

# Data quality assessment framework steps

by DQOps - open-source data quality platform: <https://dqops.com/>

## SET GOALS

Define the business reasons for improving data quality. These may include issues with data reliability, or needs for regulatory compliance (e.g., GDPR, HIPAA).

### INPUT

A list of the most significant data quality problems that are affecting the business.

Clearly defined goals and acceptance criteria that will determine the success of the data quality improvement project.

### OUTPUT

## TOOLS SETUP

Set up the necessary data profiling or data quality tools. Record the metadata of the datasets that will be assessed.

### INPUT

The data quality tool, the required infrastructure, and the connection details needed to access the data sources.

The data profiling tool is configured and ready to profile the datasets included in the project scope.

### OUTPUT

## ERROR REVIEW

Examine the data quality issues found by the tool. Discuss with data owners and data consumers to confirm if these issues are real problems that impact their work.

### INPUT

The list of data quality issues found by the data profiling tool. Feedback from data owners on how serious these problems are for the users and organization.

A verified list of data quality issues that need to be fixed. These issues will be included in the final report.

### OUTPUT

## PREPARE

## PERFORM

## REPORT

## SCOPE and RESOURCES

Choose the most important datasets to assess. Identify all data stakeholders including data engineers, users, and data owners who need to be involved.

### INPUT

The list of the most critical data quality problems, the current roles and responsibilities of those involved in data management and data consumption.

A prioritized list of data sources and datasets to be included in the assessment. Identification of the people and resources that will work on the project.

### OUTPUT

## DATA PROFILING

Gather statistics on the chosen datasets. Examine sample data and carry out data quality tests to find common data quality issues and validate existing known problems.

### INPUT

A list of known data quality issues and concerns reported by data stakeholders (e.g., data analysts, data owners, data stewards).

Statistics gathered for all columns in the dataset. A list of data quality issues automatically found by the tool.

### OUTPUT

## BASELINE REPORT

Create a data quality baseline report for each dataset and data source. This report will describe the health of the data across different data quality dimensions (e.g., completeness, validity, accuracy, and consistency).

### INPUT

The verified list of data quality issues. The chosen data quality metrics that will be used to calculate the final data quality KPI score.

Data quality reports for each dataset, which include a health score and a list of data quality errors that need to be addressed.

### OUTPUT

# Data Quality Assessment

**Jack E. Olson**



## **Data Quality Assessment:**

WHO Data quality assessment of national and partner monitoring data and system implementation tool Second edition.  
World Health Organization,2024-04-17 This technical brief summarizes key updates to the 2018 Data quality assessment of national and partner HIV treatment and patient monitoring data and systems implementation tool focusing on implementing and following up remedial activities after such assessments and guidance on developing data quality improvement strategies It is intended that this technical update is used alongside the 2018 implementation tool to support country implementation of data quality assessments This technical brief provides further guidance and recommendations on the following developing a follow up action plan after conducting data quality assessment to support the implementation of remedial actions disseminating notifying and reporting data quality assessment results using data quality assessment results to adjust national HIV estimates and implementing data quality improvement activities at the site level that link data quality assessment to broader data quality improvement activities to address data quality issues and strengthen data use Guidance for Data Quality Assessment ,1996 *Measuring Data Quality for Ongoing Improvement* Laura Sebastian-Coleman,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 a 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** David Loshin,2010-11-22 The Practitioner s Guide to Data Quality Improvement offers a comprehensive look at data quality for business and IT encompassing people process and technology It shares the fundamentals for understanding the impacts of poor data quality and guides practitioners and managers alike in socializing gaining sponsorship for planning and

establishing a data quality program It demonstrates how to institute and run a data quality program from first thoughts and justifications to maintenance and ongoing metrics It includes an in depth look at the use of data quality tools including business case templates and tools for analysis reporting and strategic planning This book is recommended for data management practitioners including database analysts information analysts data administrators data architects enterprise architects data warehouse engineers and systems analysts and their managers Offers a comprehensive look at data quality for business and IT encompassing people process and technology Shows how to institute and run a data quality program from first thoughts and justifications to maintenance and ongoing metrics Includes an in depth look at the use of data quality tools including business case templates and tools for analysis reporting and strategic planning **Knowledge Discovery**

