A background network diagram consisting of a grid of thin, light green lines. Various circular nodes of different sizes and shades of green are scattered across the grid, connected by the lines, creating a complex web-like structure.

Data Guru and Demand Guru

Release Notes

Version 2020.03

March 26, 2020

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Contents

- Preface** 4
 - Related Documentation** 4
 - Customer Support** 4
- Data Guru 2020.03** 5
 - What's new** 5
 - Resolved issues** 5
 - Known issues** 7
- Demand Guru 2020.03** 12
 - Resolved issue** 12
 - Known issues** 12
- Installing the products** 14
 - System Requirements** 14
 - File Locations** 18
 - Installation Steps** 20
 - Installation Troubleshooting** 26

Preface

Welcome to the Data Guru 2020.03 and Demand Guru 2020.03 Release Notes. Please read through this entire document to ensure you have a full understanding of the installation procedure, as well as known issues within the application.

Related Documentation

In addition to these release notes, documentation for Data Guru and Demand Guru includes the following:

- [Data Guru Help](#)
- [Demand Guru Help](#)
- [Data Cube Reference Guide](#), a Microsoft Excel (xlsx) file

Customer Support

Data Guru and Demand Guru users have access to help.llamasoft.com, which acts as a gateway to a vast array of resources, data, tools, and knowledge.

Data Guru 2020.03

What's new

The following new features and improvements can be found in this version. Additional information on these items can be found in the [Data Guru Help](#).

New Platform Table Import Action

This action allows you to download a user-defined SQL Server database table from the llama.ai platform and import the table into Data Guru for further processing. You must establish a [Supply Chain Guru Cloud connection](#) prior to creating or executing this action, and the connection must include an API key provided by LLamasoft. You can specify the connection URL and API key directly in the connection itself, or you can opt to use a URL and API key specified in the [User Preferences settings](#) for the SupplyChainGuruX.US connection.

Note

You cannot use this action to import models.

For more information, see [Import Platform Table](#)

Resolved issues

The following issues have been resolved in this release.

Data Profiling action - Blank or null records properly logged regardless of type

A problem in which the **Blank** and/or **Null** columns in the action's Table Statistics output table were not being populated if the data type was DateTime has been corrected.

Excel Spreadsheet Export action - Execution working properly when new worksheet is "sheet1"

A problem preventing the Excel Spreadsheet Export action from executing successfully when **Create/Overwrite Excel File** was selected and **sheet1** (lowercase) specified as the **Worksheet** name has been corrected.

Expression Editor - right-click method for changing data type on typed bean restored

The right-click method used to change the data type in a typed bean from within the Expression Editor is now working properly. This correction applies to any action that includes the Expression Editor and allows typed beans, such as Update, Conditional Update, etc.

TDE File Export action - StringA data type values properly translated

A problem in which the values of fields with a data type of StringA were being truncated to a single character during execution of the export action has been corrected, and values are now translated to their proper StringU format.

Import Table From SCG Model action - Data definition handling errors resolved

Two problems have been corrected:

- Execution errors encountered for certain tables such as Customer Summary, Customer Flows, and Production Process Flows.
- Configuration errors encountered when tables include columns of data type Int64.

Known issues

The following issues are noted for this release.

Incorrect default URL in user preferences for cloud platform connection

In User Preferences, the default connection settings for the new llama.ai cloud platform can be found in the Connections choice labeled SupplyChainGuruX.us. Currently, upgrading Data Guru to the 2020.03 release does not update the value in the **URL** field – it is still set to **llamasoft3d.us** and must be changed to point to the new URL.

Workaround: You can either edit the **URL** value manually, replacing the **llamasoft3d.us** portion with **us.llama.ai**, or click **Reset** on the User Preferences window.

Platform Table Import action -

Limit on number of characters allowed in input and output names

While the number of characters allowed for database names in llama.ai is 255 characters, the number of characters in the input **Dataset Name** or **Collection Name** fields cannot exceed 64.

Similarly, the number of characters in the output **Table Name** field cannot exceed 128.

Limits on dataset and collection names

Currently, only letters, numbers, and underscores can be used in a dataset or collection name. Additionally:

- a number cannot be used as the first character
- spaces cannot be used

Execution will fail if any of these conditions are not met.

Limit on column names

Currently, spaces cannot be used in the column names of a collection. If a space is detected, the execution will fail.

Add Auto-Increment Primary Key option not working properly

If the **Add Auto-Increment Primary Key** option is selected, the action will execute; however, the option will not be used.

