

# **gConnectionManager**

## **Connection String Editor**

**Version 3.0.3, January 25, 2017**

**User's Manual**

# Table of Content

Table of Content	2
Getting Started	3
Getting Started	3
Change History	4
System Requirements	5
End-User License Agreement	6
Using gConnectionManager	8
Using gConnectionManager	8
Integration with Other Products	8
User Interface	9
Menu File	9
Menu Edit in Regular Mode	9
Menu Edit in Cell Edit Mode	10
Menu Help	10
Field Protection	10
Table Fields	10
Connection Wizard	11
Command Line	13
Parameter Input File	13
Option HelpFile	13
Option RunAs	13
Configuration File	13
Connecting to Microsoft SQL Server	14
Selecting Provider	14
Connecting to Database	15
Connecting to Microsoft SQL Server Compact	18
Selecting Provider	18
Connecting to Microsoft SQL Server Compact Database File	18
Creating Microsoft SQL Server Compact Database	19
Connecting to MySQL and MariaDB	20
Selecting Provider	20
Connecting to Database	21
Connecting to Oracle Database	22
Selecting Provider	22
Connecting to Database	23
Connecting to IBM DB2	25
Selecting Provider	25
Connecting to Database	26
Connecting to NuoDB	27
Selecting Provider	27
Connecting to Database	28
Connecting to PostgreSQL	29
Selecting Provider	29
Connecting to Database	30
Connecting to SQLite	31
Selecting Provider	31
Connecting to SQLite Database File	32
Creating SQLite Database	32
Technical Support	33
Technical Support	33
Frequently Asked Questions	33

## Getting Started

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gConnectionManager allows editing database connection strings in application configuration files.

Highlighted features of gConnectionManager:

1. gConnectionManager is easy-to-use for end users that are not developers or administrators.
2. gConnectionManager allows protecting connection strings using Windows cryptographic providers.
3. The connection wizard allows connecting to databases in visual mode.
4. You may copy and paste connection strings.
5. You may temporary disable connection strings. Such strings are moved to the disabledConnectionStrings section.
6. gConnectionManager can be used by other products as a connection string editor.

gConnectionManager supports the following database platforms:

- Windows Azure SQL Database
- Microsoft SQL Server
- Microsoft SQL Server Compact
- Oracle Database
- IBM DB2
- Oracle MySQL
- SkySQL MariaDB
- NuoDB
- PostgreSQL
- SQLite

You may start learning about gConnectionManager on the following topics:

- [Using gConnectionManager](#)
- [User Interface](#)
- [Command Line](#)
- [Configuration File](#)
- [Frequently Asked Questions](#)

## Change History

---

Legend:

- [+] Added Feature
- [-] Fixed Bug
- [\*] Improved/changed feature

### **Version 3.0.3, January 25, 2017**

- [-] Fixed issues with creating SQLite databases.

### **Version 3.0, January 17, 2017**

- [+] SQLite support.

### **Version 2.2, June 21, 2016**

- [+] You may change expired passwords for Microsoft SQL Server databases.

### **Version 2.1, January 25, 2016**

- [-] Fixed issues with Microsoft SQL Server 2000.

### **Version 2.0, December 23, 2015**

- [+] Connection string advanced properties.
- [\*] Updated provider for PostgreSQL.
- [\*] Updated provider for MySQL.

# System Requirements

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## **Supported Architectures:**

- x86
- x64

## **Supported Operating Systems:**

- Windows XP SP3, Vista SP1, 7, 8, 8.1, 10
- Windows Server 2003 SP3, 2008, 2008 R2, 2012, 2012 R2, 2016

## **Supported Versions of Microsoft SQL Server:**

- Microsoft SQL Server 2005, 2008, 2008 R2
- Microsoft SQL Server 2012, 2014, 2016 including Express LocalDB
- Microsoft Azure SQL Database

## **Supported Versions of Microsoft SQL Server Compact:**

- Microsoft SQL Server Compact 3.5, 4.0

## **Supported Versions of Oracle Database:**

- Oracle Database 10g Release 1, Release 2
- Oracle Database 11g Release 1, Release 2
- Oracle Database 12c Release 1

## **Supported Versions of IBM DB2:**

- IBM DB2 9.5, 9.7, 9.8, 10.1, 10.5, 11.1

IBM DB2 .NET Provider, IBM DB2 OLE DB Provider or IBM DB2 ODBC driver installed is required.