**Process and Methods to Enhance Organizational Performance** Kweku-Muata Osei-Bryson, Corlane Barclay, 2015-03-16

Although the terms data mining and knowledge discovery and data mining KDDM are sometimes used interchangeably data mining is actually just one step in the KDDM process Data mining is the process of extracting useful information from data while KDDM is the coordinated process of understanding the business and mining the data in order to identify previously unknown patterns Knowledge Discovery Process and Methods to Enhance Organizational Performance explains the knowledge discovery and data mining KDDM process in a manner that makes it easy for readers to implement Sharing the insights of international KDDM experts it details powerful strategies models and techniques for managing the full cycle of knowledge discovery projects The book supplies a process centric view of how to implement successful data mining projects through the use of the KDDM process It discusses the implications of data mining including security privacy ethical and legal considerations Provides an introduction to KDDM including the various models adopted in academia and industry Details critical success factors for KDDM projects as well as the impact of poor quality data or inaccessibility to data on KDDM projects Proposes the use of hybrid approaches that couple data mining with other analytic techniques e g data envelopment analysis cluster analysis and neural networks to derive greater value and utility Demonstrates the applicability of the KDDM process beyond analytics Shares experiences of implementing and applying various stages of the KDDM process in organizations The book includes case study examples of KDDM applications in business and government After reading this book you will understand the critical success factors required to develop robust data mining objectives that are in alignment with your organization s strategic business objectives *DATA QUALITY ASSESSMENT : REPORT OF THE DATA QUALITY*

*WORK GROUP.* ,1980 **Web Information Systems and Mining** Wu Lee Wang, Jingsheng Lei, Gong Zhiguo, Xiangfeng

Luo, 2012-10-06 The volume LNCS 7529 constitutes the refereed proceedings of the International Conference on Web Information Systems and Mining WISM 2012 held in Chengdu China in October 2012 The 87 revised full papers presented were carefully reviewed and selected from 418 submissions The papers are organized in topical sections on applications of Web information systems applications of Web mining e government and e commerce information security intelligent

networked systems management information systems mobile computing semantic Web and ontologies Web information extraction Web intelligence Web interfaces and applications and XML and semi structured data     Data Quality Complete Self-assessment Guide Gerardus Blokdyk, 2017-05-14 What are the business goals Data Quality is aiming to achieve Who sets the Data Quality standards Will team members regularly document their Data Quality work Think about the people you identified for your Data Quality project and the project responsibilities you would assign to them what kind of training do you think they would need to perform these responsibilities effectively Are improvement team members fully trained on Data Quality Defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role In EVERY company organization and department Unless you are talking a one time single use project within a business there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it For more than twenty years The Art of Service s Self Assessments empower people who can do just that whether their title is marketer entrepreneur manager salesperson consultant business process manager executive assistant IT Manager CxO etc they are the people who rule the future They are people who watch the process as it happens and ask the right questions to make the process work better This book is for managers advisors consultants specialists professionals and anyone interested in Data Quality assessment Featuring 637 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which Data Quality improvements can be made In using the questions you will be better able to diagnose Data Quality projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in Data Quality and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the Data Quality Scorecard you will develop a clear picture of which Data Quality areas need attention Included with your purchase of the book is the Data Quality Self Assessment downloadable resource containing all 637 questions and Self Assessment areas of this book This enables ease of re use and enables you to import the questions in your preferred Management or Survey Tool Access instructions can be found in the book You are free to use the Self Assessment contents in your presentations and materials for customers without asking us we are here to help This Self Assessment has been approved by The Art of Service as part of a lifelong learning and Self Assessment program and as a component of maintenance of certification Optional other Self Assessments are available For more information visit <http://theartofservice.com>     Business Process Management: Blockchain and Robotic Process Automation Forum José González Enríquez, Søren Debois, Peter Fettke, Pierluigi Plebani, Inge van de Weerd, Ingo Weber, 2021-08-21 This book constitutes the proceedings of the Blockchain and RPA Forum held as part of the

19th International Conference on Business Process Management BPM 2021 which took place during September 6 10 2021 in Rome Italy The Blockchain Forum and the RPA Forum have in common that they are centered around an emerging and exciting technology The blockchain is a sophisticated distributed ledger technology while RPA software allows for mimicking human repetitive actions Each of these have the potential to fundamentally change how business processes are being orchestrated and executed in practice The 8 papers presented in this volume were carefully reviewed and selected from a total of 14 submissions

