

Toad Edge™ 1.1.0

Release Notes

August 2017

These release notes provide information about the Toad Edge release.

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About Toad Edge™ 1.1.0

Toad Edge™ is a database management application that allows you to perform database administration tasks with ease.

Toad Edge™ allows you to:

- Connect to your MySQL database, view, explore and edit database structure, database objects and properties
- Manage database objects, easily add, edit or drop objects in **Object Explorer**
- Manage data stored in your database, add, edit or remove records
- Write complex SQL code comfortably in **Worksheet**
- Compare and synchronize databases using powerful **Schema Compare**
- Obtain detailed information about your databases

Toad Edge 1.1.0 is a new release. See [Features](#) for more information.

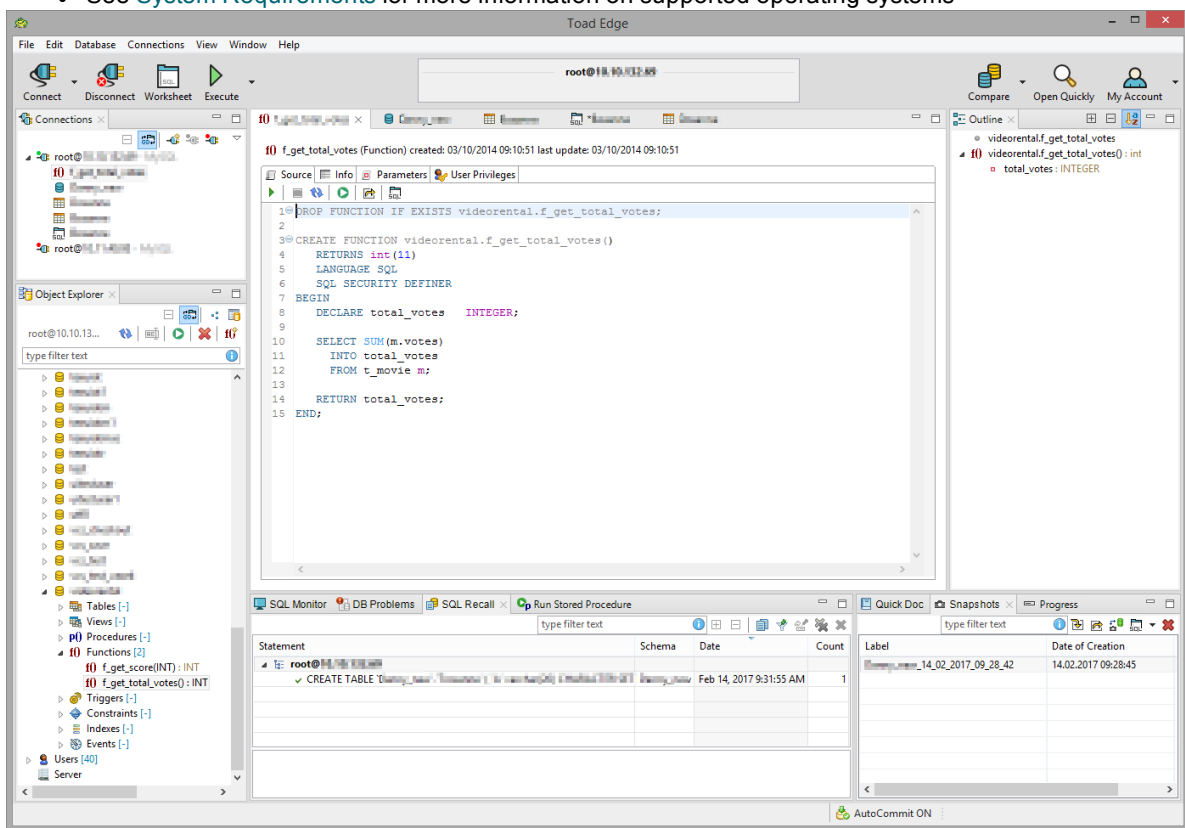
Features of Toad Edge

In Toad Edge™ 1.1.0 the following new features were implemented:

General features

Support for Windows and macOS

- Toad Edge runs on both Windows and macOS operating systems
- See [System Requirements](#) for more information on supported operating systems



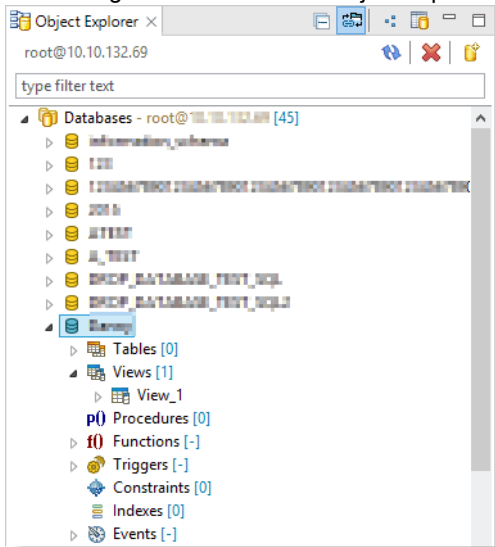
Enterprise Technical Support

- Commercial editions of Toad Edge come with [Quest enterprise technical support](#)
- 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
 - Download software and technical documentation
 - Chat with support engineers online
 - And more...

