Tosska SQL Tuning Expert for Oracle® 3.1.0 - Release Notes Release Notes Dec 2019

About Tosska SQL Tuning Expert for Oracle®

Tosska SQL Tuning Expert (TSE[™]) for Oracle® is a tool to tune your SQL automatically.

Function with limitations without a license

The software provides up to 20 automatic SQL alternatives and 30 single SQL's index recommendations for free to solve most common SQL performance problems before you purchase a license.

Supported Oracle® versions

Oracle® 11.2 or higher

New Features

SQL Tuning Expert for Oracle 3.1.0

SQL Tuning Expert 3.1.0 is a minor release which includes following enhancements and resolved issues.

Tune SQL

Parallel hints are enabled only when intelligence level is set to 4 or 5.

Rename button "Abort" to "Abort All" for aborting "Explore alternatives" or "Test run" process, rename button "Abort" to "Abort Current" for aborting currently running SQL alternative.

Show warning message when test run SQL alternatives or recommend indexes.

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Resolved Issues in 3.1.0

Feature	Resolved Issue	Issue ID
Tune SQL	Corrected an error "Value cannot be null. Parameter name:	TSE-1074
	Value" when explain plan, explore alternatives or tune SQL.	
Common	Corrected the wrong connection name on the status bar	TSE-566
	when the connection profile is changed.	

SQL Tuning Expert for Oracle 3.0.1

SQL Tuning Expert 3.0.1 is a major release which includes new features, enhancements and fixes.

Tune SQL

• New recommend indexes for single SQL

You can recommend indexes for single SQL with our AI technologies without compromise. The feature will explore potential best indexes to improve the given SQL speed

SQL	Indexes	Report		
				1000
Recommend 🐻 Explai	in Plan 🙆 Explore Indexes 🗳	Test Run 🔻 🗖 Compare I	ndexes 🔵 Abort 💃 (Clear 👻 📃 S

• SQL Tuning Solution Report

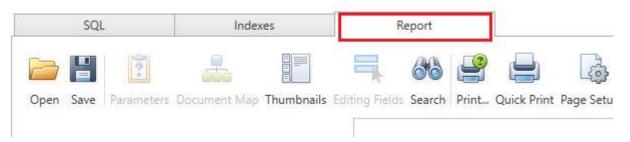
A SQL tuning report is provided after the SQL tuning and Indexes tuning processes, you can use the report to compare the performance gains of both SQL alternatives and



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indexes sets and decide which solution is worth implementing.



• Test Run

Provide option to flush data buffer before each execution of SQL alternative when **Run all SQL once** is selected. This is useful for those SQL which are not executed

frequently.

General	Filtering Method & Test Run Order	Termination Criteria
Executing	Method	
Select a r	method to measure the performance o	your SQL statements:
🔿 Static		
Dyna	mic	
Timing N	lethod	
🖲 Run a	II SQL once	
E Fl	ush data buffer before executing every	SQL alternative
Run c	original SQL 2 times and all other altern	atives once
🔿 Run a	II SQL 2 times and use the second SQI	run time
 If origonal only. 	inal SQL's run time less than <u>10</u> seco	ds, run all SQL _2_ times; otherwise, run all SQL onc

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New Mark best scenario with criteria - "Logical Reads".

General	SQL Tuning Level	SQL Indexing Level	Test Run	Deploy Plan	Log	1
		- 11:				
	st scenario with criter	la				
Elaps	ed time					
Resp	onse time					
🔿 Physi	cal reads					
	al reads					
	Used by this session					

New option "Skip test run original SQL". This option is useful when you already know your original SQL's elapsed time or you know it will takes too long to test run the original SQL.

			Original
Run All (Options		
General	Filtering Method & Test Run Order	Termination Criteria	
		f your SQL statements:	
Skip t 🗌 Skip t	est run original SQL fethod		
	all SQL once ush data buffer before executing every	SQL alternative	
O Run o	original SQL 2 times and all other altern	natives once	
🔿 Run a	all SQL 2 times and use the second SQI	run time	
	ginal SQL's run time less than <u>10</u> seco	nds run all SOL 2 times of	herwise run all SOL once

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Resolved Issues in 3.0.1

Feature	Resolved Issue	Issue ID
Tune SQL	The performance bar is not visible when the SQL	TSEP-995
	performance improvement near to 100%	
Tune SQL	Fixed an exception when tuning a SQL	TSEP-1003
Tune SQL	Corrected an error if unselect all SQL alternatives when	TSEP-1054
	exploring SQL alternatives	
Tune SQL	Fixed the issue that default data type of bind variable is	TSEP-726
	not correct for specific SQL.	
General	Fixed an exception when launch application	TSEP-874
Connection	List the TNS names in connection manager with instant	TSEP-821
Manager	Oracle client	
Connection	Corrected an error when launch application if TNS file with	TSEP-1048
Manager	invalid entries.	
Connection	Corrected an error when launch application without TNS	TSEP-1059
Manager	file.	
Connection	Show message when connect to the database which is not	TSEP-855
Manager	supported	

SQL Tuning Expert for Oracle 2.0.3

SQL Tuning Expert 2.0.3 is a major release which includes new features, enhancements and fixes.

Tune SQL

Improve problem-solving ability with more Hints are supported

General

Export execution plan to PDF or image;

Print execution plan

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Language Support

UI Languages Supported: English, Chinese(simplified) and Japanese

Resolved Issues in 2.0.3

Feature	Resolved Issue	Issue ID
Common	SQL Text wrongly warped in SQL Editor	TSE-580
SQL Tuning	Improved progress bar style during test run	TSE-336

SQL Tuning Expert for Oracle 1.5.0

SQL Tuning Expert 1.5.0 is a minor release which includes following enhancements.

Tune SQL

Support merge statements.

Better problem solving ability with more SQL alternatives generation

New Bind Variables window

SQL Tuning Expert for Oracle 1.1.2

SQL Tuning Expert 1.1.2 is a hotfix release which includes following resolved issues.

Resolved Issues in 1.1.2

Feature	Resolved Issue	Issue ID
SQL Tuning	Corrected an error when attempting to Tune or Test Run a	TSE-302
	SQL with SELECT statement returning empty string.	



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SQL Tuning Expert for Oracle 1.1.1

SQL Tuning Expert 1.1.1 is a hotfix release which includes following resolved issues.

Resolved Issues in 1.1.1

Feature	Resolved Issue	Issue ID
SQL Tuning	Corrected an error when attempting to Tune or Test Run a	TSE-283
	SQL with the same bind variable exists multiple times or	
	the bind variable is not associated with any table's column.	

SQL Tuning Expert for Oracle 1.1.0

SQL Tuning Expert 1.1.0 is a major release which includes following new features.

Tune SQL

It is a very powerful tool to tune your SQL statements in a fully automatic manner without the need of user's expertise involvement. Our AI engine will try most effective hints combinations to your SQL statement to explore potential better execution plans of your SQL statement. You can select the best performance SQL alternative for your application after benchmarking of all or selected SQL alternatives generated by the engine.



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