Known issues carried over from previous Data Guru releases

Aggregation action - cannot map computed field containing function to multiple destination fields

The Aggregation action returns an execution error when configured with a computed field that contains a function and is mapped to two or more destination fields.

Workaround: To execute the action successfully, remove the function from the computed field or ensure that the computed field is mapped to only one destination field.

SAP BEx Import action - performance degradation during configuration when selecting large number of characteristics and sub-characteristics

This issue has occurred as the result of a change made to check for duplicate characteristic names causing execution errors.

Table data view - sorting table results in inaccurate 'Records in Table' count

When the **Grid Maximum** is set to a number less than the number of actual records in the table, and a sort is applied, the **Records in Table** count is incorrectly set to match the **Grid Maximum**.

Workaround: Set the **Grid Maximum** to **0**, which will display the correct count.

Update action - Error when updating a new field by renaming it to match an existing field

Workaround: Click **OK** when the error displays, and then execute the action. It should execute successfully, and the field should update with the correct value.

Table Union action - Info hover on radial menu not scrollable

If you configure this action with a large number of tables, the table names may not all be visible in the list.

Pie charts percentage sum may be slightly larger than 100%

Within the pivot table/chart feature, the percentages that appear in pie charts may sum to slightly more than 100% due to rounding issues.

Distance Calculation action - yellow beans not displayed for missing lookup fields

When you configure this action to point to a lookup table in the configuration, and one of the columns from the lookup table is deleted (for example, using the Delete Column action), attempting to execute this action fails.

Run SSIS Package action - failure after replacing a package parameter with a project parameter

If you replace a package parameter in this action with a project parameter, attempting to execute the action fails.

Upload/Solve SCG Model Export

When the action is configured with a SupplyChainGuruX.com connection and both **Upload** and **Solve** are selected, only the Baseline scenario will be run.

Demand Guru Clustering action limitations

This action does not reflect additions, deletions, or updates to the **Cluster Definition** list unless the action is opened.

Configuring the action to run a cluster definition with a period (.) in the cluster definition's name results in the following execution error:

Action failed to prepare: The specified schema name either does not exist or you do not have permission to use it.

Data table view limitations

For data displayed, if the **Data Table View Row Limit** is set to a value which is less than the total number of rows in the target table:

- You are shown an incomplete set of records
- You are shown an incomplete set of distinct values to filter on
- If you apply a filter, you are filtering the incomplete record set instead of retrieving a new set of records based on the filter

For value filters:

- When you click the filter button for a column, you are shown a list of the first 1000 distinct values for the column.

- If more than 1000 distinct values exist, you do not see the other possible values, which can be misleading.

SQL Import action using Oracle omits warning when truncating decimal values

In a SQL Import action that uses an Oracle database, when a decimal value is truncated, the execution status incorrectly reports **Complete** instead of **Complete with Warning**.

Text Parsing action execution fails when SAP HANA table has no key/auto-id field

The Text Parsing action requires the Target table to have a unique key to preserve data integrity when updating rows.

You must create the table with a key or auto-increment field specified, or manually add the key or auto-increment in a SQL Operation transform.

Demand Guru 2020.03

Resolved issue

The following issue has been resolved in this release.

Time Series Only generation - Execution failure addressed

A specific execution failure that occurred due to special characters in time series names has been corrected.

Known issues

There are no known issues for this release.

Known issues carried over from previous Demand Guru release

Workbench - Time Bucket value reverts to Day if no time series generated

On the workbench Definition tab, the **Time Bucket** value you select is not persisted if no time series are generated, and the value reverts back to **Day**.

Application title and default mode when opening project

When you open a project after launching Demand Guru in the previous project, and then close the project without exiting the application, the application title and default mode will be Demand Guru.

Demand Modeling tab: Clustering Definition not reset to 'None' when previously selected definition is deleted

When no other cluster definitions have been generated, **Automatic** is selected and nothing displays within the Demand Modeling tab, since clusters have not been generated for this definition. When more than one cluster definition has been generated, the first generated cluster definition is selected on the Demand Modeling tab.

Installing the products

This section provides all the information needed for successful installation of Data Guru and Demand Guru, which are both 64-bit applications.

