

*Doug Vucevic and Wayne Yadow*

# Testing the Data Warehouse **PRACTICUM**

Assuring  
Data  
Content,  
Data  
Structures  
and  
Quality



# Testing The Data Warehouse Practicum Assuring Data Content Data Structures And Quality

**Yeoh, William, Talburt, John R., Zhou,  
Yinle**



## **Testing The Data Warehouse Practicum Assuring Data Content Data Structures And Quality:**

*Testing Data Warehouse Applications* Doug Vucevic, Mengxi Jett Zhang, 2011-08 A data warehouse is a valuable corporate asset used to envisage business strategies and make informed business decisions The enhanced access to information that a data warehouse provides enable an organization to make the time critical business decisions that are required to remain competitive Data warehousing needs a comprehensive assessment of the impact to the entire organization and development of a plan for an organized systematic solution As for the Quality Assurance QA teams it creates an exciting new opportunity that comes once in a life time It is nothing less than a new business paradigm which creates a new unlimited learning opportunities required to prosper in it As in any new paradigm most of us are unprepared for it That is a bad news Good news is so is everybody else The race is on The most nimble of us will flourish the most Read on with this book you will give yourself the head start     Testing the Data Warehouse Practicum Wayne Yadow Doug Vucevic &, 2012-08 The quality of a data warehouse DWH is the elusive aspect of it not because it is hard to achieve once we agree what it is but because it is difficult to describe We propose the notion that quality is not an attribute or a feature that a product has to possess but rather a relationship between that product and each and every stakeholder More specifically the relationship between the software quality and the organization that produces the products is explored Quality of data that populates the DWH is the main concern of the book therefore we propose a definition for data quality as fitness to serve each and every purpose Methods are proposed throughout the book to help readers achieve data warehouse quality     Information Quality and Governance for Business Intelligence Yeoh, William, Talburt, John R., Zhou, Yinle, 2013-12-31 Business intelligence initiatives have been dominating the technology priority list of many organizations However the lack of effective information quality and governance strategies and policies has been meeting these initiatives with some challenges Information Quality and Governance for Business Intelligence presents the latest exchange of academic research on all aspects of practicing and managing information using a multidisciplinary approach that examines its quality for organizational growth This book is an essential reference tool for researchers practitioners and university students specializing in business intelligence information quality and information systems     Building a Data Warehouse Vincent Rainardi, 2007-12-27 Building a Data Warehouse With Examples in SQL Server describes how to build a data warehouse completely from scratch and shows practical examples on how to do it Author Vincent Rainardi also describes some practical issues he has experienced that developers are likely to encounter in their first data warehousing project along with solutions and advice The relational database management system RDBMS used in the examples is SQL Server the version will not be an issue as long as the user has SQL Server 2005 or later The book is organized as follows In the beginning of this book chapters 1 through 6 you learn how to build a data warehouse for example defining the architecture understanding the methodology gathering the requirements designing the data models and creating the databases Then in chapters 7 through 10 you learn how to populate the data

warehouse for example extracting from source systems loading the data stores maintaining data quality and utilizing the metadata After you populate the data warehouse in chapters 11 through 15 you explore how to present data to users using reports and multidimensional databases and how to use the data in the data warehouse for business intelligence customer relationship management and other purposes Chapters 16 and 17 wrap up the book After you have built your data warehouse before it can be released to production you need to test it thoroughly After your application is in production you need to understand how to administer data warehouse operation What you ll learn A detailed understanding of what it takes to build a data warehouse The implementation code in SQL Server to build the data warehouse Dimensional modeling data extraction methods data warehouse loading populating dimension and fact tables data quality data warehouse architecture and database design Practical data warehousing applications such as business intelligence reports analytics applications and customer relationship management Who this book is for There are three audiences for the book The first are the people who implement the data warehouse This could be considered a field guide for them The second is database users admins who want to get a good understanding of what it would take to build a data warehouse Finally the third audience is managers who must make decisions about aspects of the data warehousing task before them and use the book to learn about these issues

