

# Toad® Data Modeler 7.0

## Release Notes

Tuesday, May 21, 2019

These release notes provide information about the Toad® Data Modeler release.

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## About Toad Data Modeler

Toad Data Modeler helps organizations create, maintain and document their database systems with an easy-to-use graphical interface into new or existing database structures. Toad Data Modeler enables users to reverse engineer database structures, update models, design and generate SQL, compare models and generate alter scripts, create HTML or RTF reports, in addition to versioning of database designs and creation of to-do lists.

Toad Data Modeler 7.0 is a major release, with new and enhanced features, and a fixed vulnerability of a third party component. See [New in Toad Data Modeler 7.0](#) and [Resolved issues](#) for more information.

Toad Data Modeler is released in 32-bit and 64-bit versions. The 64-bit version of the application has a significantly higher memory limit which should resolve several common issues incl. out of memory errors, which occurred when working with complex models.

However, in order to reverse engineer databases that require a client you need a corresponding version of the client, i.e. 32-bit or 64-bit.

# New in Toad Data Modeler 7.0

## General features

### Model Explorer

- It is now possible to use Ctrl + C to copy and Ctrl + V to paste in **Model Explorer**

### Support for Not Null value in IDEF1X notation

- Select IDEF1X in **View | Notation**
- Optional attributes that are not null and not part of a primary key are now displayed when IDEF1X notation is used

## Database features

### Support for Oracle 18c

- Support for **Reverse Engineering** from a SQL/DDDL file has been enhanced

### Support for MySQL 8.0

- MySQL 8.0 is now fully supported. Toad Data Modeler supports MySQL 8.0.13 and newer
- Database settings are placed in **Settings | Options | Model | Physical Model | MySQL | MySQL 8.0**
- **Reverse Engineering** from a database and SQL file, **Change Script**, and **DDL Script Generation** are supported
- Management of users and roles has been enhanced
- Design and layout of **Attribute properties** has been improved
- New verification tests have been added

### Support for Amazon Aurora PostgreSQL 9.5

- Support for **Reverse Engineering** from a SQL/DDDL file has been added

## Enhancements

### Logical Model

- It is now possible to add inheritance to a category

## Change Script Generation

- Minor enhancements for Change Script Generation of IBM DB2 LUW, GreenPlum, PostgreSQL, and MySQL have been implemented

## UI enhancements

- Look and feel of several dialogs have been improved

# Resolved issues

The following is a list of issues addressed in this release.

Resolved Issue	Issue ID
Freeware license is now hidden in case any valid commercial license is present	4962/4395012
A bug that disabled some TDM functions on any systems with Windows 10 update 1809 and newer has been fixed	4868
TDM now loads indexes with names in quotes correctly	4854
An access violation does not occur anymore when Change Script is run on an entity with a foreign attribute using the right-click menu	4866
Generating permissions by using AddUserRight now works correctly for entities, views, materialized views, procedures, and functions	4833
Primary Keys are now generated for MS SQL Server when only keys are selected in Selected OTPs for generator in SQL Server/Azure SQL Database	4845/4372452
"No parent item (key or index) has been found during foreign key creation." will now be displayed for the first time as message. All other occurrences will be logged	4572
Foreign Key generated inside SQL table statement is now shown in SQL preview	4153/4209860
Reverse Engineering, Reports, Change Script, and DDL generation were enhanced. It is now possible to select NULL value in Extended Property menu for MS SQL Server and Azure SQL Database V12	4096
DDL Script Generation for PostgreSQL using scripting has been fixed	4836/4371791
Crashing of Reverse Engineering for Oracle users with specific permissions missing has been fixed	5195
Changing font size in SQL tab of Function Properties is now possible	5259/4469649
It is now possible to ignore schema names during comparison of databases	95/4439430

# Known issues

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

Issue	Issue ID
Some authentication methods with Microsoft Azure SQL Database cannot currently be used with Toad Data Modeler	4570/4291011

# System requirements

Before installing Toad Data Modeler 7.0, ensure that your system meets the following minimum hardware and software requirements.

