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SQLT Diagnostic Tool (Doc ID 215187.1)

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Document Details

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Related Products

Oracle Application Object Library
Oracle Database - Enterprise Edition
Managed Cloud Services Problem Resolution

Information Centers

Index of Oracle Database Information Centers [1568043.2]
E-Business Suite Product Information Center Index [444.2]
Information Center: Overview of Database Security Products [1548952.2]
Information Center: Overview Database Server/Client Installation and Upgrade/Migration [1351022.2]

Document References

Script to produce HTML report with top consumers out of PL/SQL Profiler DBMS_PROFILER data [243755.1]
TRCANLZR (TRCA): SQL_TRACE/Event 10046 Trace File Analyzer - Tool for Interpreting Raw SQL Traces [224270.1]
Best Practices: Proactively Avoiding Database and Query Performance Issues [1482811.1]
How to: Manage CBO Statistics During an Upgrade from 10g or 9i into 11g/12c [465787.1]
SQL Tuning Health-Check Script (SQLHC) [1366133.1]
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Recently Viewed

How to Obtain Tracing of Optimizer Computations (EVENT 10053) [225598.1]
ORA-01031 during Post Install / De-install for Database PSU or OJVM PSU with Data Vault installed [1935120.1]
Oracle JavaVM Component 11.2.0.4.3 Database PSU Known Issues [1967565.1]
Patch Set Update and Critical Patch Update April 2015 Availability Document [1967243.1]

APPLIES TO:

Oracle Application Object Library - Version 11.5.10.0 and later
Oracle Database - Enterprise Edition - Version 10.2.0.1 and later
Managed Cloud Services Problem Resolution - Version N/A to N/A
Information in this document applies to any platform.
Checked for relevance 09-JUL-2014

MAIN CONTENT

ORACLE ORAchk — In addition to this note, also take a look at proactive Database Healthchecks provided by ORACHK. Find out more

What is SQLTXPLAIN (SQLT)?

SQLTXPLAIN, also known as SQLT, is a tool provided by Oracle Server Technologies Center of Expertise - ST CoE. SQLT inputs one SQL statement and outputs a set of diagnostics files. These files are commonly used to diagnose SQL statements performing poorly. SQLT connects to the database and collects execution plans, Cost-based Optimizer CBO statistics, schema objects metadata, performance statistics, configuration parameters, and similar elements that influence the performance of the SQL being analyzed.

Licensing (SQLT requires no license and is FREE)

As in the title of this section, SQLT requires no license and is FREE.

SQLT can use data from the Oracle Diagnostic and/or the Oracle Tuning Packs if your site has a license for them. For more details refer to the licensing section in the SQLT FAQ:

> Document 1454160.1 FAQ: SQLT (SQLTXPLAIN) Frequently Asked Questions

Download SQLTXPLAIN (SQLT)

10.2, 11.1, 11.2 and 12.1 download
9.2 and 10.1 download

> Note that you can also download SQLT in the RAC and DB Support Tools Bundle
>
> > Document 1594347.1 RAC and DB Support Tools Bundle

The Current Version of SQLT is:

```
SQLT version number: 12.1.11          SQLT version date  : 2014-10-30
```

To see what is new on this version read the following document:

Document 1614201.1 SQLT Changes

Critical Patch Update April 2015 Database Known Issues [1967534.1]

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Installation

- For 10.2, 11.1, 11.2, 12.1 download the SQLT tool from the sqlt.zip file attached and unzip the contents into a suitable folder.
- Read the SQLT Usage instructions:

  Document 1614107.1 SQLT Usage Instructions

  These instructions (sqlt_intructions.html) are also included in the zip file.
- If the zip file appears corrupted while downloading, please retry with another browser.
- If you encounter any installation issues, please refer to the following Community thread for assistance: SQLTXPLAIN: SQLT Installation Issues
- For sample output, download output sample.
- For 9.2 and 10.1 download the SQLT tool from the sqlt9i.zip. Read sqlt_intructions.txt included in zip file. Do not use this version of the tool on 10.2 or 11g databases.

SQLTXPLAIN REFERENCE MATERIAL

SQLTXPLAIN Usage Guide

The SQLT usage guide can be found here:

Document 1614107.1 SQLT Usage Instructions

Unless you plan to execute the SQL, you will need to know the SQL_ID or HASH_VALUE of the statement from an AWR or ASH report or you can select it from the database using the V$SQL view. See:

Document 1627387.1 How to Determine the SQL_ID for a SQL Statement

Interpreting the SQLTXPLAIN Main report

You can find some suggestions about how you might be able to use the SQLT main report in the following document:

Document 1922234.1 SQLT Main Report: Usage Suggestions

SQLTXPLAIN FAQ

A FAQ for the SQLT tool can be found here:

Document 1454160.1 FAQ: SQLT (SQLTXPLAIN) Frequently Asked Questions

SQLTXPLAIN Video and Webinars

A video is available that goes through the setting up and purpose of SQLT. The video is available here: Using SQLT

Additionally number of webcasts covering various SQLT related topics have been recorded, including topics such as:

- "Using SQLTXPLAIN to diagnose SQL statements performing poorly"
- "How to create in 5 minutes a SQL Tuning Test Case using SQLTXPLAIN".

