Oracle8*i* 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 Oracle8*i*, 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

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Richard Niemiec

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

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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

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