

# IMPLEMENTING A MICROSOFT SQL 2016 DATA WAREHOUSE

(MS-20767, EXAM PREP 70-767)



Microsoft®  
SQL Server™



# Implementing A Microsoft Sql 2016 Data Warehouse Ms 20767

**Clifford Lane**



## **Implementing A Microsoft Sql 2016 Data Warehouse Ms 20767:**

Exam Ref 70-767 Implementing a SQL Data Warehouse Jose Chinchilla, Raj Uchhana, 2017 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 solutions This 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](http://microsoft.com/learning) SQL Server 70-767 Scot Reagin, 2018 8 Hours of Video Instruction Prepare for Microsoft Exam 70 767 Implementing a Data Warehouse Using SQL and develop practical skills to design configure and manage a data warehouse with SQL Server Overview In this video training Scot Reagin couples discussion with demonstration to give you not only the technical and procedural aspects of implementing a data warehouse but also a basis to make design choices that will make your job more efficient and effective About the Instructor Scot Reagin s technology career spans the entire history of what we now think of as Business Intelligence Starting with software he developed for mini computers in the early 1980s to the first Cube technologies of the 1990s and Self Service BI and contemporary Predictive Analytics Scot has consistently designed developed and delivered solutions for organizations across the evolving BI marketplace Scot is a TDWI Certified Business Intelligence Professional and Board Member of the Colorado Data Warehouse Institute He is also a Certified Data Vault Data Modeler and active member of the Genesee Academy Scot is the author of Microsoft 70 768 Developing SQL Data Models LiveLessons Video Training Skill Level Intermediate Learn How To Design and implement dimension tables and fact tables Design Rowstore and Columnstore indexes Design storage for a data solution Implement SSIS packages Who Should Take This Course IT professionals responsible for designing

implementing or administering SQL Server data warehouses BI developers pursuing Microsoft Certification Course Requirements Basic understanding of extract transform and load ETL and data warehouses Familiarity with Microsoft SQL Server client tools About Pearson Video Training Pearson publishes expert led video tutorials covering a wide selection of technology topics designed to teach you the skills you need to succeed These professional and personal technology videos feature world leading author instructors published by your trusted technology brands Addison Wesley Cisco Press Pearson IT Certification Prentice Hall Sams and Que Topics include IT Certification Network Security Cisco Technology Programming Web Development Mobile Development and more Learn more about Pearson Video training at <http://www.informit.com/video>

**Exam 70-463: Implementing a Data Warehouse with Microsoft® SQL Server® 2012: Training Kit** Dejan Sarka, Matija Lah, and Grega Jerkic, *The Microsoft Data Warehouse Toolkit* Joy Mundy, Warren Thornthwaite, 2007-03-22 This groundbreaking book is the first in the Kimball Toolkit series to be product specific Microsoft's BI toolset has undergone significant changes in the SQL Server 2005 development cycle SQL Server 2005 is the first viable full functioned data warehouse and business intelligence platform to be offered at a price that will make data warehousing and business intelligence available to a broad set of organizations This book is meant to offer practical techniques to guide those organizations through the myriad of challenges to true success as measured by contribution to business value Building a data warehousing and business intelligence system is a complex business and engineering effort While there are significant technical challenges to overcome in successfully deploying a data warehouse the authors find that the most common reason for data warehouse project failure is insufficient focus on the business users and business problems In an effort to help people gain success this book takes the proven Business Dimensional Lifecycle approach first described in best selling *The Data Warehouse Lifecycle Toolkit* and applies it to the Microsoft SQL Server 2005 tool set Beginning with a thorough description of how to gather business requirements the book then works through the details of creating the target dimensional model setting up the data warehouse infrastructure creating the relational atomic database creating the analysis services databases designing and building the standard report set implementing security dealing with metadata managing ongoing maintenance and growing the DW BI system All of these steps tie back to the business requirements Each chapter describes the practical steps in the context of the SQL Server 2005 platform Intended Audience The target audience for this book is the IT department or service provider consultant who is Planning a small to mid range data warehouse project Evaluating or planning to use Microsoft technologies as the primary or exclusive data warehouse server technology Familiar with the general concepts of data warehousing and business intelligence The book will be directed primarily at the project leader and the warehouse developers although everyone involved with a data warehouse project will find the book useful Some of the book's content will be more technical than the typical project leader will need other chapters and sections will focus on business issues that are interesting to a database administrator or programmer as guiding information The book is

