Toad for IBM DB2 8.0

Release Notes

Wednesday, February 5, 2025

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About Toad for IBM DB2

With Toad, developers and database administrators can use a familiar, proven tool to manage databases. Toad empowers developers and administrators, of varying skill levels, to rapidly create and execute queries, automate database object management, and develop SQL more efficiently.

Toad also provides utilities to compare, extract and search for objects, manage projects, import/export data and administer the database, while increasing your productivity and delivering access to an active user community.

New Features and Enhancements

In Toad for IBM DB2 8.0 the following new features were implemented:

Platform Support

Support for the following platforms has been provided in the current version:

- DB2 z/OS 13
- DB2 LUW 11.5.9
- DB2 Client 11.5.9
- DB2 LUW 12.1 – tolerance tested
- Windows Server 2022

Toad for DB2 Subscription Edition

We are introducing Toad for DB2 Subscription Edition, a new version developed to provide enhanced features and capabilities for Toad for DB2 users. For a detailed comparison of the Toad for DB2 editions, please refer to the Toad for DB2 Matrix Comparison.

It features a user-centric license management system that allows users to easily control their licenses, assign or remove seats for application users, all within a single access management point.

Advanced Encryption Standard (AES)

The password file encryption standard for Connections.xml files has been updated to Advanced Encryption Standard (AES).

Table space columns

The **Max Size** and **% of Used Max Size** columns have been added to the Tablespaces page. These columns display the maximum available space for the tablespace and the percentage of that space currently in use.

Dark Mode theme

The Dark Mode Style color theme is now available and set as the default color theme user interface.

Appropriate error message when DB2 Client is installed incorrectly

When the DB2 client is installed incorrectly, Toad for DB2 displays the appropriate message with a link for troubleshooting tips.

Client Configuration (CFG) file

An option to select the Client Configuration (CFG) file has been added to the **Connection** dialog, allowing users to create connections using the details stored in the CFG file.

Deprecated Platforms

The following databases/platforms are deprecated in the current release:

- Windows server 2012
- Windows server 2012 r2
- Windows 8.1

System Requirements

Client Requirements

Before installing Toad, ensure that your client system meets the following minimum hardware and software requirements:

Requirement	Details
Platform	2 GHz processor (recommended minimum)
Memory	8 GB of RAM minimum, 16 GB recommended **Note:** The memory required may vary based on the following: • Applications that are running on your system when using Toad • Size and complexity of the database • Amount of database activity • Number of concurrent users accessing the database
Hard Disk Space	800 MB to install Toad 162 MB to run Toad **Note:** The disk space required may vary based on the edition of Toad selected for installation.
Operating System	Windows Server® 2016 Windows Server® 2019 Windows Server® 2022 Windows® 10 Windows® 11
.NET Framework	Microsoft® .NET Framework 4.7.2
Database Client	When connecting to a DB2 database/subsystem, ensure that you have a DB2 Client or IBM Data Server Driver installed. Toad supports DB2 Client versions 9.7.6 through 11.5.9. Toad has been tested with the following versions of the DB2 Client: 10.5.0, 10.5.2, 10.5.3, 11.1.0, and 11.5.9.

Server Requirements

Before installing Toad, ensure that your server meets the following minimum hardware and software requirements:

Requirement	Details
Database Server	IBM DB2 for LUW 10.5, 10.5.0.5, 11.1, 11.5, 11.5.9 IBM DB2 LUW 12.1 – tolerant IBM DB2 for z/OS 11, 12, 13 **Note:** Toad may support IBM DB2 Express and SWE in addition to listed above servers but note that no testing was performed on it. **Note:** Windows 10 and Windows Server 2012 require the following Fix Pack in order to ensure registration of DLLs in Global Assembly Cache: IBM DB2 LUW 10.5 — Fix Pack 4 IBM DB2 LUW 11.1 — Fix Pack 6 IBM DB2 LUW 11.5 — Fix Pack 10

Requirement	Details
	Note: To use Access 2016 64-bit to connect to an Access database in Toad, the Microsoft Access Database Engine is required and might not be included in the Access installation. The engine must match the architecture (bitness) of Toad.

