

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

L Cohen



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 Interneta wichtiger Systemlösungen von Oracle IBM und Microsoft anhand zahlreicher Beispiele erläutert **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 **Oracle8 Data Warehousing** Gary Dodge, Tim Gorman, 1998-03-30 A hands on guide to designing building and managing Oracle data warehouses **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 **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

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Knowledge-Based and Intelligent Information and Engineering Systems Juan D. Velásquez, Sebastián A. Ríos, Robert J. Howlett, 2009-09-18 The two volume set LNAI 5711 and LNAI 5712 constitutes the refereed proceedings of the 13th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2009 held in Santiago de Chile in September 2009 The 153 revised papers presented were carefully reviewed and selected from numerous submissions The topics covered are fuzzy and neuro fuzzy systems agent systems knowledge based and expert systems miscellaneous generic intelligent systems topics intelligent vision and image processing knowledge management ontologies and data mining web intelligence text and multimedia mining and retrieval other advanced knowledge based systems innovations in chance discovery advanced knowledge based systems multi agent negotiation and coordination innovations in intelligent systems intelligent technology approach to management engineering data mining and service science for innovation knowledge based systems for e business video surveillance social networks advanced engineering design techniques for adaptive systems knowledge technology in learning support advanced information system for supporting personal activity design of intelligent society knowledge based interface systems knowledge based multi criteria decision support soft computing techniques and their applications immunity based systems The book also includes three keynote speaker plenary presentations

Oracle 9iR2 Data Warehousing Lilian Hobbs, Susan Hillson, Shilpa Lawande, 2003 Written by people on the Oracle development team this is a how to guide to using the Data Warehouse features in various versions of Oracle Oracle 9i Release 1 and Release 2 It 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

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

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Agile Data-Oriented Research Tools to Support Smallholder Farm System

Transformation James Hammond, Mark Van Wijk, Aniruddha Ghosh, Tim Pagella, Jacob Van Etten, 2023-05-09 Smallholder farming systems contribute a substantial quantity of the food consumed in many lower and middle income countries and contribute to the national and local economies Despite the importance of smallholder farming a transformation is needed in order to deliver food security and decent incomes for the farmers themselves and at the national level This transformation must also be sustainable in terms of environmental impacts and social equity in order to be successful in the long term The pressures of population growth climate change and land fragmentation compound the problem Addressing these overlapping issues is a big challenge One obstacle is the lack of good quality granular data linking these issues together Household surveys are the workhorse method for gathering such data but there are well known problems that prevent household survey data from building up a big picture and delivering insights beyond the geographical boundary of each individual study Such obstacles include the lack of access to datasets differences in survey design and respondent biases Agile data oriented research tools can help to overcome these challenges We use the term agile to imply methods that do not attempt exhaustive measurements which are designed to be easy to use and which entail some degree of flexibility in terms of adaptation to local conditions and integration with other tools or methods Often these methods also nudge the behavior of tool users towards best practices In recent years various research tools and approaches have been published which fit within our definition of agile data oriented research tools The domains these tools function in include monitoring and evaluation intervention targeting tailored information delivery citizen science credit scoring and user feedback collection all with the overarching aim to improve data quality and access for those studying the sustainable development of smallholder farming systems The goal of this Research Topic is to better define that niche the ecosystem of tools and current practices and to explore how such approaches can provide the underpinning knowledge required for the transformation of smallholder farming systems One example of an agile data oriented research tool is the Rural Household Multi Indicator Survey RHoMIS It is a modular digital system for building household surveys addressing the common topics in smallholder development It was purposefully designed to give a broad overview of the farm system whilst keeping survey duration to a minimum to be user friendly in implementation and to be sufficiently flexible to function in a broad variety of locations and projects Since 2015 it has been used by 30 organizations in 32 countries to interview over 34 000 households The tool and database are open access and a

community of practice is developing around the tool We particularly welcome contributions that engage with the RHoMIS tool and data However we also describe the tool in order to provide an example of what is meant by an agile data oriented research tool and welcome contributions focusing on other tools or methodologies We encourage the submission of manuscripts addressing the above topic and those which fit within one of the following three sub themes i Perspectives or review articles which explore the niche best practices or promising approaches in agile data oriented research tools for smallholder farm system transformation Also technology and code articles that describe new tools are welcomed ii Original research articles presenting analyses based on data derived from agile data oriented tools used at the project level Examples include impact evaluations adoption studies targeting studies or adaptive management and should reflect on the additional benefit leveraged by the agile method applied iii Original research articles that make use of the large amounts of data generated by such agile methods and or link between agile data and other data sources Examples include meta analyses of data from multiple studies layering data collected from different agile tools or linking agile data to remote sensing or large scale modeling outputs

Oracle Database 11g Release 2 Performance Tuning Tips & Techniques Richard Niemiec, 2012-03-22 Implement Proven Database Optimization Solutions 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 11g Release 2 Performance Tuning Tips Techniques details the latest monitoring troubleshooting and optimization methods Find out how to find and fix bottlenecks configure storage devices execute effective queries and develop bug free SQL and PL SQL code Testing reporting and security enhancements are also covered in this Oracle Press guide Properly index and partition Oracle Database 11g Release 2 Work with Oracle Exadata and Oracle Exalogic Elastic Cloud Efficiently manage disk drives RAID arrays and memory Tune queries with Oracle SQL hints and the TRACE utility Troubleshoot databases using V views and X tables Distribute workload using Oracle Real Application Testing Generate reports using Oracle s Statspack and Automatic Workload Repository tools Use sar vmstat and iostat to monitor system statistics This is a timely update of Rich s classic book on Oracle Database performance tuning to cover hot new topics like Oracle Database 11g Release 2 and Oracle Exadata This is a must have for DBAs moving to these new products Andrew Mendelsohn Senior Vice President Oracle Database Server Technologies

