

# Epub free Foundations of data quality management synthesis lectures on data man (2023)

Data Quality Handbook of Data Quality Data Quality  
 Executing Data Quality Projects Executing Data Quality  
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 Ongoing Improvement The Practitioner's Guide to Data  
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## Python Data Wrangling and Data Quality

**Data Quality** 2001 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

Handbook of Data Quality 2013-08-13 the pearson education

quality is as old as data itself however the proliferation of diverse large scale and often publically available data on the 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

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** 2019-03-18 this is not the kind of book that you ll read one time and be done with so scan it quickly the first time through to get an idea of its breadth then dig in on one topic of special importance to your work finally use it as a reference to guide your next steps learn details and broaden your perspective from the foreword by thomas c redman ph d the data doc good data is a source of myriad opportunities while bad data is a tremendous burden companies that manage their data effectively are able to achieve a competitive advantage in the marketplace while bad data like cancer can weaken and kill an organization in this comprehensive book rupa mahanti provides guidance on the different aspects of data quality with the aim to be able to improve data quality specifically the book addresses causes of bad data quality bad data quality impacts and importance of data quality to justify the case for data quality butterfly effect of data quality a detailed description of data quality dimensions and their measurement data quality strategy approach six sigma dmaic approach to data quality

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data quality management techniques data quality in relation to data initiatives like data migration mdm data governance etc data quality myths challenges and critical success factors students academicians professionals and researchers can all use the content in this book to further their knowledge and get guidance on their own specific projects it balances technical details for example sql statements relational database components data quality dimensions measurements and higher level 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

**Executing Data Quality Projects** 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

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

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 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

*Executing Data Quality Projects* 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 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



information gathering templates featured in the text quick summaries of key ideas from the ten step methodology and other tools and information available online

**Data Quality** 2003-01-09 data quality the accuracy dimension is about assessing the quality of corporate data and improving its accuracy using the data profiling method corporate data is increasingly important as companies continue to find new ways to use it likewise improving the accuracy of data in information systems is fast becoming a major goal as companies realize how much it affects their bottom line data profiling is a new technology that supports and enhances the accuracy of databases throughout major it shops jack olson explains data profiling and shows how it fits into the larger picture of data quality provides an accessible enjoyable introduction to the subject of data accuracy peppered with real world anecdotes provides a framework for data profiling with a discussion of analytical tools appropriate for assessing data accuracy is written by one of the original developers of data profiling technology is a must read for any data management staff it management staff and cios of companies with data assets

**Data Quality** 1992 data quality begins with an explanation of what data is how it is created and destroyed then explores the true quality of data accuracy consistency and currentness from there the author covers the powerful methods of statistical quality control and process management to bear on the core processes that create manipulate use and store data values table of contents 1 introduction 2 data and information 3 dimensions of data quality 4 statistical quality control 5 process management 6 process representation and the functions of information

processing approach 7 data quality requirements 8  
 measurement systems and data quality 9 process redesign  
 using experimentation and computer simulation 10  
 managing multiple processes 11 perspective prospects and  
 implications 12 summaries

## **Measuring Data Quality for Ongoing Improvement**

2012-12-31 the data quality assessment framework shows you how to measure and monitor data quality ensuring quality over time you ll start with general concepts of measurement and work your way through a detailed framework of more than three dozen measurement types related to five objective dimensions of quality completeness timeliness consistency validity and integrity ongoing measurement rather than one time activities will help your organization reach a new level of data quality this plain language approach to measuring data can be understood by both business and it and provides practical guidance on how to apply the dqaf within any organization enabling you to prioritize measurements and effectively report on results strategies for using data measurement to govern and improve the quality of data and guidelines for applying the framework within a data asset are included you ll come away able to prioritize which measurement types to implement knowing where to place them in a data flow and how frequently to measure common conceptual models for defining and storing of data quality results for purposes of trend analysis are also included as well as generic business requirements for ongoing measuring and monitoring including calculations and comparisons that make the measurements meaningful and help understand trends and detect anomalies demonstrates how to leverage

technology independent data quality measurement framework for your specific business priorities and data quality challenges enables discussions between business and it with a non technical vocabulary for data quality measurement describes how to measure data quality on an ongoing basis with generic measurement types that can be applied to any situation

## **The Practitioner's Guide to Data Quality Improvement**

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

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**Data Quality** 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 for the Information Age** 1996 all aspects of data management are explored in this title which provides detailed analyses of quality problems and ~~pearson education~~

potential solutions and how they are combined to form an overall data quality program senior management s role and methods used to make and sustain improvements

