

Course overview:

Oracle 9i Data Warehouse Administration

(D008eng)



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Overview and objectives

This 5-day course considers how to build, implement, tune and utilize data warehouses with Oracle technology. Logical data warehouse concepts are considered such as dimension tables, fact tables and star schemas. Implementing such logical concepts using the Oracle database is then presented including defining dimensions, hierarchies, measures and other objects. Physical implementation techniques are considered such as bitmap indexes, partitioned tables, materialized views, and others. Emphasis is placed on the parallel execution features of the database and how these can yield significant performance advantages.

Major subject areas for the course are:

- Understanding star schemas and other data warehouse objects
- Understanding and encouraging optimization of star queries
- Creating and maintaining materialized views to enhance ad-hoc query performance
- Creating and maintaining dimensions to enhance ad-hoc query performance
- Performing dimensional analysis of data warehouse information
- Using the Summary Advisor tool for data warehouse design recommendations

Who should attend?

This course has been developed for all database administrators, data warehouse administrators and application developers who will be responsible for implementing and using data warehouse technology. Students should have attended the following courses or have equivalent knowledge and experience:

- Introduction To Oracle9i SQL
 - Introduction To Oracle9i PL/SQL Language
 - Introduction To Oracle9i Advanced SQL
 - Oracle Architecture For Developers or Oracle9i Database Administration - DBA I (recommended)
 - Oracle SQL Tuning (recommended)
 - Oracle9i New & Advanced Features for DBAs (recommended)
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About data warehousing

- Understanding warehouse concepts and terms • Contrast OLTP and warehouse databases

Using materialized views

- Enable materialized views and query rewrite • Create the materialized view

Maintaining materialized views

- Maintenance options • About the types of views • Altering and dropping views • Data dictionary storage

Refreshing materialized views

- Specifying the default refresh options • Performing a refresh on demand • Implementing fast refresh

Monitor query rewrite with explain plan

- Generating the execution plan • Viewing the execution plan • Interpreting the execution plan

Controlling the query rewrite facility

- Query rewrite optimizer hints • Utilizing constraints with query rewrite • Query rewrite integrity levels • Query rewrite influences

Dimensions

- Creating and maintaining dimensions • Data dictionary storage • Dimension system-supplied packages

The summary advisor tool

- The DBMS_OLAP() package • Incorporating workload statistics • OEM summary advisor wizard

Dimensional analysis of data

- Data sampling techniques • Aggregation techniques • Building the data warehouse cube

An introduction to the analytic functions

- Ranking functions • Understanding function execution

Incorporating bitmap indexes

Star queries and the optimizer

- A star transformation scenario • Encouraging star transformation

ETT features (external tables)

- Creating and accessing external tables • Performance considerations • Viewing and altering properties of external tables

ETT features (table functions)

- Implementing a pipeline table function

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