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

Oracle Database 12c The Complete Reference Bob Bryla, Kevin Loney, 2013-10-02 Maintain a scalable highly available enterprise platform and reduce complexity by leveraging the powerful new tools and cloud enhancements of Oracle Database 12c This authoritative Oracle Press guide offers complete coverage of installation configuration tuning and administration Find out how to build and populate Oracle databases perform effective queries

design applications and secure your enterprise data Oracle Database 12c The Complete Reference also contains a comprehensive appendix covering commands keywords features and functions Oracle Database 11g DBA Handbook Bob Bryla, Kevin Loney, 2007-12-27 The Essential Resource for Oracle DBAs Fully Updated and Expanded Manage a flexible highly available Oracle database with help from the expert information contained in this exclusive Oracle Press guide Fully revised to cover every new feature and utility Oracle Database 11g DBA Handbook shows how to perform a new installation upgrade from previous versions configure hardware and software for maximum efficiency and employ bulletproof security You will learn to automate the backup and recovery process provide transparent failover capability audit and tune performance and distribute your enterprise databases with Oracle Net Plan and deploy permanent temporary and bigfile tablespaces Optimize disk allocation CPU usage I O throughput and SQL queries Develop powerful database management applications Guard against human errors using Oracle Flashback and Oracle Automatic Undo Management Diagnose and tune system performance using Oracle Automatic Workload Repository and SQL Tuning Sets Implement robust security using authentication authorization fine grained auditing and fine grained access control Maintain high availability using Oracle Real Application Clusters and Oracle Active Data Guard Respond more efficiently to failure scenarios by leveraging the Oracle Automatic Diagnostic Repository and the Oracle Repair Advisor Back up and restore tables tablespaces and databases with Oracle Recovery Manager and Oracle Data Pump Export and Import Work with networked databases data warehouses and VLDBs Put the latest Oracle Database 11g tools to work Oracle Total Recall Oracle Flashback Data Archive and more

Data Warehousing with Oracle Sima Yazdani, Shirley S. Wong, 1997 The data warehousing market continues to explode and Oracle is leading the pack This book provides a sound and practical approach to understanding planning creating and administering an Oracle based data warehouse application It clearly describes the tasks involved in building a well designed properly managed and secure data warehouse using Oracle from a database administrator's perspective **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 Database 10g New Features** Robert G. Freeman, 2004 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Here is an invaluable overview of all the cutting edge features of Oracle's latest database release Oracle Database 10g Includes expert commentary throughout from world renowned Oracle guru Jonathan Lewis This is an ideal resource for decision makers and IT staff preparing for upgrades or migration **Expert Oracle JDBC Programming** R.M. Menon, 2005-06 First book on the market that covers building high performance Java applications on the Oracle database using the latest versions of both the Oracle database 10g and the JDBC API 3.0 Promotes and explains an anti black box approach to Oracle development complete with benchmark code that will allow developers to write highly efficient high performance Oracle JDBC applications A new book from the prestigious OakTable Press which Apress will be strongly promoting and supporting throughout 2004 *Oracle Enterprise Manager 101* Lars Bo Vanting, Dirk Schepanek, 2002 Learn to streamline the management of complex Oracle systems and databases with Oracle's sole management tool while lowering the total cost of ownership of Oracle systems and databases **Oracle Database 10g The Complete Reference** Kevin Loney, 2004-09-28 Get a thorough understanding of Oracle Database 10g from the most comprehensive Oracle database reference on the market published by Oracle Press From critical architecture concepts to advanced object oriented concepts this powerhouse contains nearly 50 chapters designed to enlighten you Upgrade from earlier versions use SQL SQL Plus and PL SQL Get code examples and access popular documentation PDFs plus a full electronic copy of the book on the included CD ROM Go beyond the basics and learn security text searches external tables using Java in Oracle and a great deal more

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Table of Contents Oracle Database Data Warehousing Guide

1. Understanding the eBook Oracle Database Data Warehousing Guide
 - The Rise of Digital Reading Oracle Database Data Warehousing Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Oracle Database Data Warehousing Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Oracle Database Data Warehousing Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Oracle Database Data Warehousing Guide
 - Personalized Recommendations
 - Oracle Database Data Warehousing Guide User Reviews and Ratings
 - Oracle Database Data Warehousing Guide and Bestseller Lists
5. Accessing Oracle Database Data Warehousing Guide Free and Paid eBooks
 - Oracle Database Data Warehousing Guide Public Domain eBooks
 - Oracle Database Data Warehousing Guide eBook Subscription Services
 - Oracle Database Data Warehousing Guide Budget-Friendly Options
6. Navigating Oracle Database Data Warehousing Guide eBook Formats

- ePub, PDF, MOBI, and More
- Oracle Database Data Warehousing Guide Compatibility with Devices
- Oracle Database Data Warehousing Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Oracle Database Data Warehousing Guide
 - Highlighting and Note-Taking Oracle Database Data Warehousing Guide
 - Interactive Elements Oracle Database Data Warehousing Guide
- 8. Staying Engaged with Oracle Database Data Warehousing Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Oracle Database Data Warehousing Guide
- 9. Balancing eBooks and Physical Books Oracle Database Data Warehousing Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Oracle Database Data Warehousing Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Oracle Database Data Warehousing Guide
 - Setting Reading Goals Oracle Database Data Warehousing Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Oracle Database Data Warehousing Guide
 - Fact-Checking eBook Content of Oracle Database Data Warehousing Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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