Virtualization Support

Requirement	Details
Application Virtualization	When deploying Toad in a virtualization environment, for best results ensure the system accurately reflects the applicable client hardware and software requirements listed in this document. Toad has been developed using Microsoft guidelines (see Remote Desktop Services programming guidelines) and can be deployed and operated in virtualization environments such as Citrix XenApp, Microsoft App-V, and VirtualBox. See "Install Toad on Citrix Systems" (page 1) for more information.

User Requirements

User Requirements to Install Toad

Only Windows Administrators and Power Users can install Toad.

Note: The following exceptions exist for Power Users:

- A Power User can install Toad as long as this user belongs to the DB2ADMNS or DBUSERS group.

If an Administrator installs Toad, the Administrator can share the Toad shortcut icon on the desktop and menu items with any user—a Power User, Restricted User—on the computer.

If a Power User installs Toad, a Restricted User cannot do the following:

- Associate file extensions.
- View the Toad shortcut icon on the desktop or the Toad menu options in the Windows Start menu. As a workaround, Restricted Users can create a shortcut to Toad from the install directory and place the shortcut on their desktop.

User Requirements and Restrictions for Running Toad

The following describes the requirements and restrictions for users who launch and run Toad:

- A Windows Power User or Restricted User must belong to the DB2ADMNS or DB2USERS group. To add the user to one of these groups, select **Start | Control Panel | Administrative Tools | Computer Management | System Tools | Local Users and Groups | Groups | DB2ADMNS or DB2USERS**.
- A Windows Power User or Restricted User does not have the authority to add or remove DB2 catalog entries using the Toad Client Configuration wizard. However, these users can use the Import Profile function in the Toad Client Configuration wizard to import catalog entries to Toad.
- To take full advantage of Toad for DB2 LUW functionality, the user ID specified in the Toad connection profile for each DB2 for LUW database connection requires the authorizations listed in the following document:

  ToadDB2LUWAuthorizations.xls

- As a minimum requirement to manage a DB2 for z/OS subsystem in Toad, the user ID defined in the Toad connection profile for the subsystem must either have SYSADM privileges or SELECT privileges on the DB2 catalog tables. For a complete list of authorizations (and corresponding GRANT statements) a user requires to take full advantage of Toad for DB2 z/OS functionality, refer to the following document:

  ToadDB2zOSAuthorizations.doc

- To create or modify the QuestSoftware.ToadSecurity table to enable Toad Security, the user who maintains this table must have privileges to create, insert, update, and delete it. All other users need only the ability to read the QuestSoftware.ToadSecurity table to use Toad Security features.
- For information about defining a RACF, Unix, or Linux group as a Toad Security role, see the *About Setting Up Toad Security* topic in the Toad online help. This topic explains how to add the Toad Security icons to

your toolbar and how to define Toad Security roles that apply to your current connection. (The ability to define RACF, Unix, and Linux groups as Toad Security roles works with DB2 for LUW 9 or later databases and DB2 for z/OS 8 or later subsystems.)

Resolved Issues

The following is a list of issues addressed and enhancements implemented in this release of Toad for IBM DB2:

