Free pdf Executing data quality projects ten steps to quality data and trusted information tm Copy

Executing Data Quality Projects Executing Data Quality Projects Data Quality Data Quality Data Quality Handbook of Data Quality Data Quality Fundamentals The Practitioner's Guide to Data Quality Improvement Data Quality Data Quality for the Information Age Data Quality Data Analytics and Visualization in Quality Analysis using Tableau Toward Quality Data Competing with High Quality Data Data Quality Improving Data Warehouse and Business Information Quality Toward Quality Data Enterprise Knowledge Management Meeting the Challenges of Data Quality Management The Data Quality Blueprint Data and Information Quality Toward Quality Data Data Quality Foundations of Data Quality Management Managing Data Quality Automating Data Quality Monitoring Journey to Data Quality Toward Quality Data Driving Data Quality with Data Contracts Information Quality How to Establish a Data Quality Management Framework Data Quality Engineering in Financial Services A Process View of Data Quality (Classic Reprint) Air Quality Data ... Statistics Executing Data Quality Projects Improving Data Quality Air Quality Data Developing High Quality Data Models Information Quality Applied Data Quality in the Age of AI

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 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 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 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

Data Quality

2018

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

2001

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 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

2014-01-15

do your product dashboards look funky are your quarterly reports stale is the data set you re using broken or just plain wrong these problems affect almost every team yet they re usually addressed on an ad hoc basis and in a reactive manner if you answered yes to these questions this book is for you many data engineering teams today face the good pipelines bad data problem it doesn t matter how advanced your data infrastructure is if the data you re piping is bad in this book barr moses lior gavish and molly vorwerck from the data observability company monte carlo explain how to tackle data quality and trust at scale by leveraging best practices and technologies used by some of the world s most innovative companies build more trustworthy and reliable data pipelines write scripts to make data checks and identify broken pipelines with data observability learn how to set and maintain data slas slis and slos develop and lead data quality initiatives at your company learn how to treat data services and systems with the diligence of production software automate data lineage graphs across your data ecosystem build anomaly detectors for your critical data assets

Handbook of Data Quality

2013-08-13

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 Fundamentals

2022-09

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

The Practitioner's Guide to Data Quality Improvement

2010-11-22

all aspects of data management are explored in this title which provides detailed analyses of quality problems and their impacts 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

Data Quality

1992

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

data analytics and visualization in quality analysis using tableau goes beyond the existing quality statistical analysis it helps quality practitioners perform effective quality control and analysis using tableau a user friendly data analytics and visualization software it begins with a basic introduction to quality analysis with tableau including differentiating factors from other platforms it is followed by a description of features and functions of quality analysis tools followed by step by step instructions on how to use tableau further quality analysis through tableau based on open source data is explained based on five case studies lastly it systematically describes the implementation of quality analysis through tableau in an actual workplace via a dashboard example features describes a step by step method of tableau to effectively apply data visualization techniques in quality analysis focuses on a visualization approach for practical quality analysis provides comprehensive coverage of quality analysis topics using state of the art concepts and applications illustrates pragmatic implementation methodology and instructions applicable to real world and business cases include examples of ready to use templates of customizable tableau dashboards this book is aimed at professionals graduate students and senior undergraduate students in industrial systems and quality engineering process

engineering systems engineering quality control quality assurance and quality analysis

Data Quality

2006-09-27

a groundbreaking new approach to data quality management based on the use of attributes to measure and improve data quality developed by a team of experts from the sloan school of management this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Data Analytics and Visualization in Quality Analysis using Tableau

2021-07-28

create a competitive advantage with data quality data is rapidly becoming the powerhouse of industry butlow quality data can actually put a company at a disadvantage tobe used effectively data must accurately reflect the real worldscenario it represents and it must be in a form that is usable andaccessible quality data involves asking the right questions targeting the correct parameters and having an effective internalmanagement organization and access system it must be relevant complete and correct while falling in line with pervasiveregulatory oversight programs competing with high quality data concepts tools andtechniques for building a successful approach to data qualitytakes a holistic approach to improving data quality fromcollection to usage author rajesh jugulum is globally recognizedas a major voice in the data quality arena with high levelbackgrounds 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 abusiness streamlined data quality assessment and issue resolution a structured systematic disciplined approach to effectivedata gathering the book also contains real world case studies to illustrate howcompanies across a broad range of sectors have employed dataquality systems whether or not they succeeded and what lessonswere learned high quality data increases value throughout theinformation 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 approachto data quality provides the information and guidance necessaryto formulate and activate an effective data quality plan today

Toward Quality Data

2023-07-18

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

Competing with High Quality Data

2014-03-10

a comprehensive guide to quality improvement from the leading expert in information and data warehouse quality each year companies lose millions as a result of inaccurate and missing data in their operational databases this in turn corrupts data warehouses causing them to fail with information quality improvement and control systems like the ones described in this book your company can reduce costs and increase profits from quality information assets written by an internationally recognized expert in information quality improvement improving data warehouse and business information quality arms you with a comprehensive set of tools and techniques for ensuring data quality both in source databases and the data warehouse with the help of best practices case studies

larry english fills you in on how and when to measure information quality how to measure the business costs of poor quality information how to select the right information quality tools for your environment how to reengineer and cleanse data to improve the information product before it reaches your data warehouse how to improve the information creation processes at the source how to build quality controls into data warehouse processes authorbio larry p english is the leading international expert in the field of information and data warehouse quality he is a columnist for data management review and a featured speaker at numerous data warehousing conferences larry chairs information quality conferences held around the world