Understanding Etl and Data Warehousing Jaiteg Singh,2011-01 Testing in data warehouse systems is substantial because it is oriented towards the correctness and validation of data information supplied for decision making Keeping in view the idiosyncratic characteristics of data warehouse testing and the complexity of data warehouse projects this research has reviewed and revised the scope of automated testing in assuring quality data warehouse solutions Initially a data set generator has been developed to generate synthetic but near to real data followed by the classification of anomalies in synthesized data with the help of a hand coded Extraction Transformation and Loading ETL routine To ensure quality data for a data warehouse and to promulgate the importance of Extraction Transformation and Loading ETL routines some test cases of prime importance were identified Later on automated testing procedures were embedded in hand coded ETL routine to ensure quality data The statistical analysis revealed major enhancement in data quality with the introduction of automated testing procedures The various data warehouse architectures have been analyzed to endorse a refined data warehouse architecture named as Data Sharehouse

**Automated Data Warehouse Testing** G. Suden,2015-03-13 Automated Data Warehousing Testing is a beginner s step by step guide for novice to intermediate level testers who want to try their hands at automated testing It provides step by step instructions for setting up the Automation Framework from scratch The framework is quite generic and as such can be applied to most data warehousing projects This book concentrates on the practical side of automated testing rather than the theoretical side It includes complete listings of the automated code for a sample data warehouse that is set up for testing The code listings explain the logic for the individual tests and generic functions The book covers An overview of the data warehouse architecture and modelling Set up the environment for

automation Software used is open source and freeware Set up the Automation Framework from scratch and add important features to it like logging information to console and files Set up the sample data warehouse for automation including the source systems and staging area Automate the testing of staging area dimension and fact tables Automate the testing of CSV and Microsoft Excel data sources Generate HTML reports of the test results Automate Data Profiling tests

**Building and Maintaining a Data Warehouse** Fon Silvers,2008-03-18 As it is with building a house most of the work necessary to build a data warehouse is neither visible nor obvious when looking at the completed product While it may be easy to plan for a data warehouse that incorporates all the right concepts taking the steps needed to create a warehouse that is as functional and user friendly as it is theoreti

**The Data Warehouse Method** Tom Debevoise,1999 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

**Exam Ref 70-767 Implementing a SQL Data Warehouse** Jose Chinchilla,Raj Uchhana,2017-11-09 Prepare for Microsoft Exam 70 767 and help demonstrate your real world mastery of skills for managing data warehouses This exam is intended for Extract Transform Load ETL data warehouse developers who create business intelligence BI solutions Their responsibilities include data cleansing as well as ETL and data warehouse implementation The reader should have experience installing and implementing a Master Data Services MDS model using MDS tools and creating a Master Data Manager database and web application The reader should understand how to design and implement ETL control flow elements and work with a SQL Service Integration Services package Focus on the expertise measured by these objectives Design and implement and maintain a data warehouse Extract transform and load data Build data quality solutionsThis Microsoft Exam Ref Organizes its coverage by exam objectives Features strategic what if scenarios to challenge you Assumes you have working knowledge of relational database technology and incremental database extraction as well as experience with designing ETL control flows using and debugging SSIS packages accessing and importing or exporting data from multiple sources and managing a SQL data warehouse Implementing a SQL Data Warehouse About the Exam Exam 70 767 focuses on skills and knowledge required for working with relational database technology About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Professional MCP or Microsoft Certified Solutions Associate MCSA certification that demonstrates your mastery of data warehouse management Passing this exam as well as Exam 70 768 Developing SQL Data Models earns you credit toward a Microsoft Certified Solutions Associate MCSA SQL 2016 Business Intelligence BI Development certification See full details at microsoft com learning

**Fundamentals of Data Warehouses** Matthias Jarke,Maurizio Lenzerini,Yannis Vassiliou,Panos Vassiliadis,2002-11-26 This book presents the first comparative review of the state of the art and the best current practices of data warehouses It covers source and data integration multidimensional aggregation query optimization metadata management quality assessment and design optimization A conceptual framework is presented by which the architecture and quality of a data warehouse can be assessed and improved using enriched metadata management combined with advanced