Resolved issues in 8.0

Feature	Resolved Issue	Defect ID
Profiling option	The error `System.InvalidCastException: Specified cast is not valid` occurs when using the profiling option with a **SELECT** query.	TDB-4488
SQL script	The error `SQL0556N An attempt to revoke a privilege from EJS was denied because EJS does not hold this privilege` occurs when users execute the **Revoke All Privileges** SQL script to revoke all permissions for a specific user in an LUW database.	TDB-4154
Extract DDL	When performing an Extract DDL operation for the Z/OS database with the **Include Privileges** option specified, users cannot view the grants for roles returned in the DDL script. This issue also occurs when users select the "Generate SQL" or "Create Script" options.	TDB-4146
DDL for triggers	Users are unable to generate the DDL for triggers using the right-click option, the **Script** tab in the **Properties** view, or the **Compare Object** feature.	TDB-4142/TDB-3994
Multiple features	Users are facing the following issues after connecting to the DB2 database: • The **Catalog** functionality is not working when using the same password under the "Direct" function in Connection Properties. • The **Open Connections, Monitor Applications, Lock Waits,** and **Diagnostic Logs** tabs in the Dashboard menu are either not displaying proper data or showing as blank. • Users are unable to view data collection on the **Lock Waits, Monitor,** and **Diagnostic Logs** tabs. • Users are unable to browse sessions similarly to TFO. • The **Explorer**	**Schema**	**Database**	**Space Usage** option is not displaying space usage information.	TDB-4131
Stored procedure	Toad for DB2 fails to display the properties of a stored procedure when users press the **F4** key in the **Editor** where the stored procedure name is written.	TDB-4119
Review comparison report	Toad for DB2 cannot generate scripts based on the filters applied when executing queries on the **Review Comparison Report** page.	TDB-4118/TDB-4141
Application tab	The **Application** tab is not visible in Toad for DB2 version 7.4.	TDB-4112
Restrictive option	Toad for DB2 is generating a script with the restrictive option for a database that is configured as non-restrictive.	TDB-4108
Manage By	Toad for DB2 is displaying incorrect information for **Manage By** field in **Tablespace** view details window.	TDB-4030
Create Database scripts	The **Create Database** scripts for an LUW database, which fetch the storage groups for the creation or an already created database, are not retrieving the assigned database path.	TDB-4012

Feature	Resolved Issue	Defect ID
EditSchemaPrivileges	When connected to LUW version 11.5, the script generated for **EditSchemaPrivileges** incorrectly includes load-related scripts, resulting in errors during execution. Additionally, when attempting to create a user and assign a schema with all available privileges, the script fails to generate properly.	TDB-4010
Database Explorer	When users try to connect to a new DB2 LUW database connection, the **Database Explorer** does not open automatically in Toad for DB2 version 7.4.	TDB-4008
Expression-based index	When users create an expression-based index and compares the same object using Compare Object , the expression-based index does not appear in the script. As a result, users are unable to perform object comparisons with accurate results and copying the index to the target object.	TDB-3995
Collate Using	The **Collate Using** option in the **Script** tab of the database is not visible in the Toad for DB2 7.2 application.	TDB-3985
Execute Explain Plan	Toad for DB2 is displaying the `System.InvalidCastException` error when users execute the **Execute Explain Plan** SQL script to generate the Explain Plan for a set of tables, indexes, or functions.	TDB-3982/TDB-3983
Alter Database	Application does not display any fields/options on the **Alter Database** screen under the **Storage Path** option.	TDB-3965
CREATETAB grant	Toad for DB2 displays a duplicate entry of the **CREATETAB grant** in the **Role** tab when generating the Grant script for the Role functionality.	TDB-3963
Data grid	When click on the **Save As** button in data grid a popup window freezes.	TDB-3961

Known Issues

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

Feature	Description	Support Case/Defect ID
General	The **Explain Plan** screen is not displaying the results, when an SQL Query is executed in the **Editor** tab.	TDB-4003
General	Toad for DB2 displays an error when users try to create a new Like table from the **Object Explorer** pane.	TDB-4001
General	Application is not generating the script correctly for the **Alter Database** operation under the **SQL Script** tab.	TDB-4000
General	Toad for DB2 is not displaying any matching files when searched using the **Find and Replace** option.	TDB-3999
General	Toad for DB2 displays an error when users try to create a new table from the **Object Explorer** pane.	TDB-3997
General	Toad for DB2 displays an error when users try to import data using the **Excel Instance** option.	TDB-3980
SQL Script Generation	Toad for DB2 is not generating the script correctly while creating database constraints to retrieve data.	TDB-3979
General	Toad for DB2 displays an error even after entering the valid server details to test the connection using the FTP connection functionality. Also, system displays an inappropriate error message.	TDB-3976
Toad Intelligence Central	Application displays an error while registering a new user in Toad Intelligence Central.	TDB-3975
General	Toad for DB2 is not generating the application log while performing any operation.	TDB-3973
Script for Alter Table	Upon making any modifications in the existing columns of a table, application generates the updated SQL script in the comment form due to which users are not able to alter the tables.	TDB-3971
General	Application displays an error while opening the Spotlight application as an integrated Quest tool.	TDB-3969
General	Toad is not displaying the execution cancellation alert message every time users cancel/stop the execution.	TDB-3968
Export Connection	Since the **Save** button used while exporting connections is disabled, users are not able to export connections using the **Connection Manager** option.	TDB-3967
General	Toad displays an error while exporting a MS Excel linked query of an output.	TDB-3966
Object Details	When a DB2 object is created, DB2 implicitly creates authority for the user who created that object. In the system catalog tables those are shown as SYSIBM as the Grantor. When migration\compare\extended alter scripts are generated Toad does not generate GRANT statements in those scripts for authorizations granted by SYSIBM because those are granted implicit authorizations that have been created by DB2.	TDB-870