System Requirements

Minimum Requirements

Data Guru and Demand Guru can run on most modern desktop and laptop machines with few system limitations. Additional system performance allows for faster processing of larger data sets. These applications can be run on a machine with the following minimum specifications:

- 2.6 GHz Intel i5
- 4 GB RAM
- 100 GB disk space free (1 GB for installation)
- 1024X768 screen resolution
- Supported Microsoft Windows Environments
 - Windows 7 (64-bit)
 - Windows 8 (64-bit)
 - Windows 10 (64-bit)
- Internet connectivity required for certain functionality

While these are the absolute minimum requirements to install and run Data Guru and Demand Guru, it is strongly recommended that you use more advanced systems.

Data Guru allows users to transform their data on a cloud or local server. If the data transformation process is going to happen on the local client machine, hardware specs should be increased. A solid state hard drive and increased memory are strongly recommended.

Recommended System Specifications

Component	Basic Client	Standard Client	Low End Server	Standard Server	High Performance Server
Purpose	User client machine for day-to-day work		Dedicated data server to be accessed by client machine		
Data (GB) *	4 or Less	6-10	10-30	30-60	75 or greater
CPU	Intel I7	Intel I7	Single Xeon processor	Single Xeon processor	Dual Xeon Processor
Memory (GB)	6	8	32	64	128 or greater
Hard Drive	500 GB HDD	240 GB SSD	RAID Array	RAID Array	SAN/SSD RAID Array
DBMS	SQL Express	SQL Standard	SQL Standard	SQL Enterprise	
OS	Win 7 or 8 (64-Bit)	Windows Server 2008 / 2012			

* The relative size of the database on the client machine which is supporting the data transformation process.

Prerequisite Software

The following software is required and installed if necessary:

- R-Install3.3.2
- Microsoft Visual C++ 2013 Redistributable Package (x64)
- Microsoft Visual C++ 2013 Redistributable Package (x86)
- Microsoft Visual C++ 2010 SP1 Redistributable Package (x64)
- Microsoft .NET Framework 4.7.1 Full
- Microsoft SQL Server 2016 Express RTM LocalDB (x64)

You can use a variety of database systems. This install provides a copy of SQL Server LocalDB that can be used with the Data Guru and Demand Guru applications.

SQL Server Permissions

If your workspace database is on a SQL Server instance that is not a SQL Server LocalDB or SQL Server Express instance, then the following permissions are needed for the workspace database:

- **db_ddladmin**
- **db_owner**

New SAP Connections

Beginning with Data Guru release 2019.09, when new SAP connections are created, the RFC Library for communicating with SAP defaults to NetWeaver (sapnwrfc.dll) instead of the Classic librfc32.dll used in previous releases.

To use the NetWeaver option, you must make the SAP communication modules available on your desktop. Usually you must obtain these modules from your SAP administrator.

- The 32-bit and 64-bit sapnwrfc.dll (and related modules) can be downloaded (usually by your SAP administrator) as part of the NW RFC SDK from the SAP support portal (see SAP note 2573790). The following modules are required:
- sapnwrfc.dll
- icuucXX.dll
- icudtXX.dll
- icuinXX.dll

Note that **XX** represents the version of the NW rfc library. For example, for **NW750**, **XX** is actually **50**.

The following are two options you can use to make these modules available on your desktop:

- **Install in the System folder**
 - Copy the **64-bit** versions of the modules to the **<WindowsDir>\System32** folder (typically C:\Windows\System32)
 - Copy the **32-bit** versions of the modules to the **<WindowsDir>\SysWOW64** folder (typically C:\Windows\SysWOW64)

- **Install in a non-System folder**

The instructions that follow are excerpted from [HERE](#) -

- You must choose the appropriate 32-bit or 64-bit architecture version of the NW RFC SDK for your environment; typically, this is 64-bit with Data Guru.

- Unzip the NW RFC SDK archive into a directory of your choice, and then add the subdirectory **lib** of the SDK to the operating system's library path environment variable. In Windows, this is named **PATH**.

File Locations

Several file locations are used by the Data Guru and Demand Guru applications. These are created for each application during installation and include the following:

- [Application installation folders](#)
- [Application data folder](#)
- [User project folders](#)
- [User configuration data folder](#)

Each product (Data Guru and Demand Guru) has its own copy of each directory path. The path that gets is used is determined based on which application you open first in a single worksession. Once you open the application for a product, that same folder is used for the duration of the session, even if you toggle between applications.