## **Supported Versions of MySQL:**

- MySQL 5.0, 5.1, 5.2, 5.5, 5.6, 5.7

## **Supported Versions of SkySQL MariaDB:**

- MariaDB 5.1, 5.2, 5.3, 5.5, 10.0, 10.1, 10.2

## **Supported Versions of NuoDB:**

- NuoDB 2.0.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6

## **Supported Versions of PostgreSQL:**

- PostgreSQL 8.0, 8.1, 8.2, 8.3, 8.4, 9.0, 9.1, 9.2, 9.3, 9.4

## **Supported Versions of SQLite:**

- SQLite Version 2, 3

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## Using gConnectionManager

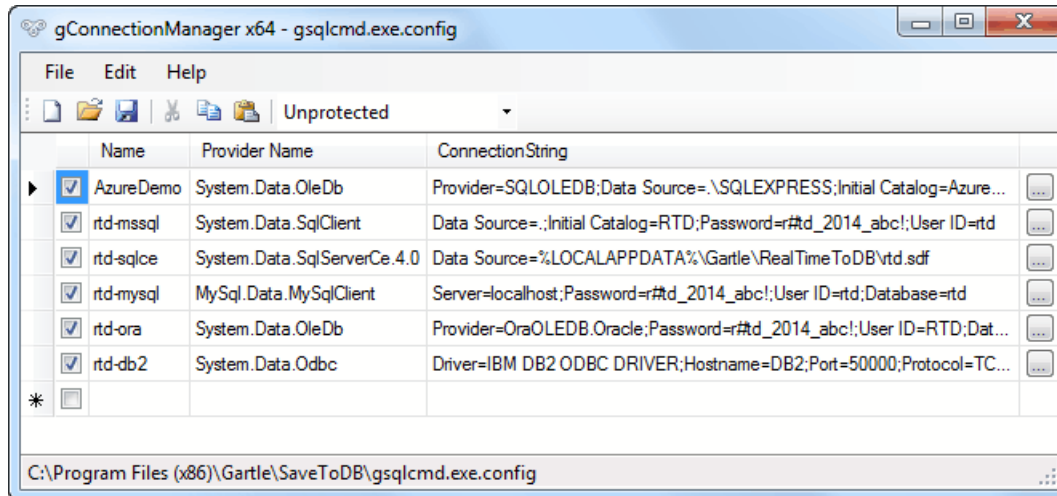
gConnectionManager allows creating and editing connection strings in application configuration files.

gConnectionManager supports the following operations with the connection strings:

- Creating
- Editing
- Deleting
- Copying and pasting
- Enabling and disabling

You may edit connection strings directly in table cells. You may click the "..." button to start the [Connection Wizard](#).

Here is an example of the gsqlcmd.exe.config configuration file:



gConnectionManager edits a single configuration file.

You may start multiple copies of gConnectionManager to edit multiple configuration files at the same time.

You may copy the strings between the opened connection managers.

Click the **Save** button to save the changes.

Click the **File, Reopen** menu item to reopen the file and discard all the changes.

See the following topics about user interface elements:

- [Menu File](#)
- [Menu Edit in Regular Mode](#)
- [Menu Edit in Cell Edit Mode](#)
- [Menu Help](#)
- [Field Protection](#)
- [Table Fields](#)
- [Connection Wizard](#)

## Integration with Other Products

You may integrate gConnectionManager with your product to allow users to edit connection strings in configuration files.

