

All About the SQLT Diagnostic Tool (Doc ID 215187.1)

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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
PeopleSoft Enterprise PT PeopleTools - Version 8.54 to 8.54 [Release 8.4]
Oracle Database Cloud Schema Service - Version N/A and later
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.

For tuning SQL, SQLT requires some level of expertise to get the most from it. For most issues we recommend that you start by checking the query using SQL Health Check and then progress to SQLT if you are unable to resolve the issue. For details of SQLHC see:

[Document 1366133.1](#) SQL Tuning Health-Check Script (SQLHC)

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, 12.1, 12.2 and 18.1 download](#)
[9.2 and 10.1 download](#)

Installation

- For [10.2, 11.1, 11.2, 12.1, 12.2 and 18.1 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_instructions.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_instructions.txt included in zip file. Do not use this version of the tool on 10.2 and posterior versions .

SQLTXPLAIN REFERENCE MATERIAL

How to get SQLT Installation Advice?

The best place to get SQLT installation advice is the My Oracle Support Community (MOSC). Refer to the following thread: [SQLTXPLAIN: SQLT Installation Issues](#), where you can benefit from the shared experience of the community, ask questions and get help from others.

Troubleshooting SQLT Runtime or Installation Issues

In the event that SQLT raises errors at runtime or during installation or has other installation related issues, refer to:

[Document 1670677.1](#) FAQ: Common SQLT (SQLTXPLAIN) Runtime/Installation Errors

As above, the [My Oracle Support Community \(MOSC\)](#) can also provide valuable assistance.

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

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.

97 Replies Latest reply on Feb 12, 2019 7:56 PM by User516490-OC 

[1](#) [2](#) [3](#) .



SteveD-Oracle Apr 23, 2014 9:16 AM

SQLTXPLAIN (SQLT): General Discussion

Due to the wide variety of posts received on this thread, we decided to create a number of more specific threads to cover more targeted a 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.](#)

[SQLTXPLAIN: Dealing with Long SQLT Execution Times](#)

[SQLTXPLAIN: Dealing with Long SQL 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](#)

References:

[Document 215187.1](#) SQLT (SQLTXPLAIN) - Tool that helps to diagnose SQL statements performing poorly or one that produces wrong results

[Document 1454160.1](#) FAQ: SQLT (SQLTXPLAIN) Frequently Asked Questions

[Document 1521607.1](#) Troubleshooting SQLT Issues

Please note that in addition to SQLT, the SQL Healthcheck Script can be used to check the environment in which a single SQL Statement checking Cost-based Optimizer (CBO) statistics, schema object metadata, configuration parameters and other elements that may influence performance of the one SQL being analyzed. You can find a discussion regarding this script in the following thread:

[Discussion about the SQL Health-Check Script \(SQL HC\) as Featured in Notes:1366133.1 and 1455583.1](#)

REFERENCES

[NOTE:224270.1](#) - TRCANLZR (TRCA): SQL_TRACE/Event 10046 Trace File Analyzer - Tool for Interpreting Raw SQL Traces (NO LONGER SUPPORTED - Use SQLTXPLAIN sqltrcanlzs.sql)

[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:1470811.1](#) - How to Use SQLT (SQLTXPLAIN) to Create a Testcase Without Row Data

[NOTE:243755.1](#) - Script to produce HTML report with top consumers out of PL/SQL Profiler DBMS_PROFILER data

[NOTE:1465741.1](#) - How to Use SQLT (SQLTXPLAIN) to Create a Testcase Containing Application Data

[NOTE:1482811.1](#) - Best Practices: Proactively Avoiding Database and Query Performance Issues

[NOTE:1322888.1](#) - psco_stats - Improving Statistics in Oracle RDBMS for PeopleSoft Enterprise

[NOTE:1460440.1](#) - Script PXHCDR.SQL: Parallel Execution Health-Checks and Diagnostics Reports

[NOTE:465787.1](#) - How to: Manage CBO Statistics During an Upgrade from 10g or 9i into 11g/12c

[NOTE:1454160.1](#) - FAQ: SQLT (SQLTXPLAIN) Frequently Asked Questions

[NOTE:1366133.1](#) - SQL Tuning Health-Check Script (SQLHC)

[NOTE:749227.1](#) - * How to Gather Optimizer Statistics on 11g

Didn't find what you are looking for?