

Thomas C. Redman, Ph.D.



Data Quality

The Field Guide

DATA MANAGEMENT

Data Quality The Field Guide

**Management Association, Information
Resources**



Data Quality The Field Guide:

Data Quality Thomas C. Redman, 2001-01-11 Can any subject inspire less excitement than data quality Yet a moment's thought reveals the ever growing importance of quality data From restated corporate earnings to incorrect prices on the web to the bombing of the Chinese Embassy the media reports the impact of poor data quality on a daily basis Every business operation creates or consumes huge quantities of data If the data are wrong time money and reputation are lost In today's environment every leader every decision maker every operational manager every consumer indeed everyone has a vested interest in data quality *Data Quality The Field Guide* provides the practical guidance needed to start and advance a data quality program It motivates interest in data quality describes the most important data quality problems facing the typical organization and outlines what an organization must do to improve It consists of 36 short chapters in an easy to use field guide format Each chapter describes a single issue and how to address it The book begins with sections that describe why leaders whether CIOs CFOs or CEOs should be concerned with data quality It explains the pros and cons of approaches for addressing the issue It explains what those organizations with the best data do And it lays bare the social issues that prevent organizations from making headway Field tips at the end of each chapter summarize the most important points Allows readers to go directly to the topic of interest Provides web based material so readers can cut and paste figures and tables into documents within their organizations Gives step by step instructions for applying most techniques and summarizes what works

Handbook of Data Quality Shazia Sadiq, 2013-08-13 The issue of data quality is as old as data itself However the proliferation of diverse large scale and often publically available data on the Web has increased the risk of poor data quality and misleading data interpretations On the other hand data is now exposed at a much more strategic level e g through business intelligence systems increasing manifold the stakes involved for individuals corporations as well as government agencies There the lack of knowledge about data accuracy currency or completeness can have erroneous and even catastrophic results With these changes traditional approaches to data management in general and data quality control specifically are challenged There is an evident need to incorporate data quality considerations into the whole data cycle encompassing managerial governance as well as technical aspects Data quality experts from research and industry agree that a unified framework for data quality management should bring together organizational architectural and computational approaches Accordingly Sadiq structured this handbook in four parts Part I is on organizational solutions i e the development of data quality objectives for the organization and the development of strategies to establish roles processes policies and standards required to manage and ensure data quality Part II on architectural solutions covers the technology landscape required to deploy developed data quality management processes standards and policies Part III on computational solutions presents effective and efficient tools and techniques related to record linkage lineage and provenance data uncertainty and advanced integrity constraints Finally Part IV is devoted to case studies of successful data quality initiatives that highlight

the various aspects of data quality in action The individual chapters present both an overview of the respective topic in terms of historical research and or practice and state of the art as well as specific techniques methodologies and frameworks developed by the individual contributors Researchers and students of computer science information systems or business management as well as data professionals and practitioners will benefit most from this handbook by not only focusing on the various sections relevant to their research area or particular practical work but by also studying chapters that they may initially consider not to be directly relevant to them as there they will learn about new perspectives and approaches **A**