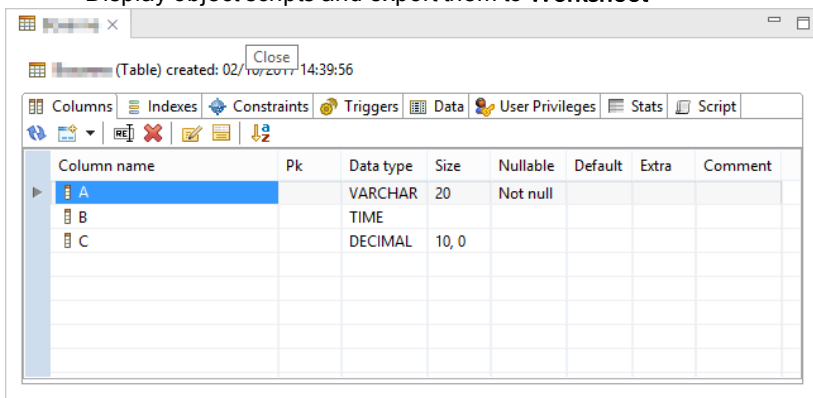
Object Explorer

- Manage database objects, easily add, edit or drop objects in **Object Explorer**
- Right-click a database object to perform actions like **Export Data**



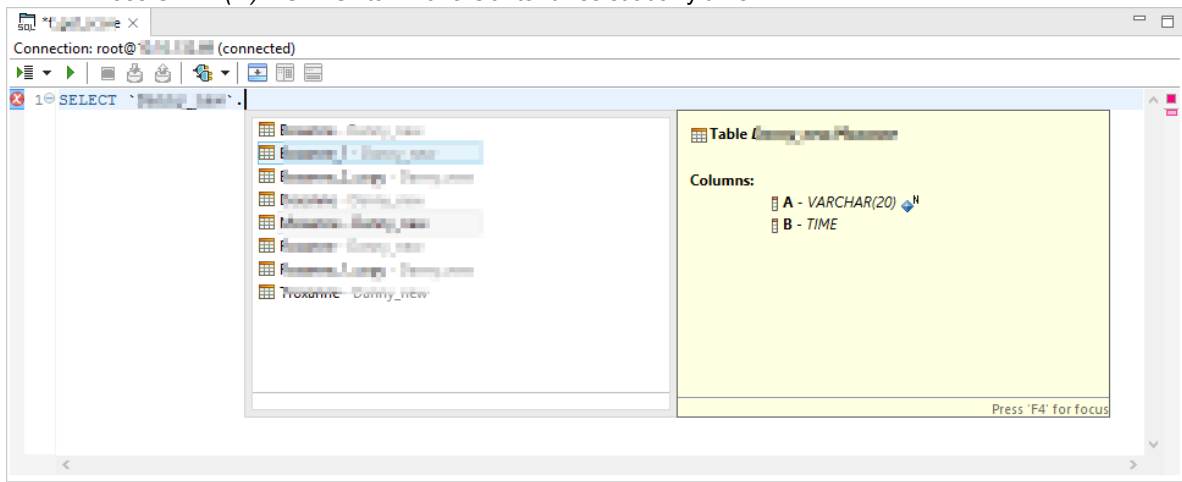
Object Detail Editors

- Edit database objects with ease
- Manage data stored in your database, add, edit or remove records
- Obtain detailed information about your databases
- Display object scripts and export them to **Worksheet**

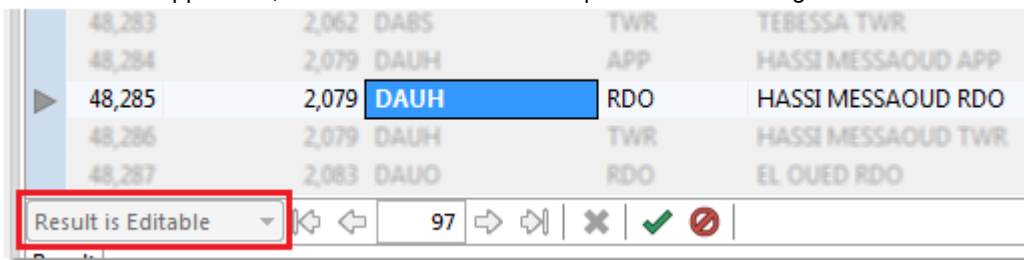


SQL Worksheet

- Write complex SQL code comfortably in **Worksheet** with Content Assist
- Content Assist helps you write your code more quickly
- Press **CTRL (#) + SPACE** to invoke Content Assist at any time

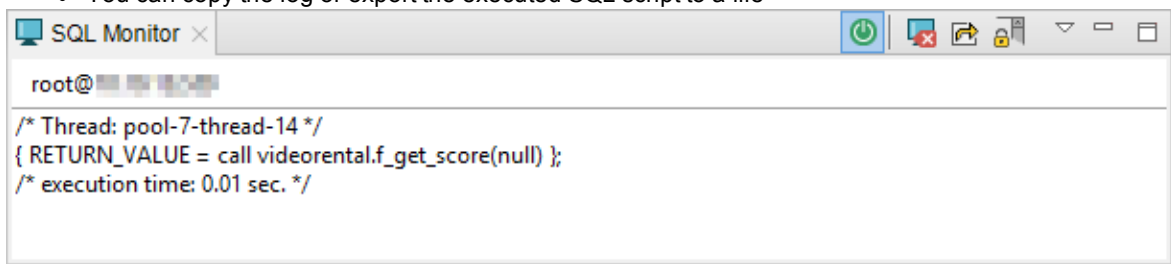


- Results of SELECT statements are displayed in the **Result Set**
- Where applicable, the results can be edited in-place and the changes can be immediately saved



