

# SQL Optimizer for Oracle 10.0

## Release Notes

Tuesday, January 9, 2024

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## About SQL Optimizer for Oracle

SQL Optimizer for Oracle automates the SQL optimization process and maximizes the performance of your SQL statements. SQL Optimizer analyzes, rewrites, and evaluates SQL statements located within database objects, files, or collections of SQL statements from Oracle's System Global Area (SGA). Once SQL Optimizer identifies problematic SQL statements, it optimizes the SQL and provides replacement code that includes the optimized statement.

SQL Optimizer also provides a complete index optimization and plan change analysis solution. It provides index recommendations for multiple SQL statements or a SQL workload, simulates index impact analysis, and generates SQL execution plan alternatives.

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# New Features

## SQL Optimizer for Oracle 10

Database and platform support:

- Oracle 21c
- Oracle 21c Client
- Windows 11
- Windows Server 2022

## Learn More



Remember, you can find blogs, videos, and forums at the [SQL Optimizer for Oracle Community](#).

- Find answers to your questions in the SQL Optimizer forums.
- Learn tips and tricks from blog posts.

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## Discontinued Features

This release does not include any discontinued features.

# Resolved Issues and Enhancements

The following is a list of issues addressed and enhancements implemented in this release of SQL Optimizer for Oracle.

## Resolved Issues in 10.0

Feature	Resolved Issue	Defect ID
General	The DevExpress Library has been upgraded from version 19.2.6 to 19.2.14.	SOFO-2833
Inspect SGA	SQL Optimizer for Oracle is displaying the Column 'AvailableColumn' does not belong to table tbDisplayColumn error when users attempt to select a column under the Available Column section in the Statistics steps of Inspecting SGA.	SOFO-2829
Optimize SQL	SQL Optimizer for Oracle is displaying incorrect Korean words in the report of Optimize SQL.	SOFO-2828
Inspect SGA	SQL Optimizer for Oracle is displaying the The selected Inspect time is passed error when users attempt to select the date and time to collect SQL statements in Inspect SGA.	SOFO-2827
Optimize SQL	When users execute a complex query in SQL Optimizer for Oracle, the application hangs and continues running indefinitely.	SOFO-2823/SOFO-2826
General	The product trial page is not automatically generating the trial license key after downloading the SQL Optimizer for Oracle application.	SOFO-2821
Manage Plans	Users are not able to use Baseline Management functionality under the <b>Manage Plans</b> options tab in the RDS environment.	SOFO-2817
Manage Plans	Users are not able to use Outline Management functionality under the <b>Manage Plans</b> options tab in the RDS environment.	SOFO-2816
Connection Manager	The SQL Optimizer for Oracle is not retrieving details from the <b>tnsnames.ora</b> file located on the network-mounted drive to populate database names under the Connection Manager > TNS tab.	SOFO-2729
Options	SQL Optimizer for Oracle displays the FTP Browse Error (No known hosts) error when users attempt to make configuration-related changes using the FTP access method in the Trace Setup window.	SOFO-2728
Options	SQL Optimizer for Oracle displays the ORA 29280 error when users attempts to make configuration related changes using the <b>UTL_FILE</b> access method on the <b>Trace Setup</b> window.	SOFO-2727
Options	SQL Optimizer for Oracle is not saving the options configured while setting up <b>UTL_FILE</b> in TraceSetup. As a result, the system is not displaying trace statistics information about SQL	SOFO-2725

Feature	Resolved Issue	Defect ID
Manage Plans	execution, such as IO, Buffer, and CPU Trace.  SQL Optimizer for Oracle displays the <code>ORA-15705: staging table does not exist when importing a baseline from a file</code> error while reading the staging table name from a log file.	SOFO-2705

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# Known Issues

The following is a list of issues known to exist at the time of this release.