focused on the mass market where the volume of data in a single application or data mart is less than 500 GB of raw data While the book does discuss issues around handling larger warehouses in the Microsoft environment it is not exclusively or even primarily concerned with the unusual challenges of extremely large datasets About the Authors JOY MUNDY has focused on data warehousing and business intelligence since the early 1990s specializing in business requirements analysis dimensional modeling and business intelligence systems architecture Joy co founded InfoDynamics LLC a data warehouse consulting firm then joined Microsoft WebTV to develop closed loop analytic applications and a packaged data warehouse Before returning to consulting with the Kimball Group in 2004 Joy worked in Microsoft SQL Server product development managing a team that developed the best practices for building business intelligence systems on the Microsoft platform Joy began her career as a business analyst in banking and finance She graduated from Tufts University with a BA in Economics and from Stanford with an MS in Engineering Economic Systems WARREN THORNTON has been building data warehousing and business intelligence systems since 1980 Warren worked at Metaphor for eight years where he managed the consulting organization and implemented many major data warehouse systems After Metaphor Warren managed the enterprise wide data warehouse development at Stanford University He then co founded InfoDynamics LLC a data warehouse consulting firm with his co author Joy Mundy Warren joined up with WebTV to help build a world class multi terabyte customer focused data warehouse before returning to consulting with the Kimball Group In addition to designing data warehouses for a range of industries Warren speaks at major industry conferences and for leading vendors and is a long time instructor for Kimball University Warren holds an MBA in Decision Sciences from the University of Pennsylvania s Wharton School and a BA in Communications Studies from the University of Michigan RALPH KIMBALL PH D has been a leading visionary in the data warehouse industry since 1982 and is one of today s most internationally well known authors speakers consultants and teachers on data warehousing He writes the Data Warehouse Architect column for Intelligent Enterprise formerly DBMS magazine

### **Designing and Implementing a Data Warehouse Using Microsoft SQL Server 7. 0**

Logical Operations LLC,2003 **Training Kit (Exam 70-463)** Dejan Sarka,Grega Jerkic,Matija Lah,2012 Ace your preparation for Microsoft Certification Exam 70 463 with this 2 in 1 Training Kit from Microsoft Press Work at your own pace through a series of lessons and practical exercises and then assess your skills with online practice tests featuring multiple customizable testing options Maximize your performance on the exam by learning how to Design and implement a data warehouse Develop and enhance SQL Server Integration Services packages Manage and maintain SQL Server Integration Services packages Build data quality solutions Implement custom code in SQL Server Integration Services packages

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

**Implementing a Data Warehouse with Microsoft SQL Server 2012**, 2014 Learn how to design and implement an enterprise data warehouse with Microsoft SQL Server **The Microsoft Data Warehouse Toolkit** Joy Mundy, Warren Thornthwaite, 2011-02-25 Best practices and invaluable advice from world renowned data warehouse experts In this book leading data warehouse experts from the Kimball Group share best practices for using the upcoming Business Intelligence release of SQL Server referred to as SQL Server 2008 R2 In this new edition the authors explain how SQL Server 2008 R2 provides a collection of powerful new tools that extend the power of its BI toolset to Excel and SharePoint users and they show how to use SQL Server to build a successful data warehouse that supports the business intelligence requirements that are common to most organizations Covering the complete suite of data warehousing and BI tools that are part of SQL Server 2008 R2 as well as Microsoft Office the authors walk you through a full project lifecycle including design development deployment and maintenance Features more than 50 percent new and revised material that covers the rich new feature set of the SQL Server 2008 R2 release as well as the Office 2010 release Includes brand new content that focuses on PowerPivot for Excel and SharePoint Master Data Services and discusses updated capabilities of SQL Server Analysis Integration and

Reporting Services Shares detailed case examples that clearly illustrate how to best apply the techniques described in the book The accompanying Web site contains all code samples as well as the sample database used throughout the case studies The Microsoft Data Warehouse Toolkit Second Edition provides you with the knowledge of how and when to use BI tools such as Analysis Services and Integration Services to accomplish your most essential data warehousing tasks **The Data**