Debugger	You might encounter issues with initializing Unified Debugger sessions if the version of the DB2 for LUW server on which you are debugging is earlier than 10.1 fix pack 2.	N/A
	Workaround: If the DB2 server version is earlier than DB2 for LUW 10.1 fix pack 2, copy DB2DBGM.JAR from the Toad client installation to the following location on the server:	
	• DB2 instance home path/SQLLIB/JAR (Unix or AIX computer)	
	• DB2 instance home path\SQLLIB\JAR (Windows computer)	
	Notes:	
	If the DB2 server version is DB2 for 10.1 fix pack 2, use the JAR file supplied with your DB2 version. If replacing the JAR file as described in the workaround, make sure you back up the original JAR file on the server before replacing it with the one from the Toad client installation.	
Export Wizard/ One Click Export	Avoid using Excel for exporting if your data has numeric values that require a high precision because Excel's precision is limited to 15 digits. If you export numbers with more precision, the values are rounded. If you export boundary numbers (max, min), rounded numbers will exceed the data type limit.	N/A
Installation	Network and LAN installations are currently not supported.	N/A
	Toad uses hardcoded values instead of some variables such as %USERNAME% in several path names and therefore App-V environment is not supported.	TDB-1009/2297051-1
	For installation adhere to Windows Installer Best Practices, see here.	
Space Management	If running Toad for IBM DB2 6.0 or earlier in a pureScale environment and the QUEST.SH_SNAPSHOT procedure had been installed, the procedure will have to be redefined. Please, follow these steps:	N/A
	1. Drop procedure QUEST.SH_SNAPSHOT	
	2. Right click a tablespace	
	3. Select **Space Management | View Space History**	
	4. Click **Yes** when prompted to run the install script for the procedure	
	5. Execute the script	
SQL Editor	Toad does not handle DBMS_OUTPUT in the SQL Editor.	ST90710
z/OS Utilities	When using Utilities as the data preservation method and the length of a column tied to columns from other tables via RI is reduced. When executing the alter script the load fails with a DSNU334I INPUT FIELD INVALID error pointing to the altered column. The load cards show the old length for the altered column which appears to be the problem.	ST44753

Third Party Known Issues

The following is a list of third party issues known to exist at the time of release of Toad for IBM DB2 8.0.