Enterprise Knowledge Management 2001 this volume presents a methodology for defining measuring and improving data quality it lays out an economic framework for understanding the value of data quality then outlines data quality rules and domain and mapping based approaches to consolidating enterprise knowledge

**Flow Architectures** 2021-01-06 software development today is embracing events and streaming data which optimizes not only how technology interacts but also how businesses integrate with one another to meet customer needs this phenomenon called flow consists of patterns and standards that determine which activity and related data is communicated between parties over the internet this book explores critical implications of that evolution what happens when events and data streams help you discover new activity sources to enhance existing businesses or drive new markets what technologies and architectural patterns can position your company for opportunities enabled by flow james urquhart global field cto at vmware guides enterprise architects software developers and product managers through the process learn the benefits of flow dynamics when businesses governments and other institutions integrate via events and data streams understand the value chain for flow integration through wardley mapping visualization and promise theory modeling walk through basic concepts behind today s event driven systems marketplace learn how today s integration patterns will influence the real time events flow in the future

companies should architect and build software today to take advantage of flow in coming years

**Data Quality** 2018 this book explains data quality management in practical terms focusing on three key areas the nature of data in enterprises the purpose and scope of data quality management and implementing a data quality management system in line with iso 8000 61 examples of good practice in data quality management are also included

**Data Quality** 2014-01-15 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 corporate data collection and analysis

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

*Managing Data Quality* 2020-04-27 meeting the challenges of data quality management outlines the foundational concepts of data quality management and its challenges the book enables data management professionals to help their organizations get more value from data by addressing the five challenges of data quality management the meaning challenge recognizing how data represents reality the process quality challenge creating high quality data by design the people challenge building data literacy the technical challenge enabling organizational data to be accessed and used as well as protected and the accountability challenge ensuring organizational leadership treats data as an asset organizations that fail to meet these challenges get less value from their data than organizations that address them directly the book describes core data quality management capabilities and introduces new and experienced dq practitioners to practical techniques for getting value from activities such as data profiling dq monitoring and dq reporting it extends these ideas to the management of data quality within big data environments this book will appeal to data quality and data management professionals especially those involved with data governance across a wide range of industries as well as academic and government organizations readership extends to people higher up the organizational ladder chief data officers data strategists analytics leaders and in different parts of the organization finance professionals operations management

leaders who want to leverage their data and their organizational capabilities people processes technology to drive value and gain competitive advantage this will be a key reference for graduate students in computer science programs which normally have a limited focus on the data itself and where data quality management is an often overlooked aspect of data management courses describes the importance of high quality data to organizations wanting to leverage their data and more generally to people living in today's digitally interconnected world explores the five challenges in relation to organizational data including big data and proposes approaches to meeting them clarifies how to apply the core capabilities required for an effective data quality management program data standards definition data quality assessment monitoring and reporting issue management and improvement as both stand alone processes and as integral components of projects and operations provides data quality practitioners with ways to communicate consistently with stakeholders

**Data Quality** 2023-02-01 written for practitioners of data mining data cleaning and database management presents a technical treatment of data quality including process metrics tools and algorithms focuses on developing an evolving modeling strategy through an iterative data exploration loop and incorporation of domain knowledge addresses methods of detecting quantifying and correcting data quality issues that can have a significant impact on findings and decisions using commercially available tools as well as new algorithmic approaches uses case studies to illustrate applications in real life scenarios highlights new approaches and methodologies such as the data sphere space partitioning approach



based analysis techniques exploratory data mining and data cleaning will serve as an important reference for serious data analysts who need to analyze large amounts of unfamiliar data managers of operations databases and students in undergraduate or graduate level courses dealing with large scale data analysis and data mining

## **Meeting the Challenges of Data Quality Management**

2022-01-25 practical data quality offers a comprehensive view of managing data quality in your organization from the business case through to permanently embedding improvements you make in the organization

*Exploratory Data Mining and Data Cleaning* 2003-08-01 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

*Practical Data Quality* 2023-09-29 data quality provides an exposé 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 and data quality

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 its Impacts on Decision-Making**