Application installation folders

During installation, Data Guru and Demand Guru application installation files are placed under the appropriate Program Files folder on the system drive:

- C:\Program Files\LLamasoft\DataGuru
- C:\Program Files\LLamasoft\DemandGuru

Application Data Folder

Data Guru and Demand Guru each use a folder common to all users of their respective application:

- C:\ProgramData\LLamasoft\DataGuru\Diagnostics
- C:\ProgramData\LLamasoft\DemandGuru\Diagnostics

Currently, this folder is used solely to store the Diagnostics sub-folder for the application's diagnostic output, which is written to a file that is named using the format **dg-YYYYMMDD.json** (for example, dg-20190130.json).

The application writes to this file when it encounters an unexpected condition or when an internal program exception occurs. Currently, you must send this file manually to LLamasoft if you require assistance in resolving a program error. Later application versions may automatically send this file to LLamasoft as errors occur. The file is formatted in JSON and can be programmatically parsed.

Note

This file contains only error information; trace information is not included. Whenever this file has contents, it is of interest to the development team for quality purposes.

In the future, additional data common to all users of the application will reside in the Application Data folder.

User project folders

During initial start-up, a set of user project folders are created, which by default are placed in one of the following locations depending on the application being opened:

- C:\Users\current.user\Documents\LLamasoft\DataGuru\Projects
- C:\Users\current.user\Documents\LLamasoft\DemandGuru\Projects

These locations are always offered when creating a new project; however, you can override the default and select another location.

User configuration data folder

Application configuration information for each application is stored in the user.config file located in the application's AppData\Local folder of the current user:

- C:\Users\\AppData\Local\LLamasoft\DataGuru
- C:\Users\\AppData\Local\LLamasoft\DemandGuru

Typical user configuration information includes the most-recently-used lists for projects and last accessed folder locations. This information is independent of projects.

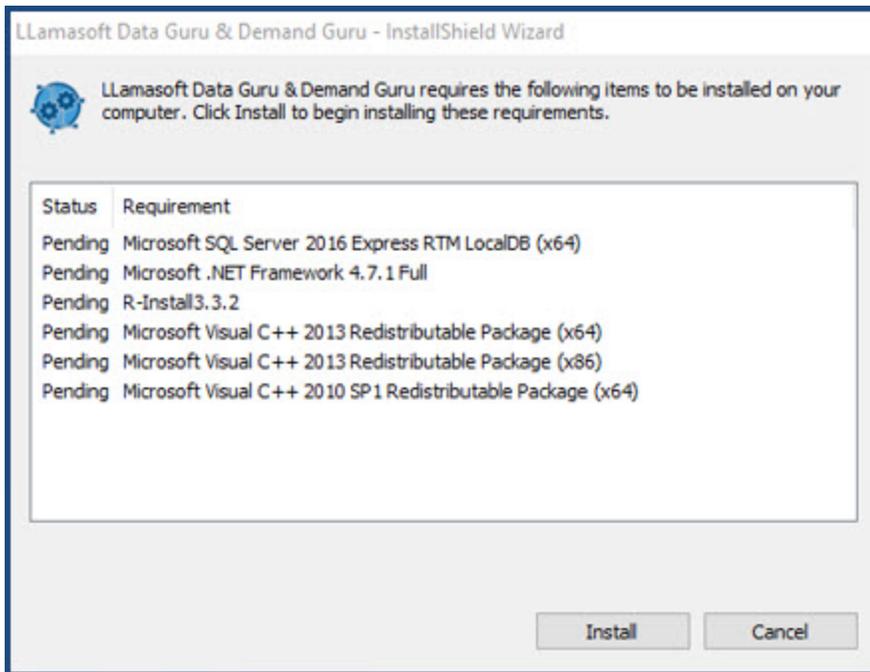
Note

The AppData folder is a hidden folder. You must disable the Hidden attribute on this folder to view its contents.

Installation Steps

1. Download the installation file **DGuru.exe** from support.llamasoft.com.
2. Run **Data Guru and Demand Guru 64.exe** as an administrator.
3. If prompted to allow the installer to execute, click **Yes**.

The installer first checks to see whether any required items must first be installed before beginning the Data Guru and Demand Guru installation. If any missing items are detected, they are listed as in the following example.



4. Click **Install** to install the required items. Note that you may be prompted by a User Account Control screen to allow the items to be installed. After providing confirmation, it can take several minutes as the items are installed, and a series of screens display indicating the status of each item during this process.

During this part of the installation, you can optionally install Microsoft SQL Server 2016 Express RTM LocalDB (x64). We recommend that you select **Yes** when prompted if you do not already have a database installed.