Feature	Known Issue	Defect ID
Inspect SGA	SQL Optimizer for Oracle is not processing the request when users submit the completed Inspect SGA job for batch optimization.	SOFO-2880
Optimize SQL	SQL Optimizer for Oracle is unable to search for alternatives when optimizing SQL with nested queries by retrieving all records from the table.	SOFO-2879
Optimize SQL	The SQL Optimizer for Oracle translates some words into Korean incorrectly in the Optimize SQL's report.	SOFO-2876
Optimize Index, Optimize SQL	There is performance slowness observed when executing Optimize Index and Optimize SQL operations on medium, complex, and simple queries.	SOFO-2875
Inspect SGA	After adding a future job in the Inspect SGA module, users are unable to close the application.	SOFO-2873
Optimize SQL	SQL Optimizer for Oracle displays the <code>This type of SQL statement is not supported</code> error when users attempt to optimize a query containing the <b>JSON_OBJECT</b> function.	SOFO-2849
Optimize SQL	The SQL Optimizer for Oracle application crashes when users click the <b>Cancel</b> button on the Optimize SQL Resolution report.	SOFO-2834
Optimize SQL	The SQL Optimizer for Oracle is not identifying a statement with a query that contains pivot columns. For additional details, see <a href="https://support.quest.com/kb/4221548/error-optimizing-a-valid-query-the-parser-did-not-identify-the-text-as-a-valid-sql-statement-">https://support.quest.com/kb/4221548/error-optimizing-a-valid-query-the-parser-did-not-identify-the-text-as-a-valid-sql-statement-</a>	SOFO-2815
General	SQL Optimizer cannot test run in Exadata DB with 19c client. <b>Workaround:</b> User can use other client to connect to Exadata.	SOFO-2628
General	SQL Optimizer for Oracle displays an error when updating the Oracle database connection from version 11GR2 or 12C to 18C on the <b>Migration</b> tab.	SOFO-2435
Scan SQL and Batch Optimize	When you select the "Include Dependants" option while scanning database objects, only first level dependents are retrieved instead of all dependents.	ST40625
Connecting to Database	When the directory where SQL Optimizer is installed has a directory path which contains parenthesis, connecting to Oracle fails when using a pre-11g client.  This is a known Oracle issue that we cannot fix. This problem is more common in 64-bit environment because the default directory for 32-bit applications is "C:\Program Files (x86)\". <b>Workaround:</b> Install SQL Optimizer in a directory that does not have parenthesis or upgrade the Oracle client to 11g.	ST63421
Installation	If you install SQL Optimizer version 8.8.1 (or later) and then do a side-by-side install of version 8.8.0, version 8.8.0 will fail to launch	ST111404