2014-12-01 learn algorithms for solving classic computer science problems with this concise guide covering everything from fundamental algorithms such as sorting and searching to modern algorithms used in machine learning and cryptography key features learn the techniques you need to know to design algorithms for solving complex problems become familiar with neural networks and deep learning techniques explore different types of algorithms and choose the right data structures for their optimal implementation book description algorithms have always played an important role in both the science and practice of computing beyond traditional computing the ability to use algorithms to solve real world problems is an important skill that any developer or programmer must have this book will help you not only to develop the skills to select and use an algorithm to solve real world problems but also to understand how it works you ll start with an introduction to algorithms and discover various algorithm design techniques before exploring how to implement different types of algorithms such as searching and sorting with the help of practical examples as you advance to a more complex set of algorithms you ll learn about linear programming page ranking and graphs and even work with machine learning algorithms understanding the math and logic behind them further on pearson education

as weather prediction tweet clustering and movie recommendation engines will show you how to apply these algorithms optimally finally you ll become well versed in techniques that enable parallel processing giving you the ability to use these algorithms for compute intensive tasks by the end of this book you ll have become adept at solving real world computational problems by using a wide range of algorithms what you will learn explore existing data structures and algorithms found in python libraries implement graph algorithms for fraud detection using network analysis work with machine learning algorithms to cluster similar tweets and process twitter data in real time predict the weather using supervised learning algorithms use neural networks for object detection create a recommendation engine that suggests relevant movies to subscribers implement foolproof security using symmetric and asymmetric encryption on google cloud platform gcp who this book is for this book is for programmers or developers who want to understand the use of algorithms for problem solving and writing efficient code whether you are a beginner looking to learn the most commonly used algorithms in a clear and concise way or an experienced programmer looking to explore cutting edge algorithms in data science machine learning and cryptography you ll find this book useful although python programming experience is a must knowledge of data science will be helpful but not necessary

*Data Quality* 2006-04-11 christian fürber investigates the useful application of semantic technologies for the area of data quality management based on a literature analysis of typical data quality problems and typical approaches of data

quality management processes he develops the semantic data quality management framework as the major contribution of this thesis the sdqm framework consists of three components that are evaluated in two different use cases moreover this thesis compares the framework to conventional data quality software besides the framework this thesis delivers important theoretical findings namely a comprehensive typology of data quality problems ten generic data requirement types a requirement centric data quality management process and an analysis of related work

*40 Algorithms Every Programmer Should Know* 2020-06-12

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 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 data

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

## **Data Quality Management with Semantic Technologies**

2015-12-11 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

## **Foundations of Data Quality Management** 2022-05-31

imagine a group of prehistoric hunters armed with stone tipped spears their primitive weapons made hunting large animals such as mammoths dangerous work over time however a new breed of hunters developed they would stretch the skin of a previously killed mammoth on the wall and throw their spears while observing which spear thrown from which angle and distance penetrated the skin the best the data gathered helped them make better spears and develop better hunting strategies quality data is the key to any advancement whether it is from the stone age to the bronze age or from the information age to whatever age comes next the success of corporations and government institutions largely depends on the efficiency with which they can collect organise and utilise data about products customers competitors and employees for properly improving

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your data quality does not have to be such a mammoth task this book is a must read for anyone who needs to understand correct or prevent data quality issues in their organisation skipping theory and focusing purely on what is practical and what works this text contains a proven approach to identifying warehousing and analysing data errors master techniques in data profiling and gathering metadata designing data quality rules organising rule and error catalogues and constructing the dimensional data quality scorecard david wells director of education of the data warehousing institute says this is one of those books that marks a milestone in the evolution of a discipline arkady s insights and techniques fuel the transition of data quality management from art to science from crafting to engineering from deep experience with thoughtful structure and with engaging style arkady brings the discipline of data quality to practitioners

### **Data Quality and Record Linkage Techniques**

2007-05-23 create a competitive advantage with data quality data is rapidly becoming the powerhouse of industry but low quality data can actually put a company at a disadvantage to be used effectively data must accurately reflect the real world scenario it represents and it must be in a form that is usable and accessible quality data involves asking the right questions targeting the correct parameters and having an effective internal management organization and access system it must be relevant complete and correct while falling in line with pervasive regulatory oversight programs competing with high quality data concepts tools and techniques for building a successful approach to data quality takes a holistic approach to improving data quality

from collection to usage author rajesh jugulum is globally recognized as a major voice in the data quality arena with high level backgrounds in international corporate finance in the book jugulum provides a roadmap to data quality innovation covering topics such as the four phase approach to data quality control methodology that produces data sets for different aspects of a business streamlined data quality assessment and issue resolution a structured systematic disciplined approach to effective data gathering the book also contains real world case studies to illustrate how companies across a broad range of sectors have employed data quality systems whether or not they succeeded and what lessons were learned high quality data increases value throughout the information supply chain and the benefits extend to the client employee and shareholder competing with high quality data concepts tools and techniques for building a successful approach to data quality provides the information and guidance necessary to formulate and activate an effective data quality plan today