Data Quality Assessment Statistical Methods for Practitioners EPA Qa/G9-S United States Environmental Protection Agency (EPA), 2018-07-11 Data Quality Assessment Statistical Methods for Practitioners EPA QA G9 S

**Computational Science - ICCS 2021** Maciej Paszynski, Dieter Kranzlmüller, Valeria V. Krzhizhanovskaya, Jack J. Dongarra, Peter M.A. Sloot, 2021-06-10 The six volume set LNCS 12742 12743 12744 12745 12746 and 12747 constitutes the proceedings of the 21st International Conference on Computational Science ICCS 2021 held in Krakow Poland in June 2021 The total of 260 full papers and 57 short papers presented in this book set were carefully reviewed and selected from 635 submissions 48 full and 14 short papers were accepted to the main track from 156 submissions 212 full and 43 short papers were accepted to the workshops thematic tracks from 479 submissions The papers were organized in topical sections named Part I ICCS Main Track Part II Advances in High Performance Computational Earth Sciences Applications and Frameworks Applications of Computational Methods in Artificial Intelligence and Machine Learning Artificial Intelligence and High Performance Computing for Advanced Simulations Biomedical and Bioinformatics Challenges for Computer Science Part III Classifier Learning from Difficult Data Computational Analysis of Complex Social Systems Computational Collective Intelligence Computational Health Part IV Computational Methods for Emerging Problems in Dis Information Analysis Computational Methods in Smart Agriculture Computational Optimization Modelling and Simulation Computational Science in IoT and Smart Systems Part V Computer Graphics Image Processing and Artificial Intelligence Data Driven Computational Sciences Machine Learning and Data Assimilation for Dynamical Systems MeshFree Methods and Radial Basis Functions in Computational Sciences Multiscale Modelling and Simulation Part VI Quantum Computing Workshop Simulations of Flow and Transport Modeling Algorithms and Computation Smart Systems Bringing Together Computer Vision Sensor Networks and Machine Learning Software Engineering for Computational Science Solving Problems with Uncertainty Teaching Computational Science Uncertainty Quantification for Computational Models The conference was held virtually

Artificial Intelligence-Driven Geographies Seyed Navid Mashhadi Moghaddam, Huhua Cao, 2024-09-11 This groundbreaking book delves deep into the history of AI the major techniques and algorithms of machine learning and deep learning and the critical role of data sources and processing in these disciplines It covers a range of AI applications in human geography including population distribution land use environmental risk assessment and socioeconomic analysis In urban planning the book explores AI driven approaches to smart cities transportation management urban growth prediction and sustainable

development among others As AI continues to permeate every aspect of human life it is essential to understand and address the ethical considerations and challenges associated with AI driven planning This book tackles crucial issues such as data privacy algorithmic bias equitable access to technology and the future of employment in the fields of geography and urban planning In addition it presents inspiring case studies highlighting successful AI applications in human geography and urban planning and offers insights into future research directions and challenges This book is a must read for students researchers and professionals in geography urban planning environmental studies and related fields It is also an invaluable resource for policymakers and urban planners seeking to leverage the power of AI to create smarter more sustainable and equitable cities and communities This book equips you with the knowledge and tools to harness the potential of AI leading the way to a better understanding of our world and a brighter future for all

*Executing Data Quality Projects* Danette McGilvray, 2021-05-27

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

requirements data science big data data lakes and cloud computing among others to show their dependence on data and information and why data quality is more relevant and critical now than ever before Includes concrete instructions numerous templates and practical advice for executing every step of The Ten Steps approach Contains real examples from around the world gleaned from the author s consulting practice and from those who implemented based on her training courses and the earlier edition of the book Allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities and best practices A companion Web site includes links to numerous data quality resources including many of the templates featured in the text quick summaries of key ideas from the Ten Steps methodology and other tools and information that are available online