Important

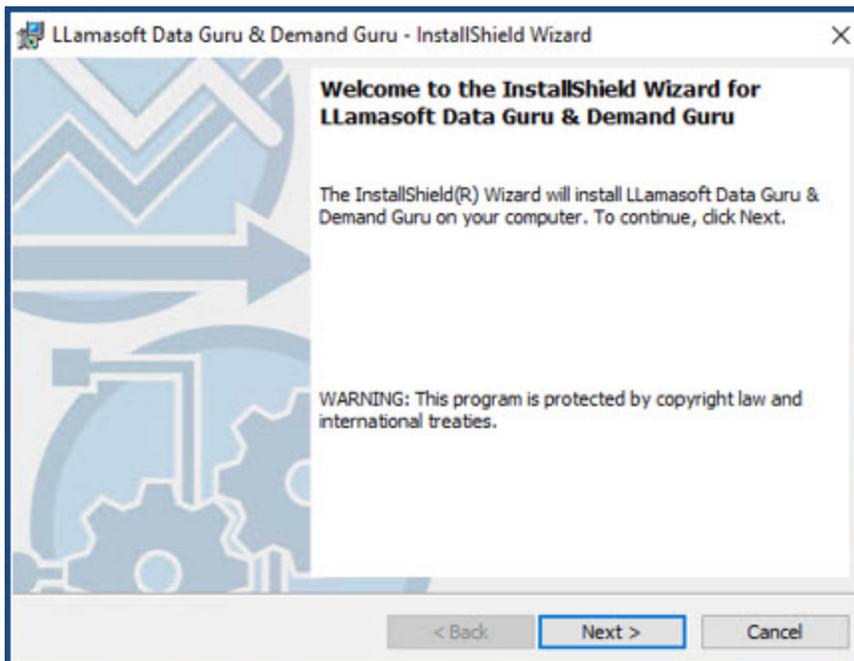
If one of the prerequisite items being installed is Microsoft .NET Framework 4.7.1, you may receive a message that the installation of .NET Framework 4.7.1 failed, with a prompt to continue.

* We recommend that you select **Yes** to continue with the installation; after the other components are installed, you are prompted to reboot.

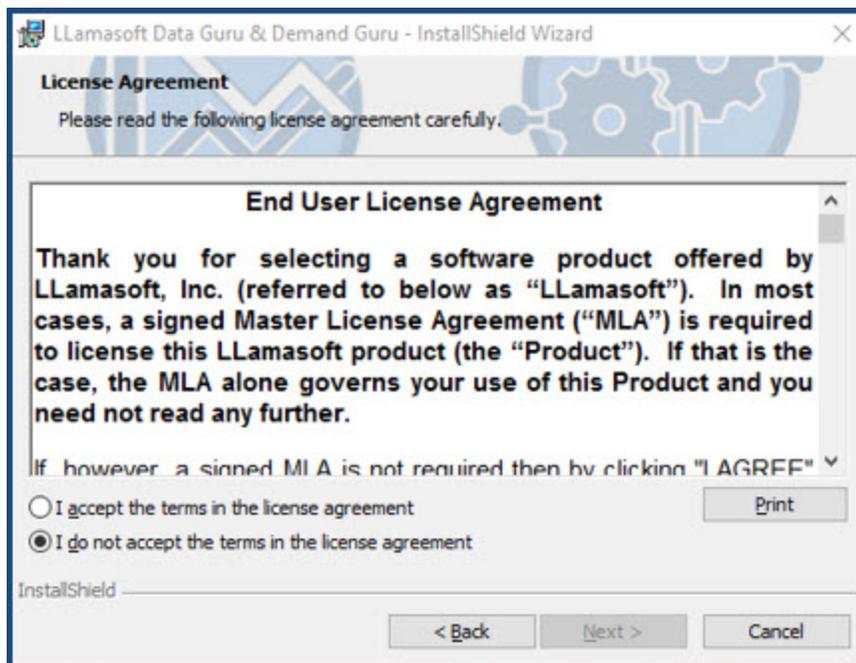
* If you select **No**, you should manually reboot at this point (even though

there is no prompt to do so), and restart the installer as an Administrator. If you do not reboot before restarting the installer as an administrator, the .NET installation is not recognized, and you must start the installation from the beginning.