**Data Quality Assessment** 2007 provides an overview of fundamental issues underlying central aspects of data quality data consistency data deduplication data accuracy data currency and information completeness the book promotes a uniform logical framework for dealing with these issues based on data quality rules

**Competing with High Quality Data** 2014-03-10 this publication provides a set of guidelines for health care workers health information managers and administrators to help them focus on improving the timeliness accuracy and reliability of health care data they describe key activities and tasks to be considered when addressing the requirements of data



quality in health care regardless of the setting or size of organisations

*Foundations of Data Quality Management* 2012 a guide for assessing an organization's data quality practice and a roadmap for implementing a viable data and information quality management program based on rigorous research and drawing on real world examples all organizations today confront data quality problems both systemic and structural neither ad hoc approaches nor fixes at the systems level installing the latest software or developing an expensive data warehouse solve the basic problem of bad data quality practices journey to data quality offers a roadmap that can be used by practitioners executives and students for planning and implementing a viable data and information quality management program this practical guide based on rigorous research and informed by real world examples describes the challenges of data management and provides the principles strategies tools and techniques necessary to meet them the authors all leaders in the data quality field for many years discuss how to make the economic case for data quality and the importance of getting an organization's leaders on board they outline different approaches for assessing data both subjectively by users and objectively using sampling and other techniques they describe real problems and solutions including efforts to find the root causes of data quality problems at a healthcare organization and data quality initiatives taken by a large teaching hospital they address setting company policy on data quality and finally they consider future challenges on the journey to data quality

**Improving Data Quality** 2003-01-01 ana pearson education  
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capabilities and options to measure and improve data quality and sas is perfectly suited to these tasks gerhard svolba s data quality for analytics using sas focuses on selecting the right data sources and ensuring data quantity relevancy and completeness the book is made up of three parts the first part which is conceptual defines data quality and contains text definitions explanations and examples the second part shows how the data quality status can be profiled and the ways that data quality can be improved with analytical methods the final part details the consequences of poor data quality for predictive modeling and time series forecasting with this book you will learn how you can use sas to perform advanced profiling of data quality status and how sas can help improve your data quality this book is part of the sas press program

**Journey to Data Quality** 2009 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 has increased the risks on an unprecedented scale of creating and propagating dirty data this m

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

*Data Quality for Analytics Using SAS* 2012-04-01 all organizations today confront data quality problems both systemic and structural neither ad hoc approaches nor fixes at the systems level installing the latest software or developing an expensive data warehouse solve the basic problem of bad data quality practices journey to data quality offers a roadmap that can be used by practitioners executives and students for planning and implementing a viable data and information quality management program this practical guide based on rigorous research and informed by real world examples describes the challenges of data management and provides the principles strategies tools and techniques necessary to meet them the authors all leaders in the data quality field for many years discuss how to make the economic case for data quality and the importance of getting an organization s leaders on board they outline different approaches for assessing data both subjectively by users and objectively using sampling and other techniques they describe real problems and solutions including efforts to find the root causes of data quality problems at a healthcare organization and data quality initiatives taken by a large teaching hospital they address setting company policy on data quality and finally they consider future challenges on the journey to data quality

Foundations of Data Quality Management 2017-06-14 this book provides a systematic and comparative description of

the vast number of research issues related to the quality of data and information it does so by delivering a sound integrated and comprehensive overview of the state of the art and future development of data and information quality in databases and information systems to this end it presents an extensive description of the techniques that constitute the core of data and information quality research including record linkage also called object identification data integration error localization and correction and examines the related techniques in a comprehensive and original methodological framework quality dimension definitions and adopted models are also analyzed in detail and differences between the proposed solutions are highlighted and discussed furthermore while systematically describing data and information quality as an autonomous research area paradigms and influences deriving from other areas such as probability theory statistical data analysis data mining knowledge representation and machine learning are also included last not least the book also highlights very practical solutions such as methodologies benchmarks for the most effective techniques case studies and examples the book has been written primarily for researchers in the fields of databases and information management or in natural sciences who are interested in investigating properties of data and information that have an impact on the quality of experiments processes and on real life the material presented is also sufficiently self contained for masters or phd level courses and it covers all the fundamentals and topics without the need for other textbooks data and information system administrators and practitioners who deal with systems exposed to data quality

result need a systematization of the field and practical methods in the area will also benefit from the combination of concrete practical approaches with sound theoretical formalisms

