ideas from the Ten Steps methodology and other tools and information that are available online [Data Quality ROI](#)

Gaurav Patole, 2025-09-22 Turn data quality into a business advantage that delivers measurable results Poor data quality delays transformation undermines analytics and erodes trust in business decisions Data Quality ROI shows business leaders data professionals and executives how to reframe data quality as a strategic asset that fuels revenue growth risk reduction and customer satisfaction Drawing on years of leading data governance and quality programs author Gaurav Patole introduces a clear Newton inspired framework for understanding how data flows breaks and improves inside organizations Through relatable stories and four simple laws he explains why data quality programs often stall and how to build lasting change This book goes beyond cleansing and dashboards to focus on ownership communication and culture Readers will discover how to overcome organizational inaction break down governance silos and make data quality everyone's responsibility Each chapter connects practical steps to real business outcomes ensuring data quality conversations resonate across both business and technology teams This book delivers a rare combination of deep expertise and practical frameworks that any organization regardless of maturity can use to take control of its data to adopt a Fit for Purpose mindset focused exclusively on the data that drives decisions revenue and risk mitigation Patrick Attallah Chief Data Officer at NXP Semiconductors The core idea in this book that data quality is fundamentally a communication challenge is a powerful one It provides a useful framework for data teams who are struggling to translate their efforts into a language that resonates with business stakeholders and fosters a culture of shared data accountability Dr Sebastian Wernicke Bestselling Author of Data Inspired Partner Oxera Consulting Having worked alongside Gaurav through some of the most demanding data transformation programs I've seen his brilliance in action leading and delivering enterprise scale data governance and quality initiatives with a level of impact that's truly unprecedented This book reflects that same rare mix of vision depth and execution Subeer Sehgal Head AI Data Governance Strategy at Fractal This book that you hold in your hands is a work of leadership that will create clarity and generate energy for data quality as an organization wide team sport Karthik Ravindran

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qualitative discussions cost of data quality data quality strategy data quality maturity the case made for data quality and so on with case studies illustrations and real world examples throughout **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 *Data Quality Control and Editing* Joseph I. Naus,1975

Organizing a dictionary of deterministic tests Techniques for probabilistic tests Related approaches to monitoring and improving the quality of data Automatic data correction Locating errors Cost effectiveness of data validation **Data**

Quality and its Impacts on Decision-Making Christoph Samitsch,2014-12-01 Christoph Samitsch investigates whether decision making efficiency is being influenced by the quality of data and information Results of the research provide evidence that defined data quality dimensions have an effect on decision making performance as well as the time it takes to make a decision Data Quality Richard Y. Wang,Mostapha Ziad,Yang W. Lee,2006-04-11 Data Quality provides an expos of research and practice in the data quality field for technically oriented readers It is based on the research conducted at the

MIT Total Data Quality Management TDQM program and work from other leading research institutions This book is intended primarily for researchers practitioners educators and graduate students in the fields of Computer Science Information Technology and other interdisciplinary areas It forms a theoretical foundation that is both rigorous and relevant for dealing with advanced issues related to data quality Written with the goal to provide an overview of the cumulated research results from the MIT TDQM research perspective as it relates to database research this book is an excellent introduction to Ph D who wish to further pursue their research in the data quality area It is also an excellent theoretical introduction to IT professionals who wish to gain insight into theoretical results in the technically oriented data quality area and apply some of the key concepts to their practice *Data Quality and Record Linkage Techniques* Thomas N. Herzog, Fritz J.

Scheuren, William E. Winkler, 2007-05-23 This book offers a practical understanding of issues involved in improving data quality through editing imputation and record linkage The first part of the book deals with methods and models focusing on the Fellegi Holt edit imputation model the Little Rubin multiple imputation scheme and the Fellegi Sunter record linkage model The second part presents case studies in which these techniques are applied in a variety of areas including mortgage guarantee insurance medical biomedical highway safety and social insurance as well as the construction of list frames and administrative lists This book offers a mixture of practical advice mathematical rigor management insight and philosophy

Executing Data Quality Projects Danette McGilvray, 2008-09-01 Information is currency Recent studies show that data quality problems are costing businesses billions of dollars each year with poor data linked to waste and inefficiency damaged credibility among customers and suppliers and an organizational inability to make sound decisions In this important and timely new book Danette McGilvray presents her Ten Steps approach to information quality a proven method for both understanding and creating information quality in the enterprise Her trademarked approach in which she has trained Fortune 500 clients and hundreds of workshop attendees applies to all types of data and to all types of organizations Includes numerous templates detailed examples and practical advice for executing every step of the Ten Steps approach Allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities and best practices A companion Web site includes links to numerous data quality resources including many of the planning and information gathering templates featured in the text quick summaries of key ideas from the Ten Step methodology and other tools and information available online [Automating Data Quality Monitoring](#) Jeremy Stanley, Paige

Schwartz, 2024-01-09 The world's businesses ingest a combined 2.5 quintillion bytes of data every day But how much of this vast amount of data used to build products power AI systems and drive business decisions is poor quality or just plain bad This practical book shows you how to ensure that the data your organization relies on contains only high quality records Most data engineers data analysts and data scientists genuinely care about data quality but they often don't have the time resources or understanding to create a data quality monitoring solution that succeeds at scale In this book Jeremy Stanley

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