

Oracle8i Data Warehousing Guide

Overview of Data Warehousing with Materialized Views

Typically, data flows from one or more online transaction processing (OLTP) databases into a data warehouse on a monthly, weekly, or daily basis. The data is usually processed in a *staging file* before being added to the data warehouse. Data warehouses typically range in size from tens of gigabytes to a few terabytes, usually with the vast majority of the data stored in a few very large fact tables.

One technique employed in data warehouses to improve performance is the creation of summaries, or aggregates. They are a special kind of aggregate view that improves query execution times by precalculating expensive joins and aggregation operations prior to execution and storing the results in a table in the database. For example, a table could be created to contain the sum of sales by region and by product. Prior to Oracle8i, organizations using summaries spent a significant amount of time manually creating summaries, identifying which ones to create, indexing the summaries, updating them, and advising their users on which ones to use. The introduction of summary management in the Oracle server eases the workload of the DBA and means the end user no longer has to be aware of which summaries have been defined. The DBA creates one or more materialized views, which are the equivalent of a summary. The end user queries the tables and views in the database and the query rewrite mechanism in the Oracle server automatically rewrites the SQL query to use the summary tables. This mechanism significantly improves the response time for returning results from the query and eliminates the need for the end user or database application to be aware of the materialized views that exist within the data warehouse.

The summaries or aggregates that are referred to in this book and in literature on data warehousing are created in Oracle using a schema object called a *materialized view*. Materialized views can perform a number of roles, such as improving query performance or providing replicated data, as described below.

Although materialized views are usually accessed via the query rewrite mechanism, an end-user or database application can construct queries that directly access the summaries. However, serious consideration should be given to whether users should be allowed to do this, because, once the summaries are directly referenced in queries, the DBA will not be free to drop and create summaries without affecting applications.

It is highly recommended that you read Oracle's Data Warehouse guide for Materialized Views. It is an excellent overview of all the capabilities and requirements.

Typical Sales Star Schema



Oracle Database Data Warehousing Guide

Marco Cascella



Oracle Database Data Warehousing Guide:

Essential Oracle8i Data Warehousing Gary Dodge, Tim Gorman, 2000-09-20 A soup to nuts guide to building and managing high performance Oracle8i data warehouses Expert Oracle Database Architecture Thomas Kyte, Darl Kuhn, 2014-11-10 Now in its third edition this best selling book continues to bring you some of the best thinking on how to apply Oracle Database to produce scalable applications that perform well and deliver correct results Tom Kyte and Darl Kuhn share a simple philosophy you can treat Oracle as a black box and just stick data into it or you can understand how it works and exploit it as a powerful computing environment If you choose the latter then you ll find that there are few information management problems that you cannot solve quickly and elegantly This fully revised third edition covers the developments up to Oracle Database 12c Significant new content is included surrounding Oracle s new cloud feature set and especially the use of pluggable databases Each feature is taught in a proof by example manner not only discussing what it is but also how it works how to implement software using it and the common pitfalls associated with it Don t treat Oracle Database as a black box Get this book Get under the hood Turbo charge your career Revised to cover Oracle Database 12c Proof by example approach Let the evidence be your guide Dives deeply into Oracle Database s most powerful features *New Trends in Data Warehousing and Data Analysis* Stanislaw Kozielski, Robert Wrembel, 2008-10-23 Most of modern enterprises institutions and organizations rely on knowledge based management systems In these systems knowledge is gained from data analysis Today knowledge based management systems include data warehouses as their core components Data integrated in a data warehouse are analyzed by the so called On Line Analytical Processing OLAP applications designed to discover trends patterns of behavior and anomalies as well as finding dependencies between data Massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration and processing challenging New Trends in Data Warehousing and Data Analysis brings together the most recent research and practical achievements in the DW and OLAP technologies It provides an up to date bibliography of published works and the resource of research achievements Finally the book assists in the dissemination of knowledge in the field of advanced DW and OLAP **Oracle Essentials** Rick Greenwald, Robert Stackowiak, Jonathan Stern, 2007-11-01 Oracle is an enormous system with myriad technologies options and releases Most users even experienced developers and database administrators find it difficult to get a handle on the full scope of the Oracle database And as each new Oracle version is released users find themselves under increasing pressure to learn about a whole range of new technologies The latest challenge is Oracle Database 11g This book distills an enormous amount of information about Oracle into a compact easy to read volume filled with focused text illustrations and helpful hints It contains chapters on Oracle products options data structures and overall architecture for Oracle Database 11g as well as earlier releases Oracle Database 10g Oracle9i and Oracle8i Installing running managing monitoring networking and tuning Oracle including Enterprise Manager EM and Oracle s self tuning and management