## System requirements

	Minimal Requirements	Optimal
Memory	1 GB	4 GB
Hard Disk Space	400 MB	1 GB
Operating System	Microsoft Windows 10 (64-bit) Microsoft Windows 8.1 PRO (64-bit) Microsoft Windows 8 PRO (64-bit) Microsoft Windows Server 2016 (64-bit) Microsoft Windows Server 2012 (64-bit) Microsoft Windows Server 2008 R2 (64-bit) Microsoft Windows 7 (32-bit or 64-bit) * *For Toad Data Modeler 64-bit version, only 64-bit version of the operating system can be used.	
Other Requirements	.NET 4.0 or later	

# Virtual appliances

Review the following information about using Toad Data Modeler in virtual environments:

Requirement	Details
Application	Toad Data Modeler has been tested for Citrix support on the Citrix XenApp 6.5.
Desktop (VDI)	Issues during printing using virtual printers - The problem occurs only in

Requirement	Details
	case of print from a local machine (all printers from local machine are visible on vWorkspace). If the virtual printer is installed on vWorkspace directly, the issue will not occur.
Server	Oracle VM 3.0 Toad Data Modeler has been tested with ESXi VMware 5.5.

Toad Data Modeler may work correctly in virtual environments other than the tested ones. In case of virtual servers, support for Toad Data Modeler is provided on the basis of supported operating systems.

## Cloud database services

Toad Data Modeler supports the following cloud-based database services:

- Oracle Database as a Service

## Upgrade and compatibility

It is not possible to open models created in Toad Data Modeler 7.0 in versions earlier than 6.0.

Version 5.2 introduced new system of relationship lines. Models created in version 5.1 and lower are automatically converted to the newer format. Backup your models prior to opening them in version 5.2 or higher.

Do not open and re-save models originally created in a higher version of Toad Data Modeler in a lower version of Toad Data Modeler.

## Supported database platforms

### Supported model types

- Logical
- Universal
- Physical

### Supported databases

- Amazon® Aurora MySQL 5.6
- Amazon® Aurora PostgreSQL 9.5
- Amazon® Redshift 1.0
- IBM® DB2® z/OS® 10, 11
- IBM® DB2® LUW 9.5, 9.7, 10.1, 10.5, 11.1
- Greenplum Database® 4.1, 4.2
- Ingres 9.3, 10.0
- EDB Postgres Advanced Server 10

- Microsoft® Access® 2007-2010
- Microsoft® Azure® SQL Database V12
- Microsoft® SQL Server® 2005, 2008, 2012, 2014, 2016, 2017
- MySQL 5.0, 5.1. 5.5, 5.6, 5.7, 8.0.13
- Oracle® 10g, 11g R1, 11g R2, 12c R1, 12c R2, 18c
- PostgreSQL 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 10
- SQLite 3.7
- SAP® SQL Anywhere 17
- SAP® ASE 16.0
- Sybase® ASE 15.5, 15.7
- Sybase® IQ 15.2
- Sybase® SQL Anywhere 11
- Teradata 13
- Vertica Database 8.0
- Other (Universal Model)

**i** | Note: For more information about the level of support please see **Help**, section **Introduction | Supported Databases**.

## Product licensing

### *To activate a purchased commercial license*

1. Open Toad Data Modeler.
2. Select **Help | Licensing**.

## Getting started with Toad Data Modeler 7.0

## Upgrade and installation instructions

The Toad Data Modeler release package contains the following products:

- Installation file of Toad Data Modeler (MSI)
- Product Documentation, including:
  - Release Notes (PDF)
  - Installation Guide (PDF)

### Installation Instructions

Refer to Toad Data Modeler [Installation Guide](#) for installation instructions.

## Additional resources

If applicable, point to related references, provide a list of corresponding documents, videos, or identify the community where additional information can be obtained. Otherwise, delete this section.

Additional information is available from the following:

- [Online product documentation](#)
- [Toad World community](#)

## 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.

The release is localized to the following languages: Chinese (Simplified), Chinese (Traditional), Czech, Hebrew, Italian, Portuguese (Brazil), Russian, Spanish.

This release has the following known capabilities or limitations: Localized support for HTML and RTF/PDF reports in several languages will be distributed via TDM Community.

Available dictionaries: Chinese (Simplified and Traditional), Czech, Hebrew, Hindi, Punjabi, Russian, Spanish, Brazilian Portuguese and Italian

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