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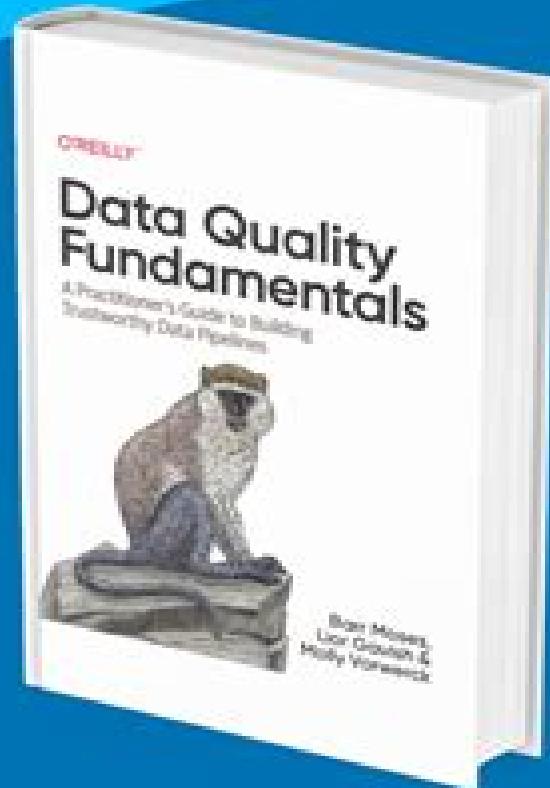
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# O'Reilly's Data Quality Fundamentals

A Practical Guide to  
Building Trustworthy Data  
Pipelines

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# Data Quality The Field Guide

**Linda Gorchels**

## **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.

**Forest Inventory and Analysis National Data Quality Assessment Report for 2000 to 2003**, 2006      **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 ocularly estimated in another region *FIA National Assessment of Data Quality for Forest Health Indicators* ,2009 **Data Quality** Rupa Mahanti,2019-03-18 This is not the kind of book that you ll read one time and be done with So scan it quickly the first time through to get an idea of its breadth Then dig in on one topic of special importance to your work Finally use it as a reference to guide your next steps learn details and broaden your perspective from the foreword by Thomas C Redman Ph D the Data Doc Good data is a source of myriad opportunities while bad data is a tremendous burden Companies that manage their data effectively are able to achieve a competitive advantage in the marketplace while bad data like cancer can weaken and kill an organization In this comprehensive book Rupa Mahanti provides guidance on the different aspects of data quality with the aim to be able to improve data quality Specifically the book addresses Causes of bad data quality bad data quality impacts and importance of data quality to justify the case for data quality Butterfly effect of data quality A detailed description of data quality dimensions and their measurement Data quality strategy approach Six Sigma DMAIC approach to data quality 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 factorsStudents 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 **Metadata for Semantic and Social Applications** Wolfgang Klas,2008 Metadata is a key aspect of our evolving infrastructure for information management social computing and scientific collaboration DC 2008 will focus on metadata challenges solutions and innovation in initiatives and activities underlying semantic and social applications Metadata is part of the fabric of social computing which includes the use of wikis blogs and tagging for collaboration and participation Metadata also underlies the development of semantic applications and the Semantic Web the representation and integration of multimedia knowledge structures on the basis of semantic models These two trends flow together in applications such as Wikipedia where authors collectively create structured information that can be extracted and used to enhance access to and use of information sources Recent discussion has focused on how existing bibliographic standards can be expressed as Semantic Web vocabularies to facilitate the ingration of library and cultural heritage data with other types of data Harnessing the efforts of content providers and end users to link tag edit and describe their information in interoperable ways participatory metadata is a key step towards providing knowledge environments that are scalable self correcting and evolvable DC 2008 will explore conceptual and practical issues in the development and deployment of semantic and social applications to meet the needs of specific communities of practice Journey to Data Quality Yang W. Lee,2006 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. **Journey to Data Quality** offers a roadmap that can be used by practitioners, executives and students for planning and implementing a viable data and information quality management program. This practical guide based on rigorous research and informed by real world examples describes the challenges of data management and provides the principles, strategies, tools and techniques necessary to meet them. The authors, all leaders in the data quality field for many years, discuss how to make the economic case for data quality and the importance of getting an organization's leaders on board. They outline different approaches for assessing data both subjectively by users and objectively using sampling and other techniques. They describe real problems and solutions including efforts to find the root causes of data quality problems at a healthcare organization and data quality initiatives taken by a large teaching hospital. They address setting company policy on data quality and finally they consider future challenges on the journey to data quality.

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

**Data Management** Richard T. Watson, 2006. Updated with the latest developments in the field, the Fifth Edition will help you design and create relational databases, formulate complex SQL queries, understand OLAP, use SQL with Java, learn how to use XML and prepare yourself for the real world of data management. Book Jacket

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Research Libraries Group, 1982

**The Product Manager's Field Guide** Linda Gorchels, 2003-05-19. The ideal companion to the author's bestselling *The Product Manager's Handbook*, *The Product Manager's Field Guide* expands upon the overview and the responsibilities of product managers and delves into specific skills, abilities and competencies to help them improve their performance. It provides readers with tools and exercises for functions such as marketing planning, forecasting and new product development and offers step by step instructions for activities designed to monitor and assess product planning.

efforts    **Field Guide to Academic Leadership** Robert M. Diamond,Bronwyn E. Adam,2002-10-09 Once again Bob Diamond has cut to the heart of the matter and has given us a field guide actually a handbook of real hands on academic leadership He has assembled an elite group of contributors who provide insights and guidance which will be useful for all academic leaders new and old public or private CEO or assistant Charles E Glassick senior associate emeritus The Carnegie Foundation

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**Arborist** ,2007    **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     *ARC User* ,1998     **Proceedings of the 1998 ACM SIGMOD International Conference on Management of Data** Laura Haas,Ashutosh Tiwary,1998     IEEE/WIC International Conference on Web Intelligence Jiming Liu,2003

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