**Warehouse Lab** Amin Jalali,2017-10-10 This book aims to help students and practitioners who are new to data warehousing to start developing a new data warehouse project from scratch It shows different phases of data warehousing projects through a simple case So readers can experience the full data warehouse development life cycle through a simple example step by step The book is written for the novice user so there is no requirement for previous experience of working with MS SQL Server and other tools However it expects readers to know basics of databases like the table columns etc The book does not aim to teach data warehousing multi dimensional design principle nor play the role of a comprehensive reference book on Microsoft Business Intelligence Toolset It only intends to help readers to gets a hands on experience on data warehouse development quickly It aims to give readers basic understanding and experience so they become more confident in using reference books and online materials The book does not go through the installation of tools that are used in the sample project The readers need to install the following tools in order to follow the steps i e Microsoft SQL Server Database Engine Microsoft SQL Server Integration Services SSIS 2017 Microsoft SQL Server Analysis Services SSAS 2017 Microsoft SQL Server Management Studio SSMS Microsoft Excel and Microsoft Power BI **Implementing a Data Warehouse with**

**Microsoft SQL Server 2012** Mark Long,2013 Business data analysis becomes more important as the amount of data involved in the analysis grows This data is in various database management products spreadsheets and documents A data warehouse collects needed data and organizes the data in a form that solves the complexities and performance issues that line of business applications present In this VTC course author Mark Long walks you through the information you need to get prepared to take Microsoft s 70 463 certification exam Implementing a Data Warehouse with Microsoft SQL Server 2012 This exam is part of Microsoft s MCSA SQL Server Certification Resource description page [Hands-On SQL Server 2019](#)

[Analysis Services](#) Steven Hughes,2020-10-22 Get up to speed with the new features added to Microsoft SQL Server 2019 Analysis Services and create models to support your business Key FeaturesExplore tips and tricks to design develop and optimize end to end data analytics solutions using Microsoft s technologiesLearn tabular modeling and multi dimensional cube design development using real world examplesImplement Analysis Services to help you make productive business decisionsBook Description SQL Server Analysis Services SSAS continues to be a leading enterprise scale toolset enabling customers to deliver data and analytics across large datasets with great performance This book will help you understand MS SQL Server 2019 s new features and improvements especially when it comes to SSAS First you ll cover a quick overview of SQL Server 2019 learn how to choose the right analytical model to use and understand their key differences You ll then

explore how to create a multi dimensional model with SSAS and expand on that model with MDX Next you ll create and deploy a tabular model using Microsoft Visual Studio and Management Studio You ll learn when and how to use both tabular and multi dimensional model types how to deploy and configure your servers to support them and design principles that are relevant to each model The book comes packed with tips and tricks to build measures optimize your design and interact with models using Excel and Power BI All this will help you visualize data to gain useful insights and make better decisions Finally you ll discover practices and tools for securing and maintaining your models once they are deployed By the end of this MS SQL Server book you ll be able to choose the right model and build and deploy it to support the analytical needs of your business What you will learn Determine the best analytical model using SSAS Cover the core aspects involved in MDX including writing your first query Implement calculated tables and calculation groups new in version 2019 in DAX Create and deploy tabular and multi dimensional models on SQL 2019 Connect and create data visualizations using Excel and Power BI Implement row level and other data security methods with tabular and multi dimensional models Explore essential concepts and techniques to scale manage and optimize your SSAS solutions Who this book is for This Microsoft SQL Server book is for BI professionals and data analysts who are looking for a practical guide to creating and maintaining tabular and multi dimensional models using SQL Server 2019 Analysis Services A basic working knowledge of BI solutions such as Power BI and database querying is required Pro SQL Server on Microsoft Azure Pranab Mazumdar, Sourabh Agarwal, Amit Banerjee, 2016-08-23 Learn the basics of Microsoft Azure and see how SQL Server on Azure VMs Infrastructure as a Service and Azure SQL Databases Platform as a Service work This concise book shows you how to deploy operate and maintain your data using any one or a combination of these offerings along with your on premise environment Pro SQL Server on Microsoft Azure is a quintessential book for any IT professional who is planning to host their data on Microsoft Azure This book will not only equip you with the tips tricks and tools to manage SQL Server offerings on Azure but will also help you in deciding between PaaS IaaS or hybrid In the ever changing world of operations IT administrators and SQL Server DBAs often find that the biggest challenges occur once they ve deployed to the cloud This is precisely why Pro SQL Server on Microsoft Azure was written it will help you master today s cloud world What You ll Learn Understand the Microsoft Azure IaaS architecture Work with Azure Storage and Networking Deploy SQL Server on Azure VMs using best practices Apply effective security principles to SQL Azure Databases Measure and optimize the performance of SQL Server offerings on Azure Implement Business continuity and disaster recovery options with Azure SQL Databases Who This Book Is For This book is for IT admins and SQL Server DBAs who are managing or would be managing SQL Server deployments on Microsoft Azure v **Implementing a Data Warehouse with Microsoft SQL Server 2012** ,2014 Learn how to design and implement an enterprise data warehouse Microsoft Certified Trainer Martin Guidry shows how to design fact and dimension tables using both the star and snowflake techniques use data quality services to cleanse data and implement an ETL process with SQL Server integration

