

# Oracle Database 11g Sql Tuning Workshop Student Guide

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## Oracle Database 11g Sql Tuning

Oracle Database 11g: SQL Tuning Workshop, This Database 11g SQL Tuning Workshop training teaches database developers, DBAs and SQL developers to identify and tune inefficient SQL statements. Learn how to investigative methods to reveal how the Oracle database executes the SQL statement.

## Oracle Database 11g: SQL Tuning Workshop

Starting with the 11 g Release 2 (11.2), Oracle Database contains the SQL Test Case Builder, which automates the somewhat difficult and time-consuming process of gathering and reproducing as

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much information as possible about a problem and the environment in which it occurred.

## **SQL Tuning Overview - 11g Release 2 (11.2) - Oracle Cloud**

Oracle Database automatically runs SQL Tuning Advisor on selected high-load SQL statements from the Automatic Workload Repository (AWR) that qualify as tuning candidates. This task, called Automatic SQL Tuning, runs in the default maintenance windows on a nightly basis. By default, automatic SQL tuning runs for at most one hour.

## **Automatic SQL Tuning - 11g Release 2 (11.2) - Oracle Cloud**

Oracle Database 11g Release 2 (11.2.0.2 onward) has some minor changes to the Automatic SQL Tuning feature introduced on Oracle 11g Release 1. In the previous release, reports and amendments to the automatic tuning task parameters was performed using the DBMS\_SQLTUNE package.

## **ORACLE-BASE - Automatic SQL Tuning in Oracle Database 11g ...**

Here is a brief description of the automated SQL tuning process in Oracle Database 11g: Step 1: Based on the AWR Top SQL identification, Automatic SQL Tuning targets for automatic tuning. Steps 2 and 3: While the Automatic SQL Tuning task is executing during the maintenance window, the previously identified SQL statements are automatically tuned by invoking SQL Tuning Advisor.

## **Improving SQL Statement Tuning with Automatic SQL Tuning**

SQL TUNING ADVISOR :- The SQL Tuning Advisor takes one or more SQL statements as an input and invokes the Automatic Tuning Optimizer to perform SQL tuning on the statements. The output of the SQL Tuning Advisor is in the form of an recommendations, along with a rationale for each recommendation and its expected benefit. The recommendation relates to collection of statistics on objects, creation ...

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## **Oracle Tuning-Analyze SQL with SQL Tuning Advisor ...**

The exam audience is represented by database administrators, support engineers, and technical consultants who can demonstrate their knowledge and skills using Oracle Database 11g automatic tuning features, including SQL Tuning Advisor, SQL Access Advisor, Automatic Workload Repository and Automatic Database Diagnostic Monitor.

## **Oracle Database 11g: Performance Tuning Exam Study Guide**

By default, Oracle Database automatically identifies problematic SQL statements and implements tuning recommendations using the SQL Tuning Advisor during system maintenance windows as an automated maintenance task, searching for ways to improve the execution plans of the high-load SQL statements.

## **SQL Tuning Overview - Oracle**

You run SQL Performance Analyzer trials on a remote test database created in Oracle Database 11 g Release 2 (11.2). You want to copy the STS from the production database to the test database and tune the regressions from the SQL Performance Analyzer trials. You want to use Oracle Database Pump to transfer the SQL tuning sets between database hosts.

## **Managing SQL Tuning Sets - Oracle Cloud**

What's New in Oracle Database Performance Tuning Guide? Oracle Database 11 g Release 2 (11.2.0.4) New Features in Oracle Database Performance; Oracle Database 11 g Release 2 (11.2.0.2) New Features in Oracle Database Performance; Oracle Database 11 g Release 2 (11.2.0.1) New Features in Oracle Database Performance; Part I Performance Tuning

## **Database Performance Tuning Guide - Contents - Oracle Cloud**

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The main benefit is that the DBA can now test changes to global parameters against a real-world workload, using a SQL Tuning Set (STS). Holistic tuning in Oracle 11g is offered through several functional areas, most importantly the SQL Performance Advisor (SPA) and the automated SQL Plan Management (SPM) facility.

## **fully automated SQL tuning tips - Burleson Oracle Consulting**

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ADDM is enabled by default in Oracle Database 11g; it depends upon two configuration parameters of the init.ora file, STATISTICS\_LEVEL and CONTROL\_MANAGEMENT\_PACK\_ACCESS. The value for these parameters should be TYPICAL or ALL for the former and DIAGNOSTIC or DIAGNOSTIC+TUNING for the latter. To show the current parameter values, we can use the following statement:

## **Oracle Database 11gR2 Performance Tuning Cookbook**

Answer: You can do the SQL Tuning advisor in OEM but you can also run the dbms\_sqltune package to run the SQL Tuning Advisor from the command line. This approach is often better than the GUI of Oracle Enterprise Manager because the SQL\*Plus command line gives you complete control over the dbms\_sqltune procedures.

## **SQL Tuning Advisor using command line utilities**

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.

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Find out how to find and fix bottlenecks, configure storage devices, execute effective queries, and develop bug-free SQL and PL/SQL code.

## **Oracle Database 11g Release 2 Performance Tuning Tips ...**

- Manual SQL tuning is painful even for the experts
- Oracle 10g SQL Tuning Advisor quickly gives DBA good choices
- Oracle 11g Automatic SQL Tuning automates the process by making the easy decisions
- DBA can control as much of the process as he wants Just when you thought it was safe to run your SQLs...

## **<Insert Picture Here> - Oracle**

Tuning SQL: SQL Plan Baselines Some optimizer related change in the environment results in a new plan being generated New plan is not the same as the baseline - new plan is not executed but marked for verification Execute known plan baseline - plan performance is "verify by history"  
Verifying the new plan 1) DBA can verify plan at any time

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