**Journey to Data Quality** 2006 a significant amount of money is lost every year to bad data this includes time spent on correcting bad data evaluating data sources that are not trusted or simply the costs of mistakes due to incorrect customer identification why not improve your business in an area that you can directly influence our whitepaper helps you understand the purpose and added value of data quality management what types of common data quality issues exist and guides you through the steps needed to establish a good data quality management framework as a part of your overall data governance in this whitepaper you will learn what data quality management is and how it helps your business understand what data quality is and how you can categorize data issues as data quality dimensions discover how bad data is produced in the first place and how to improve data quality see what position data quality management takes in data governance get a step by step guide to the data quality management process

Data and Information Quality 2016-03-23 excerpt from a process view of data quality in summary a product view of data quality focuses on characteristics of the data product or on satisfaction of the information systems users with the information system such a view is intuitive as we tend to think of product quality in terms of product characteristics and user requirements however we believe that the product oriented approach to defining data quality is inherently lacking in three respects about the publisher's contribution

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### *How to Establish a Data Quality Management Framework*

2022-05-17 data is the foundation of the digital economy industry 4.0 and digital services are producing so far unknown quantities of data and make new business models possible under these circumstances data quality has become the critical factor for success this book presents a holistic approach for data quality management and presents ten case studies about this issue it is intended for practitioners dealing with data quality management and data governance as well as for scientists the book was written at the competence center corporate data quality cc cdq in close cooperation between researchers from the university of st gallen and fraunhofer iml as well as many representatives from more than 20 major corporations chapter 1 introduces the role of data in the digitization of business and society and describes the most important business drivers for data quality it presents the framework for corporate data quality management and introduces essential terms and concepts chapter 2 presents practical successful examples of the management of the quality of master data

cases studies that were conducted by the cc cdq the case studies cover every aspect of the framework for corporate data quality management chapter 3 describes selected tools for master data quality management the three tools have been distinguished through their broad applicability method for dqm strategy development and dqm maturity assessment and their high level of innovation corporate data league chapter 4 summarizes the essential factors for the successful management of the master data quality and provides a checklist of immediate measures that should be addressed immediately after the start of a data quality management project this guarantees a quick start into the topic and provides initial recommendations for actions to be taken by project and line managers please also check out the book s homepage at [cdq-book.org](http://cdq-book.org)

### **A Process View of Data Quality (Classic Reprint)**

2016-12-28 data quality will either make you or break you in the financial services industry missing prices wrong market values trading violations client performance restatements and incorrect regulatory filings can all lead to harsh penalties lost clients and financial disaster this practical guide provides data analysts data scientists and data practitioners in financial services firms with the framework to apply manufacturing principles to financial data management understand data dimensions and engineer precise data quality tolerances at the datum level and integrate them into your data processing pipelines you ll get invaluable advice on how to evaluate data dimensions and how they apply to different data types and use cases determine data quality tolerances for your data quality specification choose the points along the data processing pipeline where data quality

should be assessed and measured apply tailored data governance frameworks within a business or technical function or across an organization precisely align data with applications and data processing pipelines and more

Corporate Data Quality 2015-12-08 the world around us is full of data that holds unique insights and valuable stories and this book will help you uncover them whether you already work with data or want to learn more about its possibilities the examples and techniques in this practical book will help you more easily clean evaluate and analyze data so that you can generate meaningful insights and compelling visualizations complementing foundational concepts with expert advice author susan e mcgregor provides the resources you need to extract evaluate and analyze a wide variety of data sources and formats along with the tools to communicate your findings effectively this book delivers a methodical jargon free way for data practitioners at any level from true novices to seasoned professionals to harness the power of data use python 3 8 to read write and transform data from a variety of sources understand and use programming basics in python to wrangle data at scale organize document and structure your code using best practices collect data from structured data files web pages and apis perform basic statistical analyses to make meaning from datasets visualize and present data in clear and compelling ways

*Data Quality Engineering in Financial Services* 2022-10-19

*Practical Python Data Wrangling and Data Quality*

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