Feature	Known Issue	Defect ID
	after it is successfully installed.	
Installation	<p>If you install SQL Optimizer 8.8.0 (or later) side-by-side with version 8.7.0, then uninstall version 8.7.0, version 8.8.0 (or later) will no longer integrate with other Toad products. This issue is found in side-by-side installations of 8.8 and either 8.5.0, 8.6.0, 8.7.0, or 8.7.1 that are of the same edition (i.e., both Commercial edition) and the same bitness (i.e., both 32-bit).</p> <p><b>Workaround 1:</b> Launch SQL Optimizer 8.8.0 (or later) from the short-cut on the Start menu.</p> <p><b>Workaround 2:</b> Uninstall SQL Optimizer 8.8.0 (or later) and reinstall it.</p>	ST109347
Installation	<p><b>Background:</b> SQL Optimizer 8.7 (or later) does not support an upgrade from the 32-bit version to the 64-bit version (or 64-bit version to 32-bit version). If you attempt to upgrade by using the Quest Software Installer, you <i>will</i> receive the appropriate warning message and the installation will not proceed.</p> <p><b>Issue:</b> If you attempt to upgrade from the 32-bit version of SQL Optimizer to the 64-bit version (or from the 64-bit version to the 32-bit version) by using the .msi installer, you will <b>not</b> receive a warning message and the installation will appear to proceed. However, you will encounter an error upon launching the upgraded application.</p> <p><b>Workaround:</b> To upgrade to a newer version of SQL Optimizer that has a different "bitness" (i.e., from 32-bit to 64-bit), you must first <b>uninstall</b> the previous version.</p>	ST102226
Installation	<p>A shortcut is not created in the Metro UI on Windows 8 and Windows Server 2012 for limited users in the following cases (when application is installed "for everyone"):</p> <ul style="list-style-type: none"> <li>• For a user that has never previously logged-in</li> <li>• For a new user created after installation</li> </ul>	ST105153
Installation	<p>A shortcut is not created in the Windows Start menu for limited users when upgrading or performing a side-by-side installation of SQL Optimizer 8.5 or later.</p> <p><b>Workaround:</b> Launch SQL Optimizer from Windows Explorer.</p>	ST76887
Installation	<p>The CPM product key is not automatically entered when upgrading or performing a side-by-side installation of SQL Optimizer 7.5 or later.</p> <p><b>Workaround:</b> Manually enter CPM product key in licensing window.</p>	ST73191
Report	<p>Unicode characters do not display correctly in the generated report.</p> <p><b>Workaround:</b></p> <p><b>For PDF:</b> Select a font that contains the specific Unicode characters. Do this by modifying the font settings that apply to data grids and generated reports.</p> <ol style="list-style-type: none"> <li>1. Select <b>Options   General   Appearance</b>.</li> <li>2. Under Font Settings, in the <b>Other Data</b> drop-down list, select a font that contains the Unicode characters (for</li> </ol>	ST102639

Feature	Known Issue	Defect ID
	<p>example, Arial Unicode MS).</p> <p><b>For HTML and MHT:</b> When exporting the report, select a <b>Character set</b> that contains the Unicode characters.</p> <p><b>For CSV and Text:</b> When exporting the report, select an <b>Encoding</b> option that supports the Unicode characters.</p>	
Help	Currently, you cannot enter Unicode characters in the Index or Search fields of the online help.	ST71331
	When searching the online help for information using the Search bar in SQL Optimizer, topics display in the help window for exact matches found but the related index entry is not highlighted.	ST71433

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# System Requirements

Before installing SQL Optimizer for Oracle®, ensure your system meets the following minimum hardware and software requirements:

Requirement	Details
<b>Platform</b>	1 GHz Processor
<b>Memory</b>	1 GB of RAM for SQL Optimizer for Oracle 32-bit 2 GB of RAM for SQL Optimizer for Oracle 64-bit <b>Note:</b> The memory required may vary based on the following: <ul style="list-style-type: none"> <li>• Applications that are running on your system</li> <li>• Size and complexity of the database</li> <li>• Amount of database activity</li> <li>• Number of concurrent users accessing the database</li> </ul>
<b>Hard Disk Space</b>	180 MB of disk space for SQL Optimizer for Oracle 32-bit 217 MB of disk space for SQL Optimizer for Oracle 64-bit <b>Note:</b> The disk space required may vary based on options selected for installation.
<b>Operating System</b>	Microsoft Windows 8.1 32-bit and 64-bit Microsoft Windows 8.1 (with Update) 32-bit and 64-bit Microsoft Windows 10 32-bit and 64-bit Microsoft Windows 11 32-bit and 64-bit Microsoft Windows Server 2012 R2 Microsoft Windows Server 2012 R2 (with Update) Microsoft Windows Server 2016 Microsoft Windows Server 2019 Microsoft Windows Server 2022
<b>.NET Framework</b>	Microsoft .NET Framework 4.6.2 Full Profile
<b>Browser</b>	Microsoft Internet Explorer 6.0 or later <b>Note:</b> Other browsers may also be used.
<b>PDF Viewer</b>	Adobe Acrobat Reader 7.0 or later (for viewing the Installation Guide)
<b>Database Client</b>	Oracle v10 Client (Net10) Oracle v11 Client (Net11) Oracle 12c Client Oracle 18c Client Oracle 19c Client Oracle 21c Client Oracle Instant Client <b>Note:</b> You must use the 32-bit version of SQL Optimizer if you use the 32-bit Oracle Client, and the 64-bit version of SQL Optimizer if you use the 64-bit Oracle Client.
<b>Database Server</b>	Oracle 10g R2, 11g R1, 11g R2, 12c Release 1, 12c Release 2, 18c, 19c, 21c SQL Optimizer has been tested on Oracle Exadata 2.0 running Oracle database 11g R2. <b>Important:</b> It is recommended that you use an Oracle Client of the same