Feature	Description	Support Case/Defect ID
DB2 Client	In case Toad and a 9.5, 9.7 or 10.1 DB2 client is installed on Windows 8 or Windows Server 2012 IBM setup recommendation #1618434 has to be applied.	N\A
Data Server Driver	Installer of Data Server Driver 10.5.4 and newer may need to be run with Administrator permissions.	TDB-2306
LUW Procedure Script Tab	After installing DB2 LUW v10.1.3, the script tab for LUW procedures is empty. This is due to an issue introduced by IBM in fixpack 3 regarding the NULLIF SQL function. IBM APAR IC96725 addresses this issue.	TDB-180/2303729-1
DB2 z/OS invalid Timestamp values returned	When the IBM DB2 Analytics Accelerator is used in conjunction with DB2 z/OS, along with an IBM DB2 .Net Data Provider v10.1.3, timestamp values returned from queries are invalid. Since Toad DB2 v5.6 uses the IBM DB2 v10.1.3 .Net Data provider, invalid timestamp values can be returned within Toad 5.6. IBM PMR 8862756 has been opened on this topic. Please consult that PMR for a work-around.	N\A
LUW Procedure Debugging	When the user is running DB2 Server 10.1.3 with a database that has been migrated from a previous release, the debugger will fail with a reference to SYSDEBUGPRIVATE. This occurs from an IBM bug in the db2updv10 update utility. IBM APAR IC96837 addresses this issue. This has been resolved in IBM DB2 10.1 FixPack 4.	TDB-708/2425004-1
Debugger	The Debugger may not advance to the next line under certain circumstances. Those circumstances include DECLARE statements with multiple variables defined on a single line and IF statements with multiple conditions defined on a single line. **Workaround**: In procedures that are to be debugged: The procedure text should be modified to separate DECLARE variables onto different lines and IF statements separated to have conditions on separate lines.	ST70691
	LUW: The following error message is displayed when you attempt to modify a watch value during a Debug session on a DB2 for LUW 9 database: "ERROR [57011] [IBM] [DB2/NT] SQL0954C Not enough storage is available in the application heap to process the statement. SQLSTATE=57011" The call to modify the watch value fails on DB2, and the server runs out of heap memory. **Workaround**: To avoid the heap memory issue, increase the application heap size on the server.	CR188846
Export Wizard/ One Click Export	To export to an Office 2003 or 2007 Excel instance, the Office Primary Interop Assemblies (PIAs) must be installed. You can install the PIAs from one of the following locations:	N/A

	• 2003 PIAs: http://www.microsoft.com/en-us/download/details.aspx?id=20923	
	• 2007 PIAs: http://www.microsoft.com/en-us/download/details.aspx?id=18346	
	Date formatting issues occur when exporting table data to an Excel file or instance. These issues seem to occur especially when exporting dates previous to 1900. **Workaround**: For better results, try exporting the data to a CSV file.	ST70817
Object Editor (DOE)	z/OS: Executing a procedure causes "Invalid SQL syntax" message when parameter listing has a new line character separating parameters. IBM has opened PMR 80539,756 to investigate this issue. **Workaround**: Remove the new line character and separate the parameters by the spaces.	ST87770

Getting Started

Contents of the Release Package

The Toad release package contains the following products:

1. Toad for IBM DB2 8.0
2. Product Documentation, including:
   - Installation Guide
   - Online Help
   - Release Notes

Installation Instructions

See the *Toad for IBM DB2 Installation Guide* for more information.

Toad for DB2 Editions

Each Toad for DB2 is packaged with additional Quest products to expand your experience. The following products may be part of your Toad for DB2 Edition:

Toad for DB2 8.0

Benchmark Factory

SQL Optimizer for IBM DB2 LUW

SQL Optimizer for IBM DB2 z/OS

Spotlight on IBM DB2 for LUW

Toad Data Modeler

Toad for IBM DB2 Subscription Editions

Toad for IBM DB2 is now available with subscription licensing. It offers the following editions based on the enabled license in the About, Licenses and Launch Splash windows.

Edition	Licensed
Toad for DB2 Base Subscription Edition	Toad for DB2 LUW Base Subscription Toad for DB2 z/OS Base Subscription Base features
Toad for DB2 Professional Subscription Edition	Toad for DB2 LUW Professional Subscription Toad for DB2 z/OS Professional Subscription Pro Features
Toad for DB2 Pro DB Admin Subscription Edition	Toad for DB2 LUW Pro DB Admin Subscription Toad for DB2 z/OS Pro DB Admin Subscription Pro Features + DB Admin Add-On Feature
Toad for DB2 Xpert Plus Subscription Edition	Toad for DB2 LUW Xpert Plus Subscription Toad for DB2 z/OS Xpert Plus Subscription Optimizer for DB2 for LUW Optimizer for DB2 for z/OS Xpert + Pro Features + DB Admin Add-On Feature