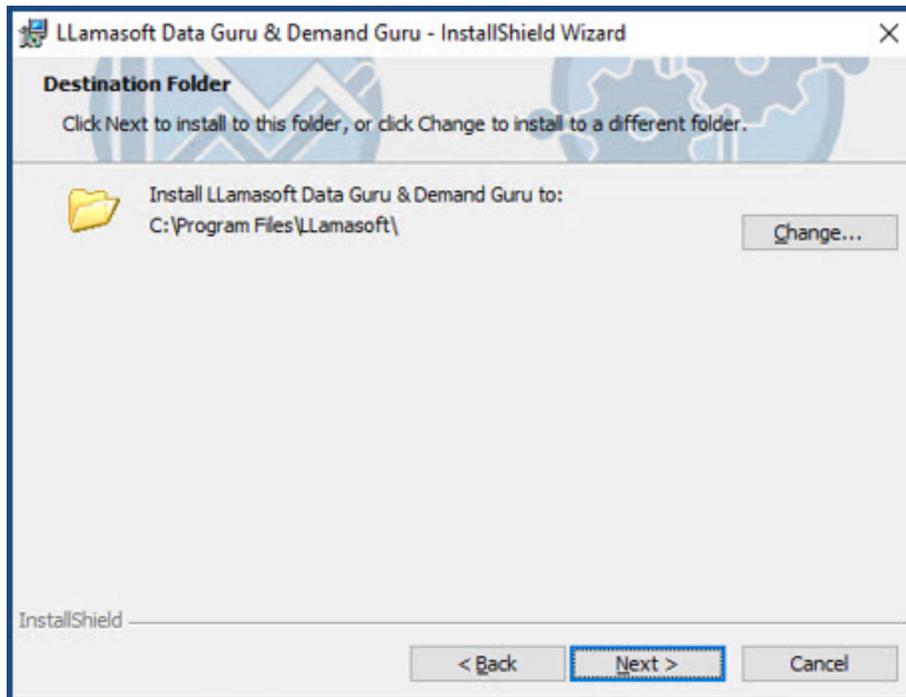
Once all the prerequisite items are installed, the InstallShield Welcome screen for Data Guru and Demand Guru displays.



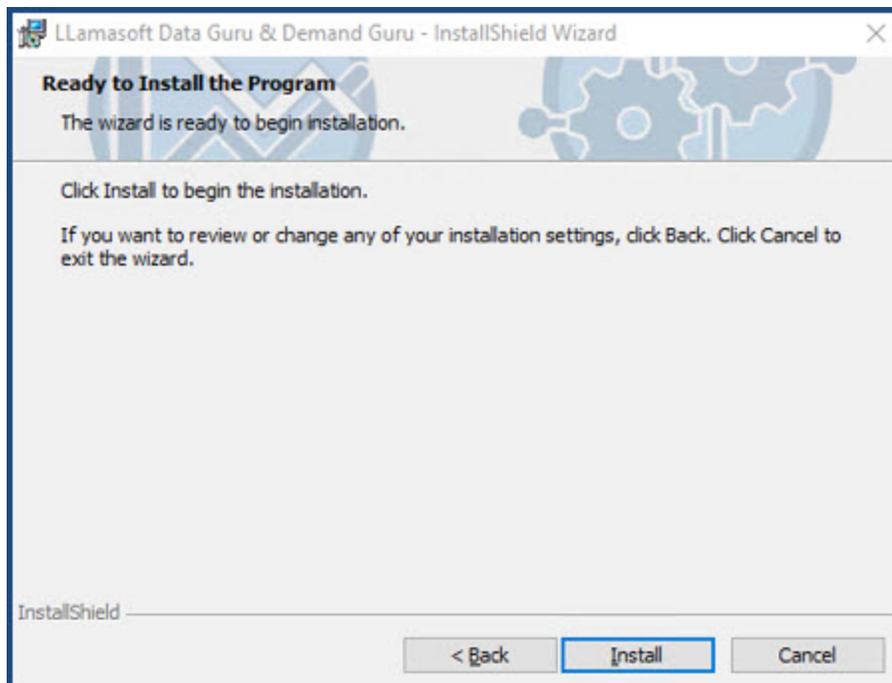
5. Click **Next** to display the License Agreement, and indicate your acceptance of the license terms.



6. Click **Next**.
7. Review the statement describing information LLamasoft collects about how the applications are used and how to disable this feature if desired, and click **Next**.
8. When prompted to choose a destination location for the installed files, accept the default location, or click **Change** to choose an alternative location. However, you should only install Data Guru on your C: drive.