SQL Query Monitor

- View the history of both internal and user executed queries
- You can copy the log or export the executed SQL script to a file



Export Data

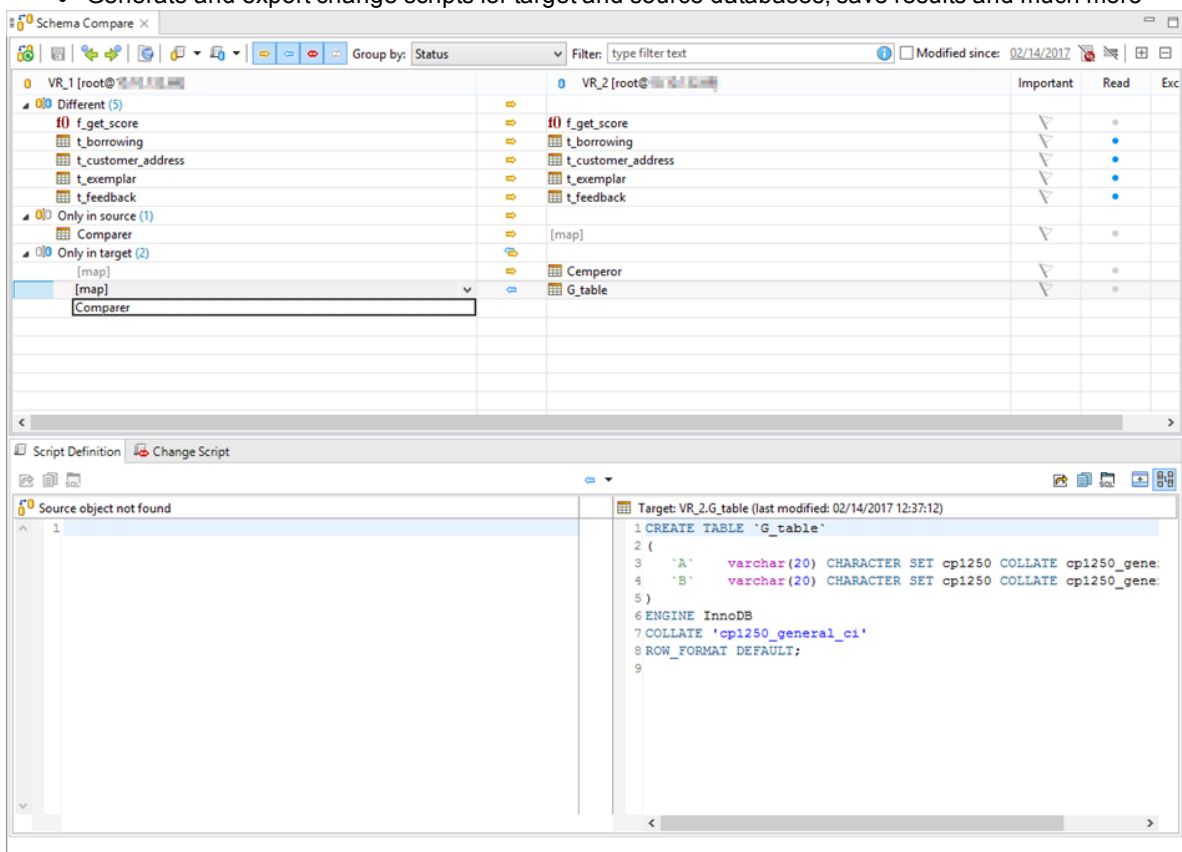
- Use **Export Data** Wizard to easily export data from tables
- Right-click a table in **Object Explorer** and select **Export Data**
- You can also export table/view records and query results
- Configure export options such as destination, format, range of exported data and others in wizard

Import Data

- Use **Import Data** Wizard to quickly import data to tables
- Right-click a table in **Object Explorer** and select **Import Data**
- You can import data from SQL or CSV files or ZIP archives with SQL/CSV content

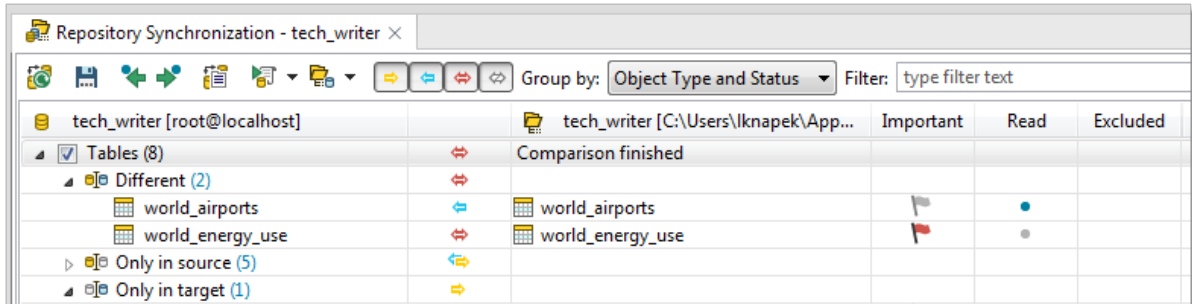
Schema Compare and Synchronize

- Compare and synchronize databases using powerful **Schema Compare**
- Click **Compare** button to launch **Schema Compare** Wizard
- Select source and target databases and schema comparison settings
- Generate and export change scripts for target and source databases, save results and much more



