# Tosska SQL Tuning Expert for MySQL® 2.3.0 - Release Notes

Release Notes

May 2021

## About Tosska SQL Tuning Expert for MySQL®

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

## Supported MySQL® versions

MySQL® 5.6 or higher

## New Features

## SQL Tuning Expert for MySQL 2.3.0

SQL Tuning Expert 2.3.0 is a minor release which includes enhancements and fixes.

### Tune SQL

- Rewrite SQL

    Support to rewrite SQL with cast function.

### Resolved Issues in 2.3.0

| Feature | Resolved Issue | Issue ID |
|---------|----------------|----------|
| Tune SQL | Fixed the problem when Tune SQL with substring function. | STEM-506 |
| Tune SQL | Fixed the problem that the user cannot resize columns of the SQL Scenario grid. | STEM-516 |
| Tune SQL | Fixed a rewrite mistake for the specific syntax of SQL. | STEM-522 |
| Tune SQL | Fixed an error when Explain, Test Run, or Tune SQL with bind variables in a CASE expression. | STEM-536 |
| Tune SQL | Fixed an error caused by the official database connector when connecting to the database | STEM-541 |

## SQL Tuning Expert for MySQL 2.2.0

SQL Tuning Expert 2.2.0 is a minor release that includes enhancements and fixes.

### Tune SQL

- Rewrite SQL

  Improved the SQL rewrite ability.

### Resolved Issues in 2.2.0

| Feature | Resolved Issue | Issue ID |
|---------|----------------|----------|
| Tune SQL | Fixed an issue that SQL alternatives are not sorted after a test run. | STEM-396 |
| Tune SQL | Fixed a rewrite mistake for the specific syntax of SQL with a subquery. | STEM-462 |
| Tune SQL | Fixed the problem of test run failure for the rest of SQL alternatives when one of the SQL alternatives is terminated by timeout criteria. | STEM-486 |
| Tune SQL | Fixed an issue that SQL syntax is not supported when Windows default language is not English. | STEM-502 |

## SQL Tuning Expert for MySQL 2.1.0

SQL Tuning Expert 2.1.0 is a minor release which includes enhancements and fixes.

### Tune SQL

- Rewrite SQL

  Improved the ability to SQL syntax rewrite.

### Resolved Issues in 2.1.0

| Feature | Resolved Issue | Issue ID |
|---------|----------------|----------|
| Tune SQL | Fixed some errors when rewrite. | STEM-449 |

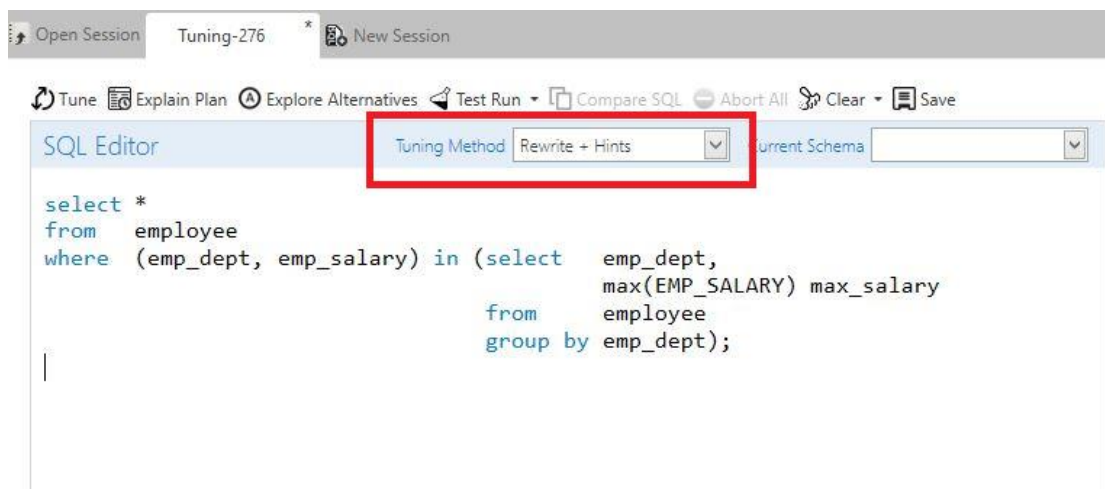| Tune SQL | Fixed an issue that Explore SQL Alternatives Summary is not cleared after clicking Clear Except Original button. | STEM-443 |
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## SQL Tuning Expert for MySQL 2.0.0

SQL Tuning Expert 2.0.0 is a major release which includes new features, enhancements and fixes.

### Tune SQL

- Rewrite SQL

  A new powerful A.I. SQL Rewrite Engine to help users to rewrite their problematic SQL statements to potential better semantic equivalent SQL alternatives. User can select "Rewrite + Hints", "Rewrite Only" or "Hints Only" method in "Tuning Method" dropdown menu to tell our A.I. Rewrite Engine which tuning method will be used to tune a given SQL.



- Bind Variables
  Improved the ability to detect the data type of bind variables.
- Mark Best SQL Alternative
  An icon is shown to mark the best SQL alternative after SQL tuning or test running.
- Plan Viewer
  Improved Visual Plan.

- SQL Tuning session history

  Show scrollbar if there are too many saved SQL tuning sessions.
- Compare SQL

  Improved Compare SQL window for better SQL text and plan comparison

## Resolved Issues in 2.0.0

| Feature | Resolved Issue | Issue ID |
|---------|----------------|----------|
| Tune SQL | Fixed an error when Explain, Tune, Explore Alternatives, or Test Run SQL with bind variable of TIME data type. | STEM-295 |
| Tune SQL | Fixed the wrong plan step number in the Tree plan. | STEM-317 |
| Tune SQL | Fixed an error when Explain, Tune, Explore Alternatives, or Test Run SQL with invalid bind variable symbol. | STEM-326 |
| Tune SQL | Fixed an error when abort explain plan process. | STEM-334 |
| Tune SQL | Fixed the issue that the button to Hide / Show SQL tuning session history may disappear with some screen resolution. | STEM-335 |