capabilities and using Oracle security auditing and compliance a new chapter in this edition Multiuser concurrency data warehouses distributed databases online transaction processing OLTP high availability and hardware architectures e g SMP clusters NUMA and grid computing Features beyond the Oracle database Oracle Application Express Fusion Middleware including Oracle Application Server and database SOA support as a Web services provider The latest Oracle Database 11g features query result set caching Automatic Memory Management the Real Application Testing Advanced Compression Total Recall and Active Data Guard Option Options changes to the OLAP Option transparently accessed and managed as materialized views the Flashback transaction command transparent data encryption the Support Workbench and diagnosability infrastructure and partitioning enhancements including interval and new composite types For new Oracle users DBAs developers and managers Oracle Essentials provides an invaluable all in one introduction to the full range of Oracle features and technologies including the just released Oracle Database 11g features But even if you already have a library full of Oracle documentation you ll find that this compact book is the one you turn to again and again as your one stop truly essential reference Oracle Essentials gives a clear explanation of the key database concepts and architecture underlying the Oracle database It s a great reference for anyone doing development or management of Oracle databases

Andrew Mendelsohn Senior Vice President Database Server Technologies Oracle Corporation **Oracle Database 10g**

Data Warehousing ,2005 Oracle 10g Data Warehousing is a guide to using the Data Warehouse features in the latest version of Oracle Oracle Database 10g Written by people on the Oracle development team that designed and implemented the code and by people with industry experience implementing warehouses using Oracle technology this thoroughly updated and extended edition provides an insider s view of how the Oracle Database 10g software is best used for your application It provides a detailed look at the new features of Oracle Database 10g and other Oracle products and how these are used in the data warehouse This book will show you how to deploy the Oracle database and correctly use the new Oracle Database 10g features for your data warehouse It contains walkthroughs and examples on how to use tools such as Oracle Discoverer and Reports to query the warehouse and generate reports that can be deployed over the web and gain better insight into your business This how to guide provides step by step instructions including screen captures to make it easier to design build and optimize performance of the data warehouse or data mart It is a must have reference for database developers administrators and IT professionals who want to get to work now with all of the newest features of Oracle Database 10g It provides a detailed look at the new features of Oracle Database 10g and other Oracle products and how these are used in the data warehouse including How to use the Summary Management features including Materialized Views and query rewrite to best effect to radically improve query performance How to deploy business intelligence to the Web to satisfy today s changing and demanding business requirements Using Oracle OLAP and Data Mining options How to understand the warehouse hardware environment and how it is used by new features in the database including how to implement a high availability warehouse

environment Using the new management infrastructure in Oracle Database 10g and how this helps you to manage your warehouse environment

Oracle DBA Guide to Data Warehousing and Star Schemas Bert Scalzo, 2003 The ultimate reference guide to successful implementation of star schemas within Oracle data warehouses this edition also covers Oracle 8i and Oracle 9i with real world examples sample code and benchmarks to illustrate key concepts

Contemporary Issues in Database Design and Information Systems Development Siau, Keng, 2007-04-30 This book presents the latest research ideas and topics on databases and software development It provides a representation of top notch research in all areas of database and information systems development Provided by publisher