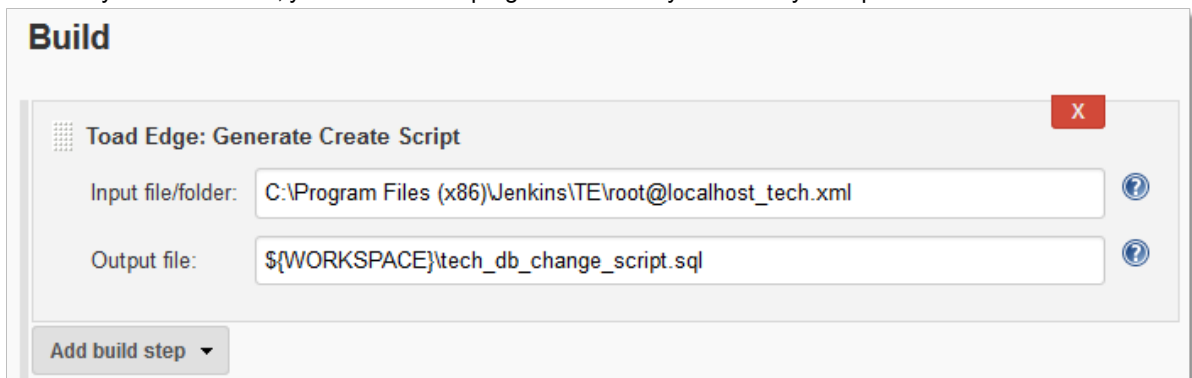
Repository

- Map your databases to a file system as a repository
- The database metadata is represented as a structure of folders and JSON files representing objects
- Track the repository in your favorite version control system



Continuous Integration and Delivery

- Generate files and scripts to perform certain tasks (such as comparing databases, generating change scripts or reports...)
- Use the files and scripts in continuous integration system of your choice (Jenkins, TeamCity, etc.) to perform these tasks automatically
- If you use Jenkins, you can install a plugin that allows you to easily set up automated tasks



Advanced user privilege management

- Grant and revoke user privileges for any object on several levels using a convenient interface
- Privileges can be viewed both from user and object point of view
- Also supported are wildcard pattern privileges and proxy privileges

| User Name | GRANT OPTION | SELECT | INSERT |
|--------------------|--------------|-----------------------|-----------------------|
| JoeDBA`@localhost | ✓ Granted | ✓ Granted & Inherited | ✓ Granted & Inherited |
| JohnDoe`@localhost | | ✓ Granted | ✓ Granted |
| John`@localhost | | ✓ Granted | ✓ Granted |
| root@127.0.0.1 | ⚡ Inherited | ⚡ Inherited | ⚡ Inherited |

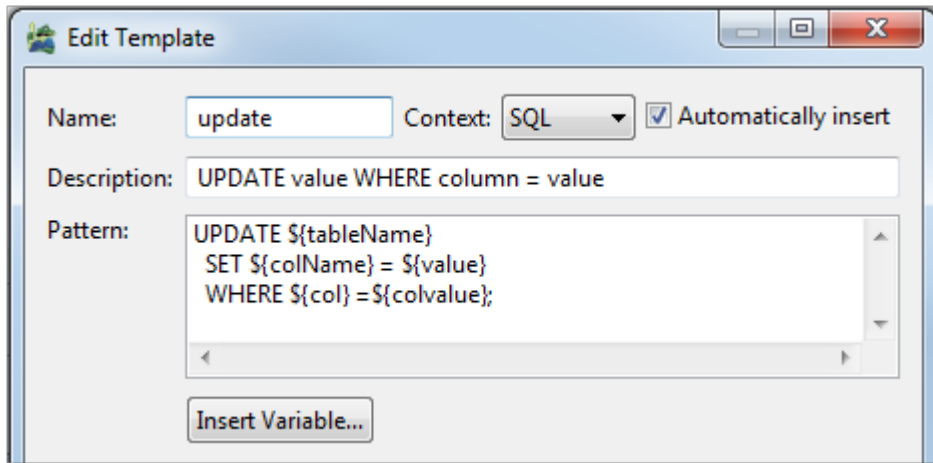
Database Snapshot

- Snapshots represent your database structure at specific time as a JSON file
- Right-click your database and select **Take Snapshot**
- Stored Snapshots are displayed in **Snapshots View**
- Compare and synchronize snapshots with the current state of your active database using Schema Compare
- Export the snapshot SQL script to a file, clipboard or **Worksheet**

| Snapshots | Date of Creation | User |
|-----------------------------|---------------------|----------|
| MySQL 5.7 (AWS) | | |
| Pelican | | |
| Pelican_2017_04_23_12_08_12 | 24.04.2017 15:18:43 | charonwa |