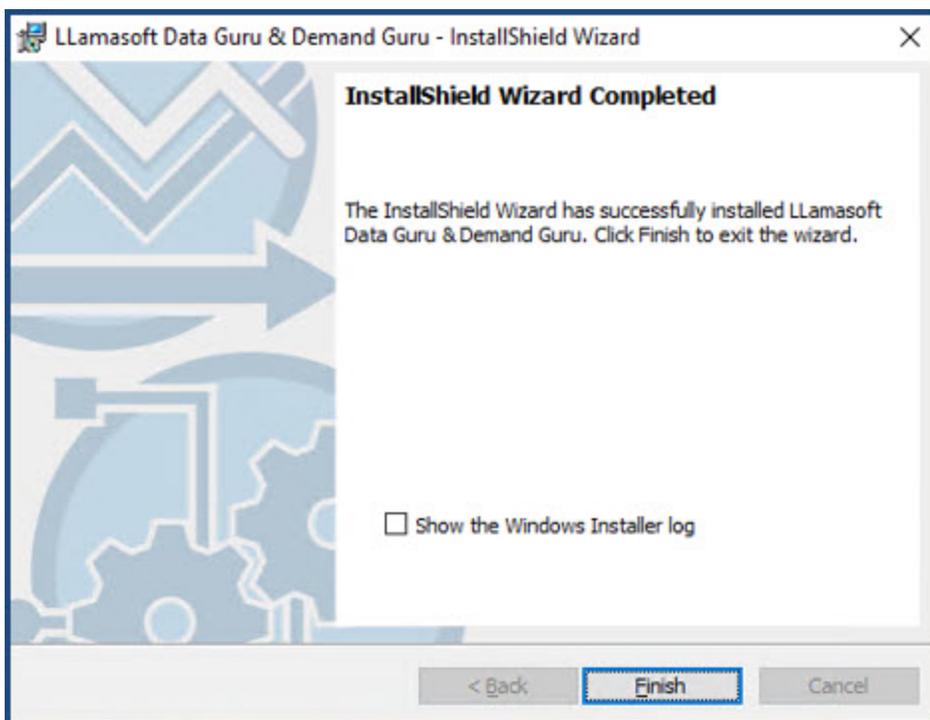
9. Click **Next** to display the Ready to Install... screen, and then click **Install**.



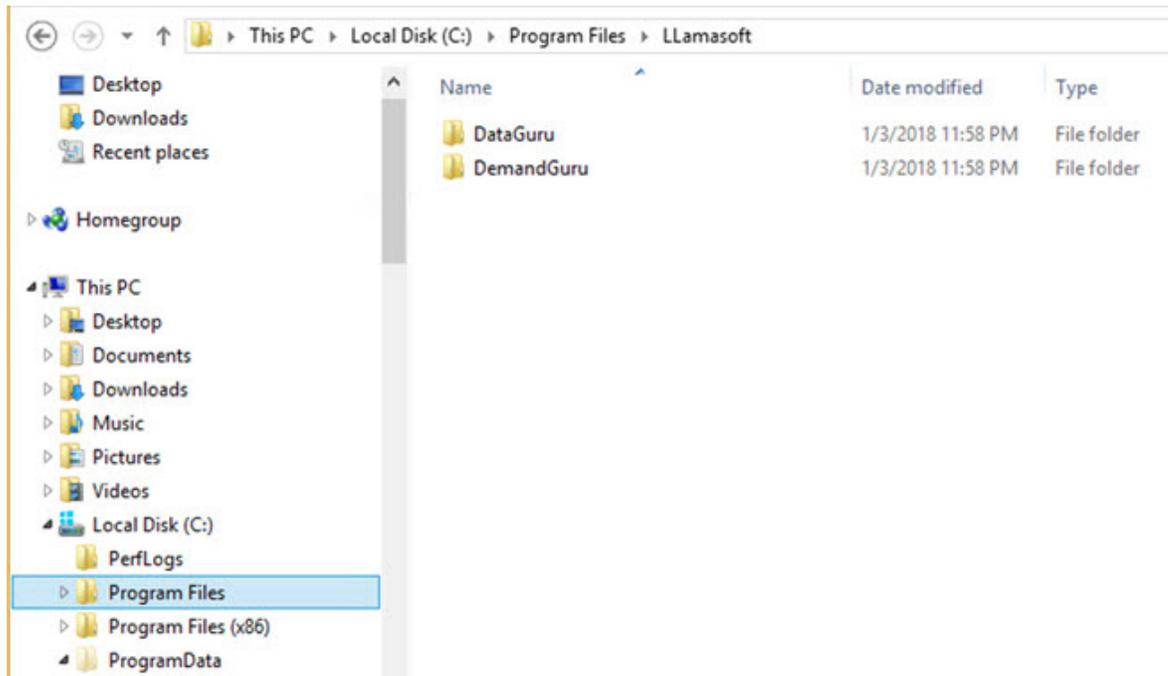
- At this point, if a User Account Control screen again prompts you for permission to make changes to your computer, click **Yes**.