Data Quality

2003-01-09

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

Improving Data Warehouse and Business Information Quality

1999-03-25

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 managers it 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

Toward Quality Data

1992

poor data quality is a problem in every sector this book drawing on both the author s project management experience and also his data quality data strategy data governance and data management experience describes a clear practical step by step blueprint that organisations can use to create a long lasting data quality solution

Enterprise Knowledge Management

2001

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 issues and as a 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

Meeting the Challenges of Data Quality Management

2022-01-25

this is a reproduction of a book published before 1923 this book may have occasional imperfections such as missing or blurred pages poor pictures errant marks etc that were either part of the original artifact or were introduced by the scanning process we believe this work is culturally important and despite the imperfections have elected to bring it back into print as part of our continuing commitment to the preservation of printed works worldwide we appreciate your understanding of the imperfections in the preservation process and hope you enjoy this valuable book

The Data Quality Blueprint

2016-04-27

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 and Information Quality

2018-05-26

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 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

Toward Quality Data

2014-01

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

2023-02-01

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 and paige schwartz from anomalo explain how you can use automated data quality monitoring to cover all your tables efficiently proactively alert on every category of issue and resolve problems immediately this book will help you learn why data quality is a business imperative understand and assess unsupervised learning models for detecting data issues implement notifications that reduce alert fatigue and let you triage and resolve issues quickly integrate automated data quality monitoring with data catalogs orchestration layers and bi and ml systems understand the limits of automated data quality monitoring and how to overcome them learn how to deploy and manage your monitoring solution at scale maintain automated data quality monitoring for the long term

Foundations of Data Quality Management

2022-05-31

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 qualityoffers 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

Managing Data Quality

2020-04-27

this paper presents a description of how to specify store retrieve and process data quality tags along with application data a complete relational based conceptual and logical data modeling formalism are

presented including a storage model a query processing model and integrity constraints

Automating Data Quality Monitoring

2024-01-09

everything you need to know to apply data contracts and build a truly data driven organization that harnesses quality data to deliver tangible business value purchase of the print or kindle book includes a free pdf ebook key features understand data contracts and their power to resolving the problems in contemporary data platforms learn how to design and implement a cutting edge data platform powered by data contracts access practical guidance from the pioneer of data contracts to get expert insights on effective utilization book description despite the passage of time and the evolution of technology and architecture the challenges we face in building data platforms persist our data often remains unreliable lacks trust and fails to deliver the promised value with driving data quality with data contracts you ll discover the potential of data contracts to transform how you build your data platforms finally overcoming these enduring problems you ll learn how establishing contracts as the interface allows you to explicitly assign responsibility and accountability of the data to those who know it best the data generators and give them the autonomy to generate and manage data as required the book will show you how data contracts ensure that consumers get quality data with clearly defined expectations enabling them to build on that data with confidence to deliver valuable analytics performant ml models and trusted data driven products by the end of this book you ll have gained a comprehensive understanding of how data contracts can revolutionize your organization s data culture and provide a competitive advantage by unlocking the real value within your data what you will learn gain insights into the intricacies and shortcomings of today s data architectures understand exactly how data contracts can solve prevalent data challenges drive a fundamental transformation of your data culture by implementing data contracts discover what goes into a data contract and why it s important design a modern data architecture that leverages the power of data contracts explore sample implementations to get practical knowledge of using data contracts embrace best practices for the successful deployment of data contracts who this book is for if you re a data engineer data leader architect or practitioner thinking about your data architecture and looking to design one that enables your organization to get the most value from your data this book is for you additionally staff engineers product managers and software engineering leaders and executives will also find valuable insights

Journey to Data Quality

2006

provides an important framework for data analysts in assessing the quality of data and its potential to provide meaningful insights through analysis analytics and statistical analysis have become pervasive topics mainly due to the growing availability of data and analytic tools technology however fails to deliver insights with added value if the quality of the information it generates is not assured information quality infoq is a tool developed by the authors to assess the potential of a dataset to achieve a goal of interest using data analysis whether the information quality of a dataset is sufficient is of practical importance at many stages of the data analytics journey from the pre data collection stage to the post data collection and post analysis stages it is also critical to various stakeholders data collection agencies analysts data scientists and management this book explains how to integrate the notions of goal data analysis and utility that are the main building blocks of data analysis within any domain presents a framework for integrating domain knowledge with data analysis provides a combination of both methodological and practical aspects of data analysis discusses issues surrounding the implementation and integration of infoq in both academic programmes and business industrial projects showcases numerous case studies in a variety of application areas such as education healthcare official statistics risk management and marketing surveys presents a review of software tools from the infoq perspective along with example datasets on an accompanying website this book will be beneficial for researchers in academia and in industry analysts consultants and agencies that collect and analyse data as well as undergraduate and postgraduate courses involving data analysis