Code snippets and templates

- Create, modify and reuse code templates in either SQL or JSON context
- The created templates can be applied at any time using Content Assist



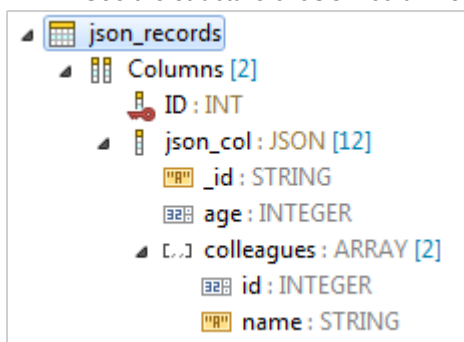
Session Browser

- View, inspect and terminate any sessions of any database you are connected to

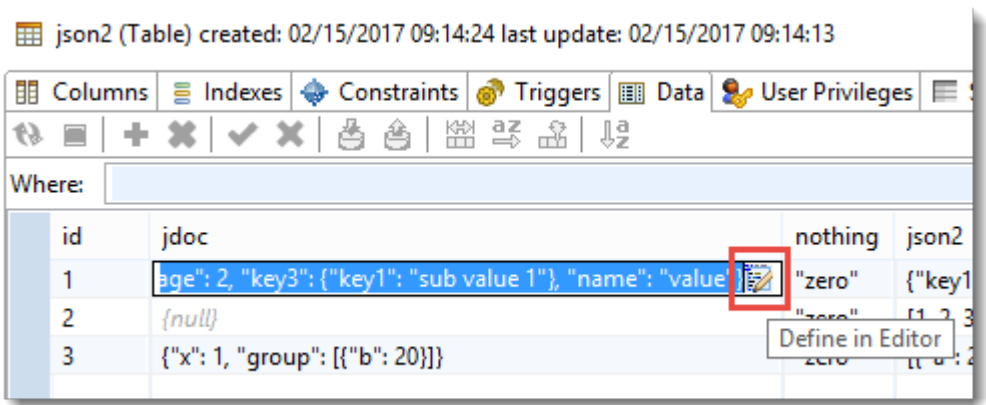
| ID | User | Host | DB | Command | Time | State | Thread ID |
|----|---------|-----------|-------------|---------|------|--------------|-----------|
| 6 | root | localhost | tech_writer | Query | 0 | Sending data | 26 |
| 9 | John | localhost | tech_writer | Sleep | 141 | | 29 |
| 2 | JohnDoe | localhost | tech_writer | Sleep | 44 | | 41 |

MySQL JSON support and Editor

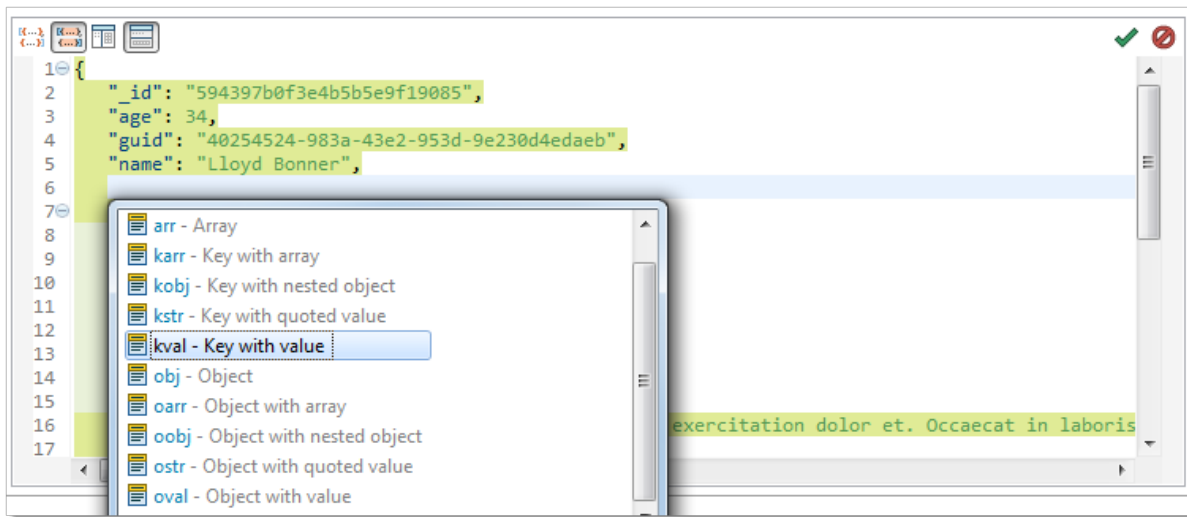
- MySQL 5.7 offers support for native JSON (JavaScript Object Notation) datatype
- See the structure of JSON columns in both **Object Explorer** and **Outline View**