techniques from databases business modeling and artificial intelligence      Kimball's Data Warehouse Toolkit Classics Ralph Kimball, Margy Ross, Bob Becker, Joy Mundy, Warren Thornthwaite, 2009-04-06 Cowritten by Ralph Kimball the world's leading data warehousing authority Delivers real world solutions for the most time and labor intensive portion of data warehousing data staging or the extract transform load ETL process Delineates best practices for extracting data from scattered sources removing redundant and inaccurate data transforming the remaining data into correctly formatted data structures and then loading the end product into the data warehouse Offers proven time saving ETL techniques comprehensive guidance on building dimensional structures and crucial advice on ensuring data quality This book is also available as part of the Kimball's Data Warehouse Toolkit Classics Box Set ISBN 9780470479575 with the following 3 books The Data Warehouse Toolkit 2nd Edition 9780471200246 The Data Warehouse Lifecycle Toolkit 2nd Edition 9780470149775 The Data Warehouse ETL Toolkit 9780764567575      **The Data Warehouse Toolkit** Ralph Kimball, Margy Ross, 2011-08-08 This old edition was published in 2002 The current and final edition of this book is The Data Warehouse Toolkit The Definitive Guide to Dimensional Modeling 3rd Edition which was published in 2013 under ISBN 9781118530801 The authors begin with fundamental design recommendations and gradually progress step by step through increasingly complex scenarios Clear cut guidelines for designing dimensional models are illustrated using real world data warehouse case studies drawn from a variety of business application areas and industries including Retail sales and e commerce Inventory management Procurement Order management Customer relationship management CRM Human resources management Accounting Financial services Telecommunications and utilities Education Transportation Health care and insurance By the end of the book you will have mastered the full range of powerful techniques for designing dimensional databases that are easy to understand and provide fast query response You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts      **The Data Warehouse Lifecycle Toolkit** Ralph Kimball, Margy Ross, Warren Thornthwaite, Joy Mundy, Bob Becker, 2008-01-10 A thorough update to the industry standard for designing developing and deploying data warehouse and business intelligence systems The world of data warehousing has changed remarkably since the first edition of The Data Warehouse Lifecycle Toolkit was published in 1998 In that time the data warehouse industry has reached full maturity and acceptance hardware and software have made staggering advances and the techniques promoted in the premiere edition of this book have been adopted by nearly all data warehouse vendors and practitioners In addition the term business intelligence emerged to reflect the mission of the data warehouse wrangling the data out of source systems cleaning it and delivering it to add value to the business Ralph Kimball and his colleagues have refined the original set of Lifecycle methods and techniques based on their consulting and training experience The authors understand first hand that a data warehousing business intelligence DW BI system needs to change as fast as its surrounding organization evolves To that end they walk you through the detailed steps of designing developing and deploying a DW BI

system You ll learn to create adaptable systems that deliver data and analyses to business users so they can make better business decisions

**Building the Data Warehouse** W. H. Inmon,2005-10-03 The new edition of the classic bestseller that launched the data warehousing industry covers new approaches and technologies many of which have been pioneered by Inmon himself In addition to explaining the fundamentals of data warehouse systems the book covers new topics such as methods for handling unstructured data in a data warehouse and storing data across multiple storage media Discusses the pros and cons of relational versus multidimensional design and how to measure return on investment in planning data warehouse projects Covers advanced topics including data monitoring and testing Although the book includes an extra 100 pages worth of valuable content the price has actually been reduced from 65 to 55

**The Data Warehouse Challenge** Michael H. Brackett,1996-07-27 Information Technology Database Management the definitive source for understanding modern data architecture Other books have bits and pieces of architecture described but nowhere else is there a single source that has all the components of modern data architecture in one place in an organized and readable manner From the Foreword by William H Inmon The technology for compiling data has evolved to the point where most organizations now amass information faster than they can use it The bad news is that most of that data is disparate scattered across different databases and platforms The time has come to tame the data chaos and this invaluable resource shows you how Michael H Brackett schools you in a variety of techniques for creating a cohesive data structure that everyone in your organization can use Step by step he guides you through the entire process of planning building and programming a data warehouse tailored to your organization s needs You learn how to Prepare and evaluate existing data for a data warehouse Cross reference data so it s easy to find in all corporate locations Prepare data for client server systems Improve the consistency and quality of existing and future data Manage a data warehouse The Data Warehouse Challenge is an indispensable tool for database administrators and developers systems programmers and analysts and all those involved with helping their organizations rise to the challenge of taming data chaos