The webinars can be found, along with many other recorded webcasts, here:

Document 740964.1 Advisor Webcast Archived Recordings

Related to the Testcase webinar, there are some articles outlining how to use SQLT Testcases here:

Document 1470811.1 How to Use SQLT (SQLTXPLAIN) to Create a Testcase Without Row Data
Document 1465741.1 How to Use SQLT (SQLTXPLAIN) to Create a Testcase Containing Application Data

BEST PRACTICES

Ask Questions, Get Help, And Share Your Experiences With SQLT

Would you like to explore SQLT further with other Oracle Customers, Oracle Employees, and Industry Experts?
We have various community threads available where you can ask questions, get help from others, and share your experiences with SQLTXPLAIN:

SQLTXPLAIN: SQLT Installation Issues

SQLTXPLAIN: Dealing with Long Execution Times
SQLTXPLAIN: Dealing with Errors reported in SQLT MAIN report
SQLTXPLAIN: Using SQLT on a Stand-by or Dataguard
SQLTXPLAIN: Interpreting and Understanding SQLT Output

SQLTXPLAIN (SQLT): General Discussion

Discover discussions about other articles and helpful subjects by clicking here to access the main My Oracle Support Community page for Database Tuning.

Pro-Active Problem Avoidance and Diagnostic Collection

Although some problems may be unforeseen, in many cases problems may be avoidable if signs are detected early enough. Additionally, if an issue does occur, it is no use collecting information about that issue after the event. SQLTXPLAIN is one of the tools that support recommend for collecting such diagnostics. For information on suggested uses, other proactive preparations and diagnostics, see:

Document 1482811.1 Best Practices: Proactively Avoiding Database and Query Performance Issues
Document 1477599.1 Best Practices Around Data Collection For Performance Issues

Discuss SQLT!

The window below is a live discussion of this article (not a screenshot). We encourage you to join the discussion by clicking the "Reply" link below for the entry you would like to provide feedback on. If you have questions or implementation issues with the information in the article above, please share that below.

Все места > My Oracle Support Community > Oracle Database (MOSC) > SQL Performance (MOSC) > Обсуждения

76 Ответы Последний ответ: 16.04.2015 9:38 автор: **Steve Dixon-Oracle**

Steve Dixon-Oracle 23.04.2014 4:16

SQLTXPLAIN (SQLT): General Discussion

Due to the wide variety of posts received on this thread, we decided to create a number of more spec
Please use these new threads for the problem area you are encountering.

For general SQLT Discussions continue to use this thread

Targeted threads:

SQLTXPLAIN: SQLT Installation Issues.
SQTXPLAIN: Dealing with Long SQLT Execution Times
SQTXPLAIN: Dealing with Errors reported in SQLT MAIN report
SQTXPLAIN: Using SQLT on a Stand-by or Dataguard
SQTXPLAIN: Interpreting and Understanding SQLT Output

References:
Document 215187.1 SQLT (SQLTXPLAIN) - Tool that helps to diagnose SQL statements performing poorly
Document 1454160.1 FAQ: SQLT (SQLTXPLAIN) Frequently Asked Questions
Document 1521607.1 Troubleshooting SQLT Issues

REFERENCES

NOTE:243755.1 - Script to produce HTML report with top consumers out of PL/SQL Profiler DBMS_PROFILER data
NOTE:224270.1 - TRCANLZR (TRCA): SQL_TRACE/Event 10046 Trace File Analyzer - Tool for Interpreting Raw SQL Traces
NOTE:1482811.1 - Best Practices: Proactively Avoiding Database and Query Performance Issues
NOTE:465787.1 - How to: Manage CBO Statistics During an Upgrade from 10g or 9i into 11g/12c
NOTE:1366133.1 - SQL Tuning Health-Check Script (SQLHC)
NOTE:1322888.1 - pscbo_stats - Improving Statistics in Oracle RDBMS for PeopleSoft Enterprise
NOTE:781927.1 - Performance Tuning Guidelines for Siebel CRM Application on Oracle Database
NOTE:1477599.1 - Best Practices: Proactive Data Collection for Performance Issues

NOTE:1477399.1 - Best Practices: Proactive Data Collection for Performance Issues
NOTE:1465741.1 - How to Use SQLT (SQLTXPLAIN) to Create a Testcase Containing Application Data
NOTE:749227.1 - * How to Gather Optimizer Statistics on 11g
NOTE:1470811.1 - How to Use SQLT (SQLTXPLAIN) to Create a Testcase Without Row Data
NOTE:1454160.1 - FAQ: SQLT (SQLTXPLAIN) Frequently Asked Questions
NOTE:1460440.1 - Script PXHCDR.SQL: Parallel Execution Health-Checks and Diagnostics Reports

Didn't find what you are looking for? Ask in Community...

Attachments

- SQLT PPT Presentations (6.16 MB)
- SQLT Tool for 12c, 11g and 10g (910.97 KB)
- SQLT Tool for 9.2 and 10.1 (ZIP format) (1.7 MB)
- SQLT Change Log per release (80.51 KB)
- SQLT Output Sample (5.73 MB)

Related

Products

- Oracle E-Business Suite > Applications Technology > Application Object Library > Oracle Application Object Library
- Oracle Database Products > Oracle Database Suite > Oracle Database > Oracle Database - Enterprise Edition > RDBMS > Generic SQL Performance, SQL Execution, Query Optimizer
- Services > Oracle On Demand > On Demand Services > Managed Cloud Services Problem Resolution > On Demand Assistance/Access > On Demand Assistance/Access

Keywords

BAD PLAN; CBO; COST BASED OPTIMIZER; EXPLAIN PLAN; PERFORMANCE; SQL TUNING; SQLTXPLAIN

Translations

- English Source
- Chinese 简体中文
- Japanese 日本語
- Korean 한국어

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