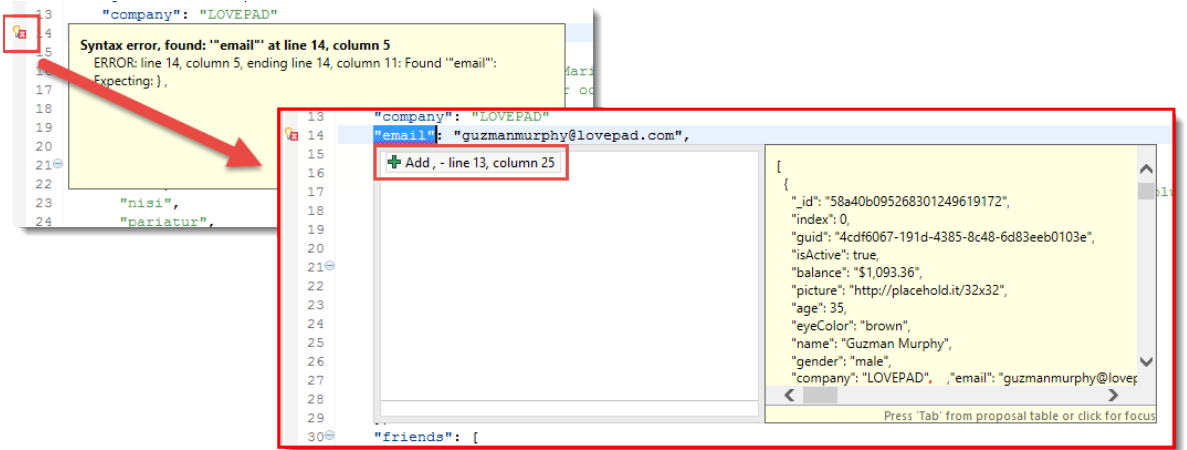
- Go to **Data** tab in **Object Detail** of a table that contains a JSON datatype column
- Edit any JSON value easily in an advanced editor by clicking the **Define in Editor** button



- Utilize Content Assist while working with your JSON scripts
- Turn on **Brackets highlighting** or **Brackets content highlighting** to visualize script segments
- Use **Outline View** to see the structure and navigate JSON scripts

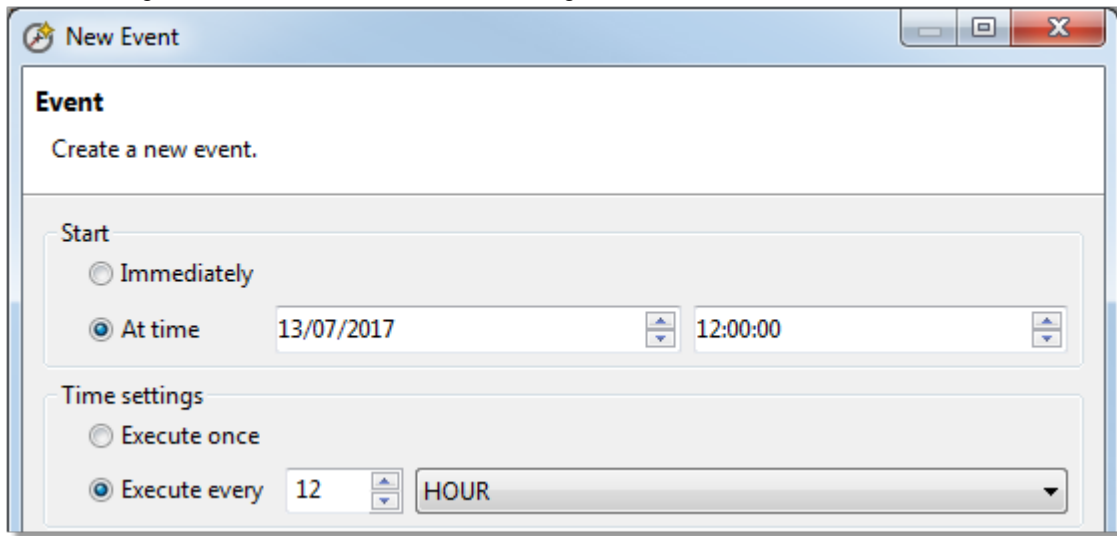


- Use **Quick Fix** to resolve simple syntax errors in your JSON code



MySQL events support

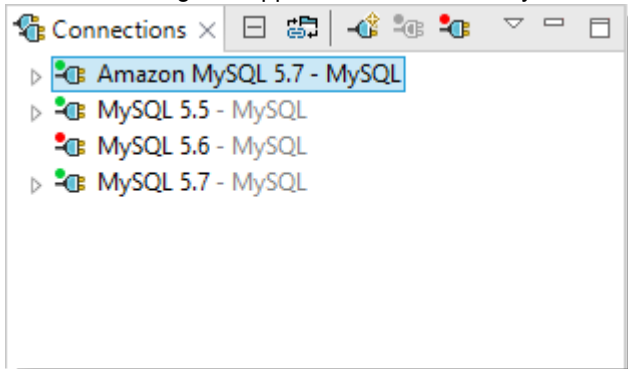
- Create new events using an intuitive wizard
- Configure the start, end and other time settings of events



