

# Tosska SQL Tuning Expert for Oracle® 3.2.0 - Release Notes

Release Notes

June 2020

### 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 3.2.0

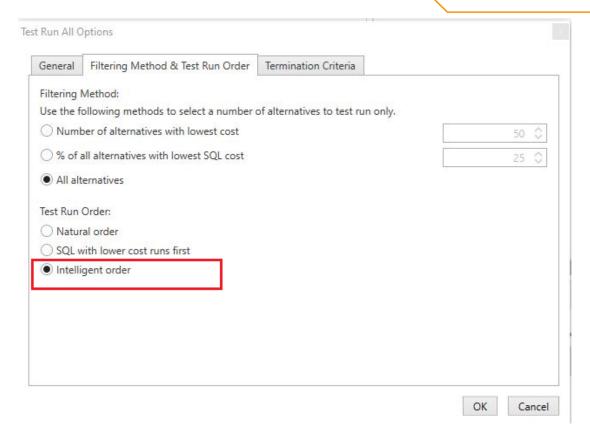
SQL Tuning Expert 3.2.0 is a minor release which includes following enhancements and resolved issues.

#### Tune SQL

Provide a new Test Run Order "Intelligent order" to speed up the SQL tuning and test run process.

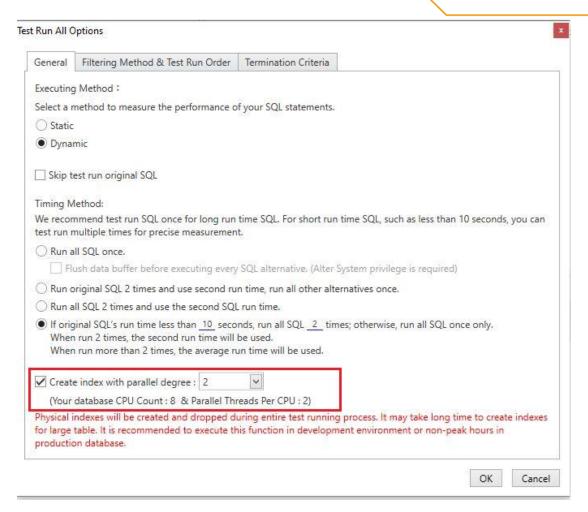






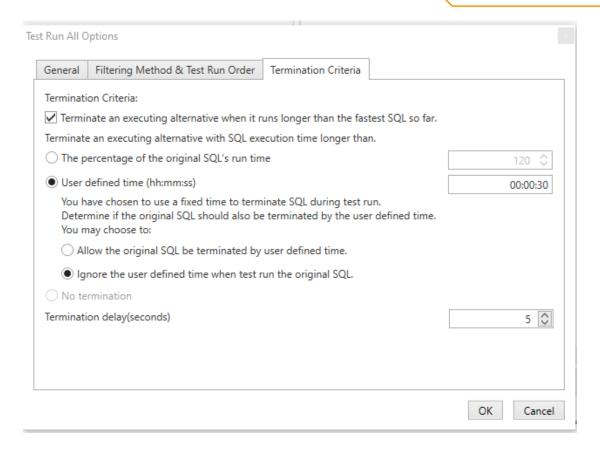
Provide an option "Create index with parallel degree" to create physical indexes in parallel to speed up indexes test running process.





Updated Test Run Termination Criteria to speed up the SQL tuning and index recommendation process.





Removed "Test Run Current" and enhanced "Test Run Selected" to test run one or more selected SQL alternatives.

Improved the intelligence of indexes recommendation for single SQL.

Improved Support Bundle.

#### Common

Support docking and user can customize display layout.

Remember column position in all grid windows.

Display datetime with 4 decimals for second in grid columns.

Provide an option "Purge SQL submitted by this tool from SGA" to purge SQL statements fired by this tool.

"Alter System" privilege checking is deferred until it is required for specific function.





#### Resolved Issues in 3.2.0

Feature	Resolved Issue	Issue ID
Tune SQL	Fixed an error "Sequence contains no elements" when	TSE-1100
	explore indexes	
Tune SQL	Fixed the issue that the button to show / hide SQL tuning	TSE-555
	session history disappear in some screen resolution.	
Common	Fixed the issue that missing privileges are not updated	TSE-1162
	when click Refresh button in "Check Database Privileges"	
	window after part of privileges are granted.	

### 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.

#### 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.	



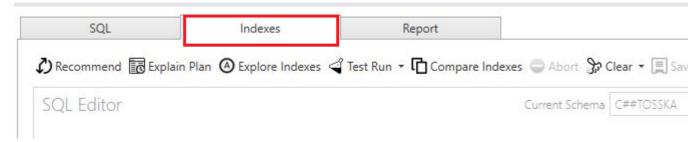
### SQL Tuning Expert for Oracle 3.0.1

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

### Tune SQL

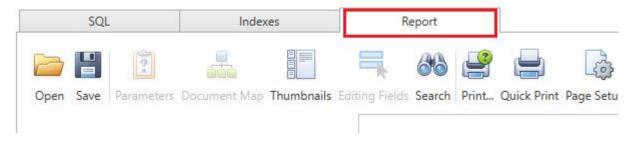
New recommend indexes for single SQL

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 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 indexes sets and decide which solution is worth implementing.

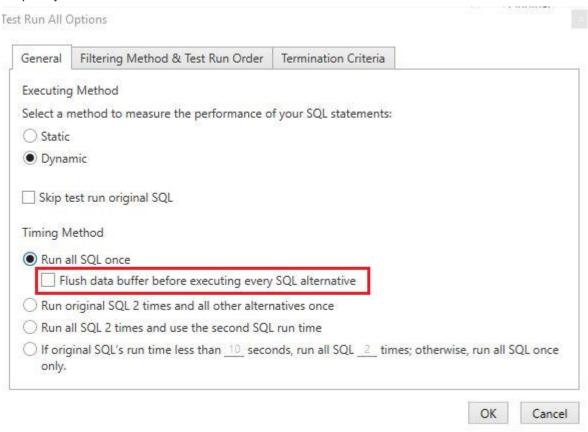


Test Run

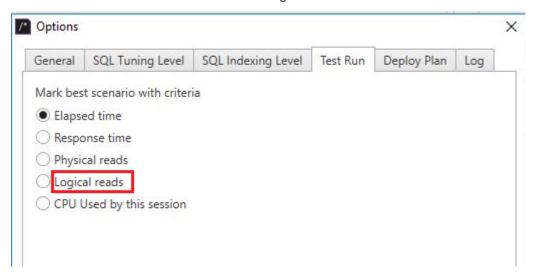
Provide option to flush data buffer before each execution of SQL alternative when **Run all SQL once** is selected. This is useful for those SQL which are not executed



#### frequently.



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



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.



			( Irininal
Run All (	Options		
General	Filtering Method & Test Run Order	Termination Criteria	
		f your SQL statements:	
Skip t	test run original SQL		
O Run a	all SQL once lush data buffer before executing every	SQL alternative	
O Run o	original SQL 2 times and all other altern	natives once	
O Run a	all SQL 2 times and use the second SQI	run time	
	. 10011 .: 1 .1 .10	nds, run all SQL 2 times; ot	hanvisa nun all SOL once

### 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

### 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.	

## 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.