

ODAT-25 - ORACLE DATABASE 11G: ADMINISTER A DATA WAREHOUSE

Categoria: **Database**

INFORMAZIONI SUL CORSO



Durata:
4 Giorni



Categoria:
Database



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Professionista IT



Produttore:
Oracle

OBIETTIVI

Rivedere i concetti di base di Oracle data warehouse

Utilizzare operazioni parallele per ridurre i tempi di risposta per le operazioni di data-intensive Extract, Transform and Load dei dati nel data warehouse

Creare, utilizzare e aggiornare viste materializzate per migliorare le prestazioni di data warehouse

Usa riscrivere Query per rispondere rapidamente query di business utilizzando viste materializzate

Utilizzare l'accesso a SQL Advisor e procedure PL / SQL per sintonizzare viste materializzate per un veloce aggiornamento e riscrittura della query

Utilizzare le funzioni di compressione e sessioni resumable

PREREQUISITI

Prerequisites:

Prerequisiti obbligatori:

Good working knowledge of data warehouse design
Ability to read and understand execution plans
Good working knowledge of SQL and in data warehouse design and implementation
Good working knowledge of SQL Oracle Database 11g: Workshop di amministrazione I Release 2

Prerequisiti suggeriti :Â Oracle Database 11g: Performance Tuning

Ritorno all'inizio

Course Objectives:

CONTENUTI

Introduction

Development Tools
Oracle SQL Developer
Enterprise Manager
Sample Schemas used

Data Warehouse Design: Overview

What is a Data Warehouse?
Characteristics of a Data Warehouse

- Comparing OLTP and Data Warehouses
- Data Warehouse Architectures
- Data Warehouse Design
- Data Warehouse objects
- Data Warehouse Schemas
- Star Transformation

Partitioning Basics

- Partitioned Tables and Indexes
- Partitioning Methods
- Partitioning Types
- Partition Pruning and Star queries

Parallelism Concepts

- Operations That Can Be Parallelized
- How Parallel Execution Works
- Degree of Parallelism
- Parallel execution plan

Parallel Operations in Data Warehouses

- Parallel Query
- Parallel DDL
- Parallel DML
- Tuning Parameters for Parallel Execution
- Balancing the Workload

ETL: Extraction and Transportation

- Extraction Methods
- Capturing Data With Change Data Capture
- Sources and Modes of Change Data Capture
- Publish and Subscribe Model: The Publisher and the Subscriber
- Synchronous and Asynchronous CDC
- Asynchronous AutoLog Mode and Asynchronous HotLog Mode
- Transportation in a Data Warehouse
- Transportable Tablespaces

ETL: Loading

- Loading Mechanisms
- Applications of External Tables
- Defining external tables with SQL*Loader
- Populating external tables with Data Pump
- Other Loading Methods

ETL: Transformation

- Data transformation
- Transformation Mechanisms
- Transformation Using SQL
- Table Functions
- DML error logging

Materialized Views

- The Need for Summary Management
- Types of Materialized Views

Using Materialized Views for Summary Management
Materialized View Dictionary views

Refreshing Materialized Views

Refresh Options
Refresh Modes
Conditions That Effect Possibility of Fast Refresh
Materialized View Logs
Partition Change Tracking (PCT) Refresh
Refresh Performance Improvements

Working With Dimensions

What Are Dimensions
Creating Dimensions and Hierarchies
Dimensions and Privileges
Dimension Restrictions
Verifying Relationships in a Dimension
Dimension Invalidation

Query Rewrite

Query Rewrite: Overview
What Can be Rewritten
Conditions Required for Oracle to Rewrite a Query
Query Rewrite guidelines
Setting Initialization Parameters for Query Rewrite
Query Rewrite Methods
Partition Change Tracking (PCT) and Query Rewrite
Query Rewrite Enhancement to Support Queries Containing Inline Views

Using the SQL Access Advisor, Compression, and Resumable Sessions

SQL Access Advisor: Usage Model
Setting Initial Options
Specifying the Workload Source
Recommendation Options
Schedule and Review
PL/SQL Procedure Flow
Tuning Materialized Views for Fast Refresh and Query Rewrite
Table Compression and Resumable Sessions
Oracle Warehouse Builder 10g: Implementation Part II
Oracle Database 11g: Analytic SQL for Data Warehousing
Oracle Warehouse Builder 10g: Implementation Part I

INFO

Manuale: Il Materiale Didattico Ufficiale per tutti i corsi Oracle University non è più in forma cartacea ma consiste in un eKit elettronico che lo studente iscritto potrà scaricare dal sito Oracle. Per tutte le info sull'eKit

http://education.oracle.com/pls/web_prod-plq-dad/db_pages.getpage?page_id=288. Il Materiale Didattico è compreso nel prezzo sia per i corsi a Calendario che Dedicati.

Prezzo manuale: 0 € incluso nel prezzo del corso

Natura del corso: Operativo (previsti lab su PC)