Toward Quality Data

1992

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

Driving Data Quality with Data Contracts

2023-06-30

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

Information Quality

2016-12-19

excerpt from a process view of data quality we posit that the term data quality though used in a variety of research and practitioner contexts has been inadequately conceptualized and defined to improve data quality we must bound and define the concept of data quality in the past researchers have tended to take a product oriented view of data quality though necessary this view is insufficient for three reasons first data quality defects in general are difficult to detect by simple inspection of the data product second definitions of data quality dimensions and defects while useful intuitively tend to be ambiguous and interdependent third in line with a cornerstone of tqm philosophy emphasis should be placed on process management to improve product quality the objective of this paper is to characterize the concept of data quality from a mess perspective a formal process model of an information system is is developed which offers precise process constructs for characterizing data quality with these constructs we rigorously define the key dimensions of data quality the analysis also provides a framework for examining the cm data quality problems finally facilitated by the exactness of the model an analysis is presented of the interdependencies among the various data quality dimensions about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

How to Establish a Data Quality Management Framework

2022-05-17

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

Data Quality Engineering in Financial Services

2022-10-19

developing high quality data models provides an introduction to the key principles of data modeling it explains the purpose of data models in both developing an enterprise architecture and in supporting information quality common problems in data model development and how to develop high quality data models in particular conceptual integration and enterprise data models the book is organized into four parts part 1 provides an overview of data models and data modeling including the basics of data model notation types and uses of data models and the place of data models in enterprise architecture part 2 introduces some general principles for data models including principles for developing ontologically based data models and applications of the principles for attributes relationship types and entity types part 3 presents an ontological framework for developing consistent data models part 4 provides the full data model that has been in development throughout the book the model was created using jotne

epm technologys edmvisualexpress data modeling tool this book was designed for all types of modelers from those who understand data modeling basics but are just starting to learn about data modeling in practice through to experienced data modelers seeking to expand their knowledge and skills and solve some of the more challenging problems of data modeling uses a number of common data model patterns to explain how to develop data models over a wide scope in a way that is consistent and of high quality offers generic data model templates that are reusable in many applications and are fundamental for developing more specific templates develops ideas for creating consistent approaches to high quality data models

A Process View of Data Quality (Classic Reprint)

2018-02-11

how to apply data quality management techniques to marketing sales and other specific business units author and information quality management expert larry english returns with a sequel to his much acclaimed book improving data warehouse and business information quality in this new book he takes a hands on approach showing how to apply the concepts outlined in the first book to specific business areas like marketing sales finance and human resources the book presents real world scenarios so you can see how to meld data quality concepts to specific business areas such as supply chain management product and service development customer care and others step by step instruction practical techniques and helpful templates from the author help you immediately apply best practices and start modeling your own quality initiatives maintaining the quality and accuracy of business data is crucial database managers are in need of specific guidance for data quality management in all key business areas information quality applied offers it database and business managers step by step instruction in setting up methodical and effective procedures the book provides specifics if you have to manage data quality in marketing sales customer care supply chain management product and service management human resources or finance the author includes templates that readers can put to immedate use for modeling their own quality initiatives a companion site provides templates updates to the book and links to related sites

Air Quality Data ... Statistics

1976

unlock the power of data with expert insights to enhance data quality maximizing the potential of ai and establishing a data centric culture key features gain a profound understanding of the interplay between data quality and ai explore strategies to improve data quality with practical implementation and real world results acquire the skills to measure and evaluate data quality empowering data driven decisions purchase of the kindle book includes a free pdf ebook book descriptionas organizations worldwide seek to revamp their data strategies to leverage ai advancements and benefit from newfound capabilities data quality emerges as the cornerstone for success without high quality data even the most advanced ai models falter enter data quality in the age of ai a detailed report that illuminates the crucial role of data quality in shaping effective data strategies packed with actionable insights this report highlights the critical role of data quality in your overall data strategy it equips teams and organizations with the knowledge and tools to thrive in the evolving ai landscape serving as a roadmap for harnessing the power of data quality enabling them to unlock their data s full potential leading to improved performance reduced costs increased revenue and informed strategic decisions what you will learn discover actionable steps to establish data quality as the foundation of your data culture enhance data quality directly at its source with effective strategies and best practices elevate data quality standards and enhance data literacy within your organization identify and measure data quality within the dataset adopt a product mindset to address data quality challenges explore emerging architectural patterns like data mesh and data contracts assign roles responsibilities and incentives for data generators gain insights from real world case studies who this book is for this report is for data leaders and decision makers including ctos cios cisos cpos and ceos responsible for shaping their organization s data strategy to maximize data value especially those interested in harnessing recent ai advancements

Executing Data Quality Projects

2008

Improving Data Quality

2003-01-01

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Developing High Quality Data Models

2011-02-07

Information Quality Applied

2009-10-12

Data Quality in the Age of AI

2024-05-24

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