Database features

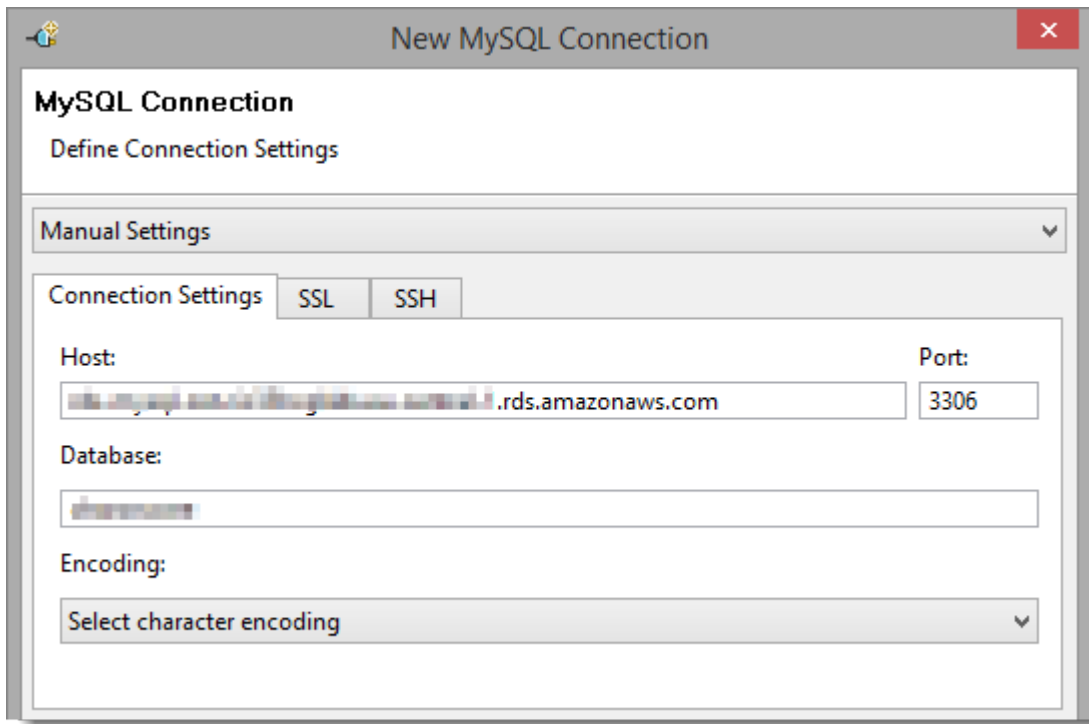
Support for MySQL 5.5, 5.6 and 5.7

- Toad Edge™ supports the three latest MySQL versions



Support for on premise and Amazon RDS MySQL

- Use full Toad Edge functionality with your on-site or cloud databases



Known issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release.

General known issues

| Known Issue | Issue ID |
|--|----------|
| <p>Mouse cursor may become invisible in specific circumstances related to errors in Worksheet.</p> <p>Workaround: Switch into a different Toad Edge View and back.</p> | 5942 |
| <p>After upgrading from Toad Edge 1.0 , databases that were mapped (as part of Repository) will lose their mapping.</p> | 8223 |
| <p>When a database is synchronized with Repository, changes made to tables in the database that have been created using BLACKHOLE, CSV or FEDERATED engine are not detected in Object Explorer.</p> <p>Workaround: Display the comparison window (right-click the database Repository Synchronize). The changes will be detected and subsequently displayed in Object Explorer.</p> | 8332 |
| <p>After upgrading from Toad Edge 1.0, the latest MySQL JDBC driver is not automatically mapped.</p> <p>Workaround: Map the latest driver manually in Preferences Database. The driver can be found in <i>C:\Program Files\Quest Software\Toad Edge\lib\drivers</i>.</p> | 8536 |

| Known Issue | Issue ID |
|--|----------|
| Toad Edge changes double quotes to single quotes in synchronization script generated for stored procedures, events and triggers which using dynamic SQL. | 8750 |

Third-party known issues

| Known Issue | Issue ID |
|--|----------|
| Setting up increased DPI (125%) causes some Toad Edge Tab labels to display incorrectly. Workaround: Set DPI to 100%. | 6515 |
| Loading identical Table Details on two connections may cause the dialogs that modify these tables to freeze. Workaround: End Toad Edge using Task Manager. | 7517 |
| After removing the Primary Key and making the column unique, MySQL still keeps PRI as the column key in columns table. | 7249 |
| MacOS connections to Amazon RDS databases may automatically expire and be dropped. | 7621 |
| Year 2000 in Year(2) data type (00) is not correctly represented in Object Detail or Result Set as JDBC driver raises an exception if the value of the year is 0. Such values are represented in grids as unknown. | 8264 |
| Names of functions with special characters are not stored properly in a database even when UTF-8 encoding is used. This can cause side effects such as not being able to grant a privilege to a function as its name in query is different from the actual stored name. Workaround: Replace special characters by basic (ASCII). | 7287 |
| MySQL time values are displayed as (invalid value) in Object Detail and Result Set if they are outside the range 00:00:00-24:00:00. This is a limitation of JDBC driver. | 8236 |
| On Windows 10 closing a tab in Toad Edge using a drop-down menu may close other tabs than intended. | 8478 |
| Batch files that use UTF-8 BOM encoding cannot be executed by the Toad Edge command line interface. Workaround: The CI/CD Wizard in Toad Edge generates files using pure UTF-8 encoding. Do not change the encoding once the files are generated. | 8486 |
| Updating system Java may delete certain Toad Edge libraries. This results in the application being unable to connect to databases or obtain licenses. Workaround: The only way to restore the deleted files is to reinstall Toad Edge | 8603 |

System requirements

Before installing Toad Edge 1.1.0, ensure that your system meets the following minimum hardware and software requirements.

i | **NOTE:** Toad Edge™ is distributed with the latest MySQL Connector/J 5.1.42 and with Java Runtime

Hardware requirements

| Requirement | Details |
|-----------------|--|
| Processor | Minimum dual core 64-bit processor |
| Memory | Minimum 4 GB RAM |
| Hard disk space | Minimum 500 MB + additional disk space for user data |

Software requirements

| Requirement | Details |
|--------------------|---|
| Operating System | Windows 10 (64-bit) Windows 8.1 (64-bit) Windows 7 (64-bit) Windows Server 2012 R2 (64-bit) macOS 10.12 Sierra (64-bit) OS X 10.11 El Capitan (64-bit) |
| Other requirements | .NET 4.0 is required to install the application on Windows 7 |

i **NOTE:** Toad Edge may also run on virtual versions of the mentioned operating systems. Please note, however, that these configurations were not tested.

