

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

Time Periods Dimension Table
Month_desc Quarter_desc Year_desc

Promotions Dimension Table
Promo_desc

Geographies Dimension Table
Country_desc Region_desc City_desc

Products Dimension Table
Prod_desc Prod_category Prod_size Prod_color Prod_list_Price

Sales Fact Table
Units_Sold Price_Per_Unit Dollars_Sold

Customers Dimension Table
Cust_name Cust_city Cust_gender Cust_age Cust_income

Oracle Database Data Warehousing Guide

Sebastian Brünink



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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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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

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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

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