Otherwise, the install begins. A progress bar indicates the status and, during this time, the R packages are also installed into C:\Program Files\LLamasoft\DataGuru\win-library\3.3.

- When the installation has completed, indicate whether you want to see the Windows Installer log, and click **Finish** to exit the InstallShield Wizard.



The application is now installed as shown:



Installation Troubleshooting

Data Guru 64-bit mode cannot use 32-bit drivers

This includes 32-bit Microsoft Office and 32-bit Access drivers that are installed after 64-bit Microsoft Office is installed.

Data Guru runs as a **x64** application and cannot use the **x86** (32-bit) version of the Access database driver. Because Data Guru is not able to use the Access database, it displays a warning that the x64 Access driver cannot be found.

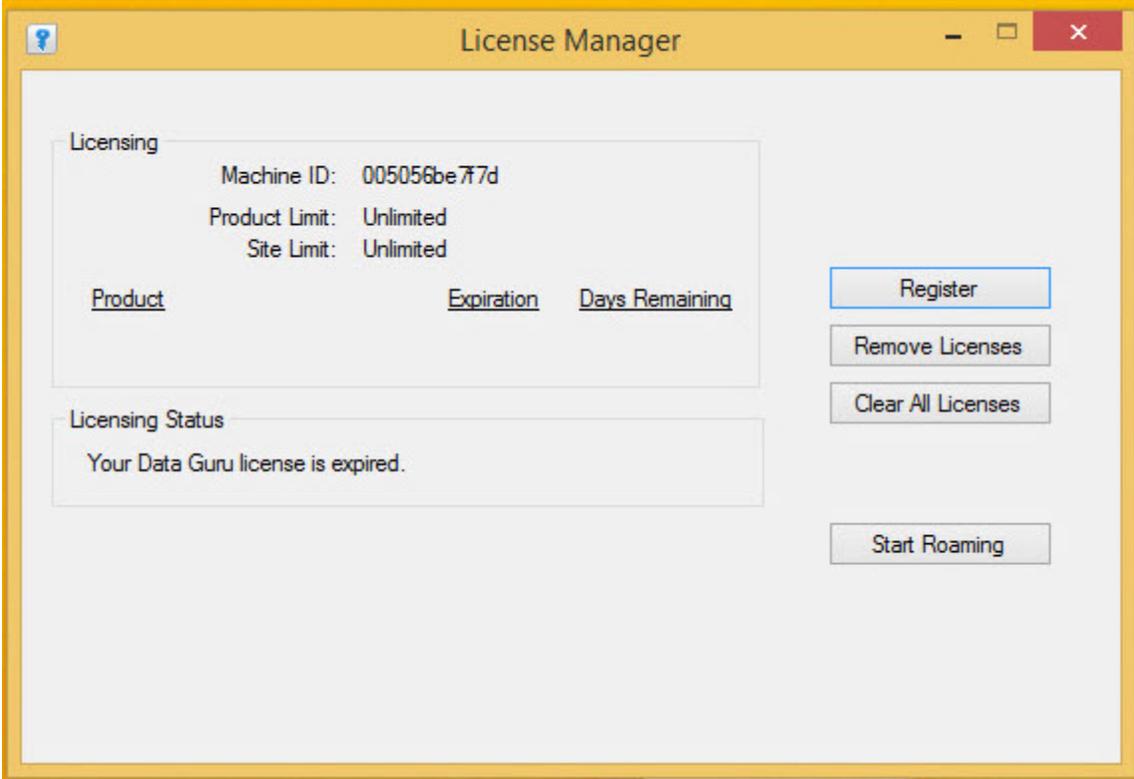
A similar warning is issued by Data Guru for 32-bit ODBC drivers.

Invalid or Expired License Message on Startup

When starting Data Guru, the following message is displayed if a valid license is not found or if an expired license is found:



Should this occur, click **OK** to open the License Manager.



On the License Manager screen, click the **Register** button and supply a valid license file.