*Investing in E-Health: People, Knowledge and Technology for a Healthy Future* H. Grain,F. Martin-Sanchez,L.K. Schaper,2014-08-14 As healthcare organisations and governments look to information technology to capitalise and enhance healthcare the need for effective investment to update existing technology and provide cost effective infrastructure for the future becomes clear The issues of defining success and understanding opportunities are crucial to planning optimum investment and the best use of scarce resources This book presents papers from the Australian Health Informatics Conference HIC 2014 held in Melbourne Australia in August 2014 With the theme of investing in e health people knowledge and technology for a healthy future the papers delivered at the conference and included here address the issues of building a future focused scalable and adaptable infrastructure and of training the healthcare workforce necessary to support it Subjects covered include user participation in ICT development for older adults interactive patient websites application areas of multi user virtual environments in the healthcare context as well as governance training and assessing the quality of data in public health information systems The book will be of interest to all those policy makers and practitioners involved in the planning and implementation of information technology projects as part of the healthcare system

*Intelligent Decision Technologies 2017* Ireneusz Czarnowski,Robert J. Howlett,Lakhmi C. Jain,2017-05-24 The volume presents a collection of peer reviewed articles from the 9th KES International Conference on Intelligent Decision Technologies KES IDT 17 held in Vilamoura Algarve Portugal on 21 23 June 2017 The conference addressed critical areas of computer science as well as promoting knowledge transfer and the generation of new ideas in the field of intelligent decision making project management and data analysis The range of topics addressed includes methods of classification prediction data analysis decision support modeling social media and many more in such diverse areas as finance linguistics management and transportation

*Quality assessment of administrative data (QuAAD)* ,2007 Ontario data user issues that impacted the development of an evaluative data assessment tool in the province were identified as follows In general the developers of the Ontario data have little discussion with data users therefore they have limited understanding of the relevance and quality of their data from the users perspective Institute for Clinical Evaluative Sciences 1 July 2007 Quality Assessment of Administrative Data QuAAD An Opportunity for Enhancing Ontario s Health Data



Introduction Data quality indicators and definitions Data quality has been defined as the whole of planned and systematic procedures that take place before during and after data collection to guarantee the quality of data in a database for A description of the data collection and processing mechanisms who uses the data and for what purpose how the data are organized and accessed by users whether and how the data can be linked with other data sets and the timeliness of the data are all germane to understanding how well the data can be used and interpreted 19 About this report This is the first in a series of reports describing How the scan was conducted The peer reviewed literature was searched Medline and Embase from January 1996 to March 2006 using the following key words administrative data framework registry model electronic data data quality reporting data quality data quality benchmarking data improvement measurement indicators Primary key words for exclusion were primary data chart abs Institute for Clinical Evaluative Sciences 5 July 2007 Quality Assessment of Administrative Data QuAAD An Opportunity for Enhancing Ontario's Health Data Chapter 1 Exhibit 1 1 Environmental scan of peer reviewed articles about data quality measurement and reporting January 1996 to March 2006 A Peer reviewed studies Type of study Are the data Are the data Are the data Are the data Citation da Data Quality Carlo Batini, Monica Scannapieco, 2006-09-27 Poor data quality can seriously hinder or damage the efficiency and effectiveness of organizations and businesses The growing awareness of such repercussions has led to major public initiatives like the Data Quality Act in the USA and the European 2003 98 directive of the European Parliament Batini and Scannapieco present a comprehensive and systematic introduction to the wide set of issues related to data quality They start with a detailed description of different data quality dimensions like accuracy completeness and consistency and their importance in different types of data like federated data web data or time dependent data and in different data categories classified according to frequency of change like stable long term and frequently changing data The book's extensive description of techniques and methodologies from core data quality research as well as from related fields like data mining probability theory statistical data analysis and machine learning gives an excellent overview of the current state of the art The presentation is completed by a short description and critical comparison of tools and practical methodologies which will help readers to resolve their own quality problems This book is an ideal combination of the soundness of theoretical foundations and the applicability of practical approaches It is ideally suited for everyone researchers students or professionals interested in a comprehensive overview of data quality issues In addition it will serve as the basis for an introductory course or for self study on this topic **Meeting the Challenges of Data Quality Management** Laura Sebastian-Coleman, 2022-01-25 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

*Data Quality* Jack E. Olson, 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

**Handbook of Research on Innovations in Database Technologies and Applications** Viviana E. Ferraggine, Jorge H. Doorn, Laura C. Rivero, 2009-01-01 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher

## **Data Quality Assessment** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Data Quality Assessment**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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