Toad for IBM DB2 Non-Subscription Editions

Toad for DB2 offers the following editions for Linux, Unix, and Windows (LUW) and z/OS:

Edition	Licensed
Toad for IBM DB2 Base Edition	Toad for IBM DB2 Base
Toad for IBM DB2 Professional Edition	Toad for IBM DB2 Professional
Toad for IBM DB2 Xpert Edition	Toad for IBM DB2 Professional SQL Optimizer for IBM® DB2® LUW SQL Optimizer for IBM® DB2® z/OS
Toad for IBM DB2 Developer Edition	Toad for IBM DB2 Professional SQL Optimizer for IBM® DB2® LUW SQL Optimizer for IBM® DB2® z/OS Benchmark Factory™—IBM DB2 Edition
Toad for IBM DB2 DBA Edition	Toad for IBM DB2 Professional SQL Optimizer for IBM® DB2® LUW Benchmark Factory™—IBM DB2 Edition

Edition	Licensed
	Spotlight™ on IBM® DB2® LUW
	Toad Data Modeler
Toad DB Admin Module	Toad DB Admin Module*

ℹ   NOTE: The DB Admin Module Add-on can be added to any edition of Toad.

ℹ   IMPORTANT: Your license key determines the edition and will enable Toad for DB2 functionality accordingly. In many cases, if functionality is disabled within Toad, you may not have an appropriate license to use it. When Toad is running, you can see which components are licensed by selecting **Help | About**.

Product Licensing

Legacy Toad for IBM DB2 with offline license keys

To activate a purchased commercial license:

1. In the Licensing dialog, enter your license (Authorization) key.
2. Enter the site message included with the license key.

Toad for IBM DB2 Subscription with online licensing (including Editions)

Toad for IBM DB2 Subscription requires you to sign in with your Quest.com account.

Licenses are tied to your account giving you the flexibility to use Toad from multiple computers without having to move your license.

Sign in with existing Quest.com account:

1. Enter your account email address and password when prompted.
2. If you already have a Toad for IBM DB2 Subscription license, no further action is needed.
3. If you do not have a Toad for IBM DB2 Subscription license, see Activating a new license below.

Create a new Quest.com account:

1. Select **Sign up for a new account**.
2. Enter your account details and select **Sign Up**.
3. A confirmation email is sent containing a verification code.
4. Enter the code from the email and select **Verify**.

NOTES:

- It may take a few minutes for the verification email to arrive
- Check your spam/junk folders for the email sent from supportadmin@quest.com if you do not receive it
- For additional assistance, please contact Quest support .

Activating a new license:

1. Toad for IBM DB2 Subscription automatically provides a fully functioning, 30-day Trial license.
2. To purchase a new license, click Buy Now from Toad's title bar.
3. After completing your transaction, restart Toad and your license is automatically detected.
4. To manage licenses, select Manage licenses online beneath your account shown at the top-right of Toad.

NOTE: You can view your licenses from within Toad by selecting Help | About

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.

This release has the following known capabilities or limitations: If the user overrides the default installation path during installation, the new path specification cannot contain Unicode characters.

** (This limitation applies ONLY to the Xpert edition of Toad for IBM DB2 for z/OS and to the DBA edition of Toad for IBM DB2 for LUW) SQL Optimizer for IBM DB2 z/OS and Toad Remote Script Execution (for IBM DB2 LUW or z/OS) support single-byte character sets only. These features do not support double-byte or multi-byte character sets. All IBM DB2 client and server installations should be configured to use the same or compatible character encodings and the same locale and regional options.

About Us

Quest creates software solutions that make the benefits of new technology real in an increasingly complex IT landscape. From database and systems management, to Active Directory and Office 365 management, and cyber security resilience, Quest helps customers solve their next IT challenge now. Around the globe, more than 130,000 companies and 95% of the Fortune 500 count on Quest to deliver proactive management and monitoring for the next enterprise initiative, find the next solution for complex Microsoft challenges and stay ahead of the next threat. Quest Software. Where next meets now. For more information, visit www.quest.com.

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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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