*DW 2.0: The Architecture for the Next Generation of Data Warehousing* W.H. Inmon,Derek Strauss,Genia Neushloss,2010-07-28 DW 2 0 The Architecture for the Next Generation of Data Warehousing is the first book on the new generation of data warehouse architecture DW 2 0 by the father of the data warehouse The book describes the future of data warehousing that is technologically possible today at both an architectural level and technology level The perspective of the book is from the top down looking at the overall architecture and then delving into the issues underlying the components This allows people who are building or using a data warehouse to see what lies ahead and determine what new technology to buy how to plan extensions to the data warehouse what can be salvaged from the current system and how to justify the expense at the most practical level This book gives experienced data warehouse professionals everything they need in order to implement the new generation DW 2 0 It is designed for professionals in the IT organization including data architects DBAs systems design and development professionals as well as data warehouse and knowledge

management professionals First book on the new generation of data warehouse architecture DW 2.0 Written by the father of the data warehouse Bill Inmon a columnist and newsletter editor of The Bill Inmon Channel on the Business Intelligence Network Long overdue comprehensive coverage of the implementation of technology and tools that enable the new generation of the DW metadata temporal data ETL unstructured data and data quality control Testing Data Vault-based Data Warehouse Connard N. Williams, 2015 Author's abstract Data warehouse DW projects are undertakings that require integration of disparate sources of data a well defined mapping of the source data to the reconciled data and effective Extract Transform and Load ETL processes Owing to the complexity of data warehouse projects great emphasis must be placed on an agile based approach with properly developed and executed test plans throughout the various stages of designing developing and implementing the data warehouse to mitigate against budget overruns missed deadlines low customer satisfaction and outright project failures Yet there are often attempts to test the data warehouse exactly like traditional back end databases and legacy applications or to downplay the role of quality assurance QA and testing which only serve to fuel the frustration and mistrust of data warehouse and business intelligence BI systems In spite of this there are a number of steps that can be taken to ensure DW BI solutions are successful highly trusted and stable In particular adopting a Data Vault DV based Enterprise Data Warehouse EDW can simplify and enhance various aspects of testing and curtail delays common in non DV based DW projects A major area of focus in this research is raw DV loads from source systems keeping transformations to a minimum in the ETL process which loads the DV from the source Certain load errors classified as permissible errors and enforced by business rules are kept in the Data Vault until correct values are supplied Major transformation activities are pushed further downstream to the next ETL process which loads and refreshes the Data Mart DM from the Data Vault

The Data Warehouse Toolkit Ralph Kimball, Margy Ross, 2013-07-01 Updated new edition of Ralph Kimball's groundbreaking book on dimensional modeling for data warehousing and business intelligence The first edition of Ralph Kimball's The Data Warehouse Toolkit introduced the industry to dimensional modeling and now his books are considered the most authoritative guides in this space This new third edition is a complete library of updated dimensional modeling techniques the most comprehensive collection ever It covers new and enhanced star schema dimensional modeling patterns adds two new chapters on ETL techniques includes new and expanded business matrices for 12 case studies and more Authored by Ralph Kimball and Margy Ross known worldwide as educators consultants and influential thought leaders in data warehousing and business intelligence Begins with fundamental design recommendations and progresses through increasingly complex scenarios Presents unique modeling techniques for business applications such as inventory management procurement invoicing accounting customer relationship management big data analytics and more Draws real world case studies from a variety of industries including retail sales financial services telecommunications education health care insurance e commerce and more Design dimensional databases that are easy to understand and provide fast query

response with The Data Warehouse Toolkit The Definitive Guide to Dimensional Modeling 3rd Edition      **Data Warehouse**  
Joyce Bischoff, Ted Alexander, 1997 A practical handbook for the Data Warehouse that is designed to prepare people to  
progress toward providing any data anywhere anytime Data Warehouse Practical Advice from the Experts will help technical  
managers project managers and members of data warehouse project teams in all aspects of planning designing developing  
implementing and administering a data warehouse It is a practical book based on real world experiences in building  
hundreds of data warehouses since each chapter is written by an internationally recognized authority in that particular field  
An essential handbook for Technical Managers Project Managers Technical Personnel Data Warehouse Project Teams and  
end users who want to provide access to the wealth of corporate data that has remained unavailable to those who need it

**Building the Data Warehouse** William H. Inmon, 1992 Data warehouses provide a much needed strategy for  
organizations to collect store and analyze vast amounts of business data As businesses expand both brick and mortar and  
online activities the field of data warehousing has become increasingly important Since it was first published in 1990 W H  
Inmon s Building the Data Warehouse has been the bible of data warehousing it is the book that launched the data  
warehousing industry and it remains the preeminent introduction to the subject This new edition covers the latest  
developments with this technology many of which have been pioneered by Inmon himself BOOK JACKET

## **Testing The Data Warehouse Practicum Assuring Data Content Data Structures And Quality** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Testing The Data Warehouse Practicum Assuring Data Content Data Structures And Quality**," published by a very 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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