services Microsoft SQL Server 7.0 Data Warehousing Training Kit Microsoft Corporation,1999 **Microsoft Azure SQL Data Warehouse** Tom Coffing,Todd Wilson,2015 One of the most popular databases worldwide is Microsoft s SQL Server Now Microsoft has introduced their MPP data warehouse system designed for the cloud called the Microsoft Azure SQL Data Warehouse The Microsoft Azure Cloud is rapidly making T SQL one of the standards of SQL among millions of companies This book details the architecture of the Azure SQL Data Warehouse and the SQL commands available This book is perfect for anyone who works with the Microsoft Azure SQL Data Warehouse This book educates readers on how to create tables and indexes how the data is distributed and how the system process the data Plus it is followed up with over 700 pages of SQL examples and explanations This book is a must have for anyone designing implementing or querying the system

*Designing and Implementing a Data Warehouse Using Microsoft SQL Server 7. 0* Element K Content LLC,2003

Tabular Modeling in Microsoft SQL Server Analysis Services Marco Russo,Alberto Ferrari,2017-04-12 Build agile and responsive business intelligence solutions Create a semantic model and analyze data using the tabular model in SQL Server 2016 Analysis Services to create corporate level business intelligence BI solutions Led by two BI experts you will learn how to build deploy and query a tabular model by following detailed examples and best practices This hands on book shows you how to use the tabular model s in memory database to perform rapid analytics whether you are new to Analysis Services or already familiar with its multidimensional model Discover how to Determine when a tabular or multidimensional model is right for your project Build a tabular model using SQL Server Data Tools in Microsoft Visual Studio 2015 Integrate data from multiple sources into a single coherent view of company information Choose a data modeling technique that meets your organization s performance and usability requirements Implement security by establishing administrative and data user roles Define and implement partitioning strategies to reduce processing time Use Tabular Model Scripting Language TMSL to execute and automate administrative tasks Optimize your data model to reduce the memory footprint for VertiPaq Choose between in memory VertiPaq and pass through DirectQuery engines for tabular models Select the proper hardware and virtualization configurations Deploy and manipulate tabular models from C and PowerShell using AMO and TOM libraries Get code samples including complete apps at <https://aka.ms/tabular-downloads> About This Book For BI professionals who are new to SQL Server 2016 Analysis Services or already familiar with previous versions of the product and who want the best reference for creating and maintaining tabular models Assumes basic familiarity with database design and business analytics concepts *Exam 70-463 Implementing a Data Warehouse with Microsoft SQL Server 2012 Lab Manual* Microsoft Official Academic Course,2013-12-16 **MCSA SQL 2016 BI Development Exam Ref 2-pack** Jose Chinchilla,Stacia Varga,2017-12-01 Direct from Microsoft these Exam Refs are the official study guides for the new Microsoft 70 767 Implementing a SQL Data Warehouse and the new Microsoft 70 768 Developing SQL Data Models certification exams Exam Ref 70 767 Implementing a SQL Data Warehouse the first book in this bundle ISBN 978150936473 offers professional level

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