Beginning Oracle Database 11g Administration Ignatius Fernandez, 2009-03-25 This book written by veteran Oracle database administrator Iggy Fernandez a regular on the Oracle conference circuit and the editor of NoCOUG Journal is a manageable introduction to key Oracle database administration topics including planning installation monitoring troubleshooting maintenance and backups to name just a few As is clear from the table of contents this book is not simply a recitation of Oracle Database features such as what you find in the reference guides available for free download on the Oracle web site For example the chapter on database monitoring explains how to monitor database availability database changes database security database backups database growth database workload database performance and database capacity The chapters of this book are logically organized into four parts that closely track the way your database administration career will naturally evolve Part 1 gives you necessary background in relational database theory and Oracle Database concepts Part 2 teaches you how to implement an Oracle database correctly Part 3 exposes you to the daily routine of a database administrator and Part 4 introduces you to the fine art of performance tuning Each chapter has exercises designed to help you apply the lessons of the chapter Each chapter also includes a list of reference works that contain more information on the topic of the chapter In this book you ll find information that you won t find in other books on Oracle Database Here you ll discover not only technical information but also guidance on work practices that are as vital to your success as technical skills The author s favorite chapter is The Big Picture and the Ten Deliverables If you take the lessons in that chapter to heart you can quickly become a much better Oracle database administrator than you ever thought possible

Pro Oracle SQL Karen Morton, Kerry Osborne, Robyn Sands, Riyaj Shamsudeen, Jared Still, 2013-10-28 Pro Oracle SQL Second Edition unlocks the power of SQL in the Oracle database one of the most potent SQL implementations on the market today To master it requires a multi pronged approach learn the language features learn how and why the language features work learn the supporting features that Oracle provides to help use the language effectively and learn to think and work in sets Karen Morton has updated the content for Oracle version 12c and helps you master powerful aspects of Oracle SQL from the inside out You ll learn analytic functions the MODEL clause and advanced grouping syntax features that will help in creating good queries for reporting and business intelligence applications Pro Oracle SQL Second Edition also helps you minimize parsing overhead read execution plans test

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Pro Oracle SQL Development Jon Heller, 2022-12-26 Write SQL statements that are more powerful simpler and faster using the advanced features of Oracle SQL This updated second edition includes the newest advanced features improved data structures such as more JSON support and more table options improved automated processes such as automatic indexing and improved SQL language extensions such as polymorphic table functions SQL macros and the multilingual engine Pro Oracle SQL Development is for anyone who already knows Oracle SQL and is ready to take their skills to the next level This book provides a clearer way of thinking about SQL by building sets and it provides practical advice for using complex features while avoiding anti patterns that lead to poor performance and wrong results Relevant theories real world best practices and style guidelines help you get the most out of Oracle SQL Many developers testers analysts and administrators use Oracle databases frequently but their queries are limited because they do not take advantage of Oracle s

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Oracle8 Data Warehousing Gary Dodge,Tim Gorman,1998-03-30 A hands on guide to designing building and manageing Oracle data warehouses

Mastering Oracle PL/SQL Christopher Beck,Joel Kallman,Chaim Katz,David C. Knox,Connor McDonald,2008-01-01 Do you need more from a PL SQL book than just the correct keywords and some pretty syntax diagrams Have you been searching in vain for real world examples and genuine strategies for maximizing the benefits of PL SQL within your organization You ll find them here in Mastering Oracle PL SQL Practical Solutions the inaugural title of the pioneering OakTable Press series from Apress This isn t a tutorial on how to code PL SQL It s designed to show you how to code PL SQL well It shows you how to write code that will run quickly and wont break in high load multiuser environments It covers the vast array of the functionality that PL SQL provides including effective handling of relational and abstract data security triggers dynamic web content presentation from within the database creation of a DBA toolkit and effective debugging techniques This book sets out to redress the unjust criticism leveled at PL SQL in years gone by It gives you the tools and techniques to ensure that whatever your needs are the PL SQL you build will run as efficiently as possible The practical solutions provided in this book will help you to realize the true power and functionality PL SQL can offer your projects If you re brand new to PL SQL then you ll want to take some time to get familiar with the language before tackling this book It s not for the total beginner But once youre up and running you ll find this book an invaluable guide for ensuring that the PL SQL solutions you build are robust perform well and are easy to maintain