Requirement	Details
	release/version (or later) as your database server. This is an Oracle recommendation to prevent performance issues.
<b>Cloud Database Service</b>	Oracle Database as a Service Oracle databases running on Amazon EC2, Amazon RDS, and Microsoft Azure Oracle AWS/RDS

## Virtualization Support

Before installing SQL Optimizer for Oracle®, review the following for virtualization support:

Type	Details
<b>Application Virtualization</b>	SQL Optimizer has been tested with the following: <ul style="list-style-type: none"> <li>• Citrix XenApp 6.5 on Windows Server 2008 R2</li> <li>• Microsoft Application Virtualization (App-V) 5.0 on Windows 7 and Windows Server 2012</li> </ul>
<b>Server Virtualization</b>	SQL Optimizer has been tested with the following: <ul style="list-style-type: none"> <li>• Oracle VM 2.2.0 running on Oracle Enterprise Linux 5 Update 2 64-bit with Oracle 10g R2</li> <li>• Oracle VM 2.2.0 running on Oracle Enterprise Linux 5 Update 3 32-bit with Oracle 11g R1</li> <li>• Oracle VM 3.1.1 running on Windows Server 2008 R2 with Oracle 11g R2</li> <li>• Oracle VM 3.2.2 running on Oracle Linux Release 6 Update 4 Media Pack v1 for x86 (32-bit) with Oracle 10g R2.</li> <li>• Oracle VM 3.2.2 running on Windows Server 2008 R2 64-bit with Oracle 11g R1.</li> <li>• Oracle VM 3.2.2 running on Oracle Linux Release 6 Update 4 for x86_64 (64-bit) with Oracle 11g R2.</li> </ul>
<b>Note:</b> SQL Optimizer may work in virtualization environments other than the ones in which it was tested.	

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# Product Licensing

## *To activate a trial license*

1. Enter the Authorization Key included in your Trial Email into the License Key field of the License dialog.
2. Enter the Site Message included with your Authorization Key.

## *To activate a purchased commercial license*

1. Enter the Authorization Key included in your Purchase Email into the License Key field of the License dialog.
2. Enter the Site Message included with your Authorization Key.

# Getting Started with SQL Optimizer

## Contents of the Release Package

The SQL Optimizer for Oracle release package contains the following products:

1. SQL Optimizer for Oracle
2. Product Documentation, including:
  - Installation Guide
  - User Guide
  - Online Help, which includes tutorials

## Installation Instructions

Refer to the *SQL Optimizer for Oracle Installation Guide* for installation instructions.

### Upgrade from Previous Release

SQL Optimizer 8.7 (or later) does not support an upgrade from the 32-bit version to the 64-bit version (or 64-bit to 32-bit). To upgrade from the 32-bit version of SQL Optimizer to the 64-bit version, please uninstall the previous 32-bit version. See ST102226 in the [Known Issues](#) section for more information.

**Note:** SQL Optimizer 8.7 (or later) supports side-by-side installation of versions with different "bitness" as long as they are also different releases (e.g., 8.6 and 8.7) or different editions (e.g., Commercial and Trial).

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## Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

The release is localized to the following languages: Chinese (Simplified), Korean.

# About Us

## We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation.

## Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece—you—to the community, to the new Quest.

## Contact Quest

For sales or other inquiries, visit [www.quest.com/contact](http://www.quest.com/contact).

## Technical Support Resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

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