

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

**Rick Greenwald, Robert
Stackowiak, Jonathan Stern**



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

Data Warehouse Technologien Köppen / Saake / Sattler, 2014 Detailliert werden in diesem Buch sowohl der Aufbau als auch die Nutzung von Data Warehouse Systemen beleuchtet Dabei stehen Modellierungskonzepte und die Thematik der multidimensionalen Anfragen im Vordergrund Zudem werden Intern wichtiger Systeml sungen von Oracle IBM und Microsoft anhand zahlreicher Beispiele erl utert

New Trends in Data Warehousing and Data Analysis Stanisław Kozielski, Robert Wrembel, 2008-11-21 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

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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 **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 **Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications** Wang, John,2008-05-31 In recent years the science of managing and analyzing large datasets has emerged as a critical area of research In the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data **Oracle Database 10g New Features** Mike Ault,Daniel Liu,Madhu Tamma,2003 For those database administrators intending to upgrade or those who need to know the new features that will affect the entire Oracle database world this book relates all of the features of this new database The complete details of the database's new features including

database management and administration enhancements are discussed Improvements and additions to security architecture Internet features real application clusters and performance are also detailed *Database Systems* Thomas M.

Connolly, Carolyn E. Begg, 2005 This book places a strong emphasis on good design practice allowing readers to master design methodology in an accessible step by step fashion In this book database design methodology is explicitly divided into three phases conceptual logical and physical Each phase is described in a separate chapter with an example of the methodology working in practice Extensive treatment of the Web as an emerging platform for database applications is covered alongside many code samples for accessing databases from the Web including JDBC SQLJ ASP ISP and Oracle s PSP A thorough update of later chapters covering object oriented databases Web databases XML data warehousing data mining is included in this new edition A clear introduction to design implementation and management issues as well as an extensive treatment of database languages and standards make this book an indispensable complete reference for database professionals

Big Data und Advanced Analytics im Controlling Andreas Vorndran, 2024-04-30 Die Digitalisierung und Entwicklungen im Gebiet der künstlichen Intelligenz haben in den letzten Jahren erhebliche Veränderungen in der Gesellschaft und der Unternehmenspraxis hervorgerufen Aufkommende Technologien in den Feldern Big Data und Advanced Analytics werden auch im Controlling zunehmend diskutiert oder bereits eingesetzt Dabei befinden sich der Wissensstand inwieweit Big Data und Advanced Analytics das Controlling beeinflussen und verändern können und die praktische Anwendung noch in einem frühen Stadium Diese Arbeit befasst sich deshalb mit der Untersuchung der möglichen Auswirkungen von Big Data und Advanced Analytics im Controlling Vor diesem Hintergrund werden die Einflüsse dieser digitalen Trends auf den Informationsversorgungsprozess des Controllings auf die Erfüllung Controlling spezifischer Anforderungen an Informationen und auf das Forecasting die Budgetierung und die strategische Planung analysiert Ferner werden praxisrelevante Herausforderungen Grenzen und Risiken bei der Implementierung und Nutzung identifiziert sowie Implikationen zu deren Umgang zur Ausschöpfung der Potenziale abgeleitet

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 **Oracle8 Data Warehousing** Gary Dodge,Tim

Gorman,1998-03-30 A hands on guide to designing building and managing Oracle data warehouses *Expert Oracle JDBC Programming* R.M. Menon,2006-11-01 JDBC is the most commonly used API in Java to access and manipulate data in a database Oracle is one of the most popular and scalable databases in the world This book is a must have for any developer building an application that employs JDBC on Oracle database Unlike other JDBC books this book has been written to complement not rehash the contents of Oracle JDBC documentation and the JDBC specification The book teaches you not just how to write JDBC code but how to write effective JDBC code in a step by step fashion This book does not assume any prior knowledge of JDBC though it does assume basic knowledge of SQL and PL SQL It covers JDBC with a focus on writing high performing scalable and secure applications for Oracle 10g and 9i *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 advanced features This book inspires you to achieve more with your Oracle SQL statements by creating your own style for writing simple yet powerful SQL It teaches you how to think about and solve performance problems in Oracle SQL and it covers enough advanced topics to put you on the path to becoming an Oracle expert What You ll Learn Solve challenging problems with declarative SQL instead of procedural languages Write SQL statements that are large and powerful but also elegant and fast Create development environments that are simple scalable and conducive to learning Visualize and understand SQL more intuitively Apply advanced syntax objects and architecture Avoid SQL anti patterns that accumulate technical debt Tune SQL statements with multiple strategies that can significantly

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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 Big Data - BigData 2019 Keke Chen,Sangeetha Seshadri,Liang-Jie Zhang,2019-06-19 This volume constitutes the proceedings of the 8th International Congress on BIGDATA 2019 held as Part of SCF 2019 in San Diego CA USA in June 2019 The 9 full papers presented in this volume were carefully reviewed and selected from 14 submissions They cover topics such as Big Data Models and Algorithms Big Data Architectures Big Data Management Big Data Protection Integrity and Privacy Security Applications of Big Data Big Data Search and Mining Big Data for Enterprise Government and Society

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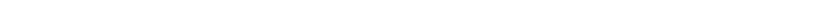
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