Practical Field Guide for ISO 13485:2016 Erik V. Myhrberg, Joseph Raciti, Brandon L. Myhrberg, 2019-11-06 The purpose of this expanded field guide is to assist organizations step by step in implementing a quality management system QMS in conformance with ISO 13485 2016 whether from scratch or by transitioning from variations of the ISO 13485 family In keeping with ISO 9000 2015 s definition of quality as the degree to which a set of inherent characteristics fulfills requirements Myhrberg Raciti and Myhrberg have identified the requirements and inherent characteristics distinguishing features for this expanded field guide Within the guide each subclause containing requirements is the focus of a two page visual spread that consistently presents features that fulfill the requirements listed below This guide will Provide a user friendly guide to ISO 13485 2016 s requirements for implementation purposes Identify the documents documentation required along with recommendations on what to consider retaining adding to a QMS during ISO 13485 2016 implementation Guide internal auditor s regarding what to ask to verify that a conforming and effective QMS exists Direct management on what it must do and should consider to satisfy ISO 13485 2016 s enhanced requirements as well as on the responsibilities for top management Depict step by step in flowchart form what must occur to create an effective conforming QMS **Data Quality** Rupa Mahanti, 2019-03-18 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 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 About the Author Rupa Mahanti Ph D is a Business and Information Management consultant and has worked in different solution environments and industry sectors in the United States United Kingdom India and Australia She helps clients with activities such as business process mapping information management data quality and strategy Having a work experience academic industry and research of more than a decade and half Rupa has guided a doctoral dissertation and published a large number of research articles She is an associate editor with the journal Software Quality Professional and a reviewer for several international journals 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 Dr Mahanti provides a very detailed and thorough coverage of all aspects of data quality management that would suit all ranges of expertise from a beginner to an advanced practitioner With plenty of examples diagrams etc the book is easy to follow and will deepen your knowledge in the data domain I will certainly keep this handy as my go to reference I can t imagine the level of effort and passion that Dr Mahanti has put into this book that captures so much knowledge and experience for the benefit of the reader I would highly recommend this book for its comprehensiveness depth and detail A must have for a data practitioner at any level Clint D Souza CEO and Director CDZM Consulting

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

Principles of Data Quality Arthur D. Chapman, 2005

Forest Inventory and Analysis National Data Quality Assessment Report for 2000 to 2003 James E. Pollard, 2006 The Forest Inventory and Analysis program FIA is the key USDA Forest Service USFS program that provides the information needed to assess the status and trends in the environmental quality of the Nation s forests The goal of the FIA Quality Assurance QA program is to provide a framework to assure the production of complete accurate and unbiased forest information of known quality Specific Measurement Quality Objectives MQO for precision are designed to provide a window of performance that we are striving to achieve for every field measurement These data quality goals were developed from knowledge of measurement processes in forestry and forest ecology as well as the program needs of FIA This report is a

national summary and compilation of MQO analyses by regional personnel and the National QA Advisor The efficacy of the MQO as well as the measurement uncertainty associated with a given field measurement can be tested by comparing data from blind check plots where in addition to the field measurements of the standard FIA crew a second QA measurement of the plot was taken by a crew without knowledge of the first crew's results These QA data were collected between 2000 and 2003 and analyzed for measurement precision between FIA crews The charge of this task team was to use the blind check data to assess the FIA program's ability to meet data quality goals as stated by the MQO The results presented indicate that the repeatability was within project goals for a wide range of measurements across a variety of forest and nonforest environments However there were some variables that displayed noncompliance with MQO goals In general there were two types of noncompliance the first is where all the regions were below the MQO standard and the second is where a subset of the regions was below the MQO standards or was substantially different from the other remaining regions Results for each regional analysis are presented in appendix tables In the course of the study the task team discovered that there were difficulties in analyzing seedling species and seedling count variables for MQO compliance and recommends further study of the issue Also the task team addresses the issue of trees missed or added and recommends additional study of this issue Lastly the team points out that traditional MQO analysis of the disturbance and treatment variables may not be adequate Some attributes where regional compliance rates are dissimilar suggest that regional characteristics environmental variables such as forest type physiographic class and forest fragmentation may have an impact on the ability to obtain consistent measurements Additionally differences in data collection protocols may cause differences in compliance rates For example a particular variable may be measured with a calibrated instrument in one region while visually estimated in another region

Navigating the Labyrinth Laura Sebastian-Coleman, An Executive Guide to Data Management *Electronic Services: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources, 2010-05-31 With the increasing reliance on digital means to transact goods that are retail and communication based e services continue to develop as key applications for business finance industry and innovation Electronic Services Concepts Methodologies Tools and Applications is an all inclusive research collection covering the latest studies on the consumption delivery and availability of e services This multi volume book contains over 100 articles making it an essential reference for the evolving e services discipline *Field Guide for Collecting and Processing Stream-water Samples for the National Water-Quality Assessment Program* L. R. Shelton, 1994

Decoding **Data Quality The Field Guide**: Revealing the Captivating Potential of Verbal Expression

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