Database requirements

| Supported database | Version | MySQL Engines |
|--------------------|---------------|----------------|
| MySQL | 5.5, 5.6, 5.7 | InnoDB, MyISAM |

Other Requirements

| | |
|---------------------|--|
| Internet connection | In order to sign-in and validate your license internet connection is required to connect with our licensing servers. |
| Internet browser | In order to view documentation an internet browser is required. Internet Explorer 10 or later is recommended. |

Product licensing

Three types of licenses are available for Toad Edge:

- **Freeware** - basic mode which is active when no other license is supplied
- **Trial** - unlimited mode which lasts for a set period (for example, the initial 30-day Trial)
- **Commercial** - unlimited mode gained by purchasing and using a Commercial license in the application

As mentioned in [Introduction](#), you need to create and sign in to your Quest Software account in order to start using Toad Edge. After you create your account, you are provided an initial 30-day Trial license. This allows you to try out the application and all of its features.

Once the Trial period elapses, you can purchase and supply a Commercial license to continue using Toad Edge without limitations. Otherwise, the application will revert to the Freeware mode. You will be still able to use all Freeware features, but you will not be able to access Commercial features.

The following matrix lists all features that can be used in Freeware and Trial/Commercial versions of Toad Edge.

| Feature | Commercial | Freeware |
|------------------------------------|------------|----------|
| MySQL features | | |
| Support for JSON data types | ✓ | ✓ |
| JSON structure visualization | ✓ | ✗ |
| JSON in-place data editor | ✓ | ✗ |
| MySQL Events editor | ✓ | ✗ |
| Advanced user privilege management | ✓ | ✗ |
| SQL Worksheet/Editor | | |
| Advanced Intellisense | ✓ | ✗ |
| Syntax check | ✓ | ✓ |
| Code formatting | ✓ | ✓ |
| Multiple statement execution | ✓ | ✓ |
| Execution from/to position | ✓ | ✓ |
| Data editor | | |
| Table lookup via foreign keys | ✓ | ✓ |
| Basic data filters | ✓ | ✓ |
| Data type specific data editors | ✓ | ✓ |

| Feature | Commercial | Freeware |
|--|------------|----------|
| Editable result grid | ✓ | ✗ |
| Export and import | | |
| Export to CSV | ✓ | ✗ |
| Export to SQL | ✓ | ✓ |
| Export to HTML | ✓ | ✓ |
| Export to XML | ✓ | ✓ |
| Import from SQL | ✓ | ✓ |
| Import from CSV | ✓ | ✓ |
| Schema Compare | | |
| Schema/Database comparison | ✓ | ✗ |
| Advanced SQL difference recognition | ✓ | ✗ |
| Detailed SQL comparison settings | ✓ | ✗ |
| Timestamp comparison | ✓ | ✗ |
| Detailed Schema Compare reports | ✓ | ✗ |
| Generation of change scripts | ✓ | ✗ |
| Snapshots | | |
| Snapshot creation | ✓ | ✗ |
| Snapshot comparison | ✓ | ✗ |
| Versioning/Collaboration | | |
| Repository | ✓ | ✗ |
| Continuous Integration/Continuous Delivery support | ✓ | ✗ |
| Native plugin solution for Jenkins | ✓ | ✗ |
| Other application features | | |
| Object search | ✓ | ✓ |

| Feature | Commercial | Freeware |
|-------------------------|------------|----------|
| Code snippets/templates | ✓ | ✗ |
| Session browser | ✓ | ✗ |

Getting started with Toad Edge 1.1.0

Contents of installation package

The Toad Edge release package contains the following:

- Installation file of Toad Edge 1.1.0 (MSI or PKG)
- Product Documentation, including:
 - Release Notes
 - Installation Guide
 - User Guide

i | **NOTE:** Toad Edge™ is distributed with the latest MySQL Connector/J 5.1.42 and with Java Runtime Environment 1.8.0_121.

Installation Instructions

- See [System requirements](#) before installation to avoid any possible issues during installation or later when using Toad Edge
- Launch Toad Edge installation file and follow the instructions in the installation wizard

How to Install Java Cryptography Extension

- Download the latest JCE files:
 - local_policy.jar
 - US_export_policy.jar
- and use them to replace the files in Toad Edge security folder
 - (...)\\Quest Software\\Toad Edge\\bin\\jre\\lib\\security\\

Additional resources

Additional information is available from the following:

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. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. 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.

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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.

Technical Support Resources

For sales or other inquiries, visit www.quest.com/contact.

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>.

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- 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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