Oracle Database 12c Release 2 Performance Tuning Tips & Techniques Richard Niemiec,2017-03-22 Proven Database Optimization Solutions Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec Filled with real world case studies and best practices Oracle Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring troubleshooting and optimization methods Find out how to identify and fix bottlenecks on premises and in the cloud

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Troubleshooting Oracle Performance 2nd Edition helps by providing a systematic approach to addressing the underlying causes of poor database application performance. The author freely shares his experience while explaining the underlying foundations of how SQL statements are executed by the Oracle database engine. You'll be able to draw a solid foundation of theory and shared experience as you face head-on the performance challenges in your daily work. Written for developers by an application developer who has learned by doing. Gives a systematic approach to solving database application performance problems. Helps you plan for performance as you would for any other application requirement.

Beginning Oracle SQL
Tim Gorman, Inger Jorgensen, Melanie Caffrey, Lex deHaan, 2014-03-18. Beginning Oracle SQL is your introduction to the interactive query tools and specific dialect of SQL used with Oracle Database. These tools include SQL Plus and SQL Developer. SQL Plus is the one tool any Oracle developer or database administrator can always count on and it is widely used in creating scripts to automate routine tasks. SQL Developer is a powerful graphical environment for developing and debugging queries. Oracle's is possibly the most valuable dialect of SQL from a career standpoint. Oracle's database engine is widely used in corporate environments worldwide. It is also found in many government applications. Oracle SQL implements many features not found in competing products. No developer or DBA working with Oracle can afford to be without knowledge of these features and how they work because of the performance and expressiveness they bring to the table. Written in an easygoing and example-based style, Beginning Oracle SQL is the book that will get you started down the path to successfully writing SQL statements and getting results from Oracle Database. Takes an example-based approach with clear and authoritative explanations. Introduces both SQL and the query tools used to execute SQL statements. Shows how to create tables, populate them with data, and then query that data to generate business results.

Expert Oracle SQL
Tony Hasler, 2014-07-05. Expert Oracle SQL: Optimization, Deployment, and Statistics is about optimizing individual SQL statements, especially on production database systems. This Oracle-specific book begins by assuming you have already identified a particular SQL statement and are considering taking steps to improve its performance. The book describes a systematic process by which to diagnose a problem, identify a fix, and to implement that fix safely in a production system. You'll learn not only to improve performance when it is too slow but also to stabilize performance when it is too variable. You'll learn about system statistics and how the Cost-Based Optimizer uses them to determine a suitable execution plan for a given statement. That knowledge provides the foundation from which to identify the root cause and to stabilize and improve performance. Next, after identifying a problem and the underlying root cause, is to put in place a solution. Expert Oracle SQL: Optimization, Deployment, and Statistics explains how to apply various remedies such as changing the SQL statement, adding hints, changing the physical design, and more, and how they can be brought to bear on fixing a problem once and for all. Rolling a change out smoothly is an important topic when dealing with tuning and optimization. Expert Oracle SQL: Optimization, Deployment, and Statistics does not let you down in this critical area. The book contains two chapters of good

information from an experienced professional on how to safely deploy changes into production so that your systems remaining running and available throughout the deployment process Describes a systematic approach to tuning Oracle SQL Explains how things are supposed to work what can go wrong and how to fix it Takes you through the steps needed to stabilize performance in your production systems

Advanced Information Networking and Applications Leonard Barolli, 2024-04-08 This book covers the theory design and applications of computer networks distributed computing and information systems Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several such applications have been difficult to realize because of many interconnection problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks This book aims to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications

Proceedings of the International Conference on Data Engineering and Communication Technology Suresh Chandra Satapathy, Vikrant Bhateja, Amit Joshi, 2016-08-24 This two volume book contains research work presented at the First International Conference on Data Engineering and Communication Technology ICDECT held during March 10 11 2016 at Lavasa Pune Maharashtra India The book discusses recent research technologies and applications in the field of Computer Science Electrical and Electronics Engineering The aim of the Proceedings is to provide cutting edge developments taking place in the field data engineering and communication technologies which will assist the researchers and practitioners from both academia as well as industry to advance their field of study

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