See [Command Line](#) about parameters.

If your product uses private installations of database providers, you may specify database provider factories in the gConnectionManager [configuration file](#).



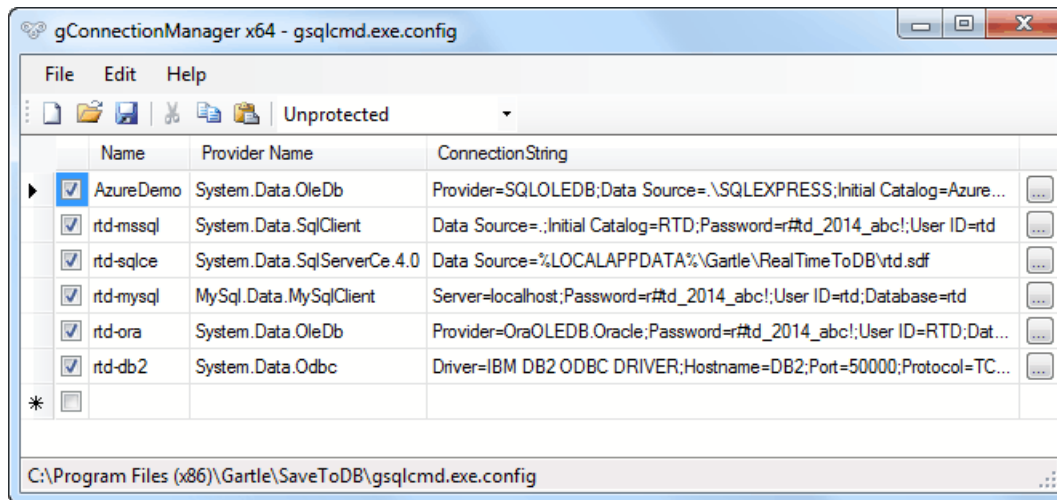
## User Interface

gConnectionManager allows creating and editing connection strings in application configuration files.

You may edit connection strings directly in table cells.

Click the "..." button to start the [Connection Wizard](#).

Here is an example of the configuration file:



gConnectionManager edits a single configuration file.

You may start multiple copies of gConnectionManager to edit multiple configuration files at the same time.

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See the following topics about user interface elements:

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- [Field Protection](#)
- [Table Fields](#)
- [Connection Wizard](#)

### Menu File

#### New

Creates a new configuration file.

#### Open

Opens an existing configuration file.

#### Reopen

Reopens the opened configuration file and discards all changes.

#### Save

Saves the file.

#### Save As

Opens the Save As dialog box to save the file with a new name.

#### Exit

Closes the program.

### Menu Edit in Regular Mode

#### Cut

Cuts the selected connection strings to the Clipboard.

#### **Copy**

Copies the selected cells or selected rows to the Clipboard.

#### **Paste**

Pastes the cell or row values from the Clipboard.

To add the connection strings from the Clipboard, select the last row of the table before pasting.

#### **Select All**

Selects all table cells.

## Menu Edit in Cell Edit Mode

#### **Cut**

Cuts the selected text to the Clipboard.

#### **Copy**

Copies the selected text to the Clipboard.

#### **Paste**

Pastes the value from the Clipboard.

#### **Select All**

Selects the all text.

## Menu Help

#### **Help**

Opens the help file.

The help file can be specified by the /helpfile option in the command line.

#### **Homepage**

Opens the gConnectionManager home page on the [www.savetodb.com](http://www.savetodb.com) website.

#### **Check Updates**

Opens the web page to check and download product updates.

#### **About gConnectionManager**

Displays the **About gConnectionManager** dialog box.

## Field Protection

#### **Unprotected**

The connection strings are stored unencrypted.

This feature allows moving configuration files to other computers.

#### **User Protected**

The connection strings are stored encrypted using Windows cryptographic providers.

The connection strings are available for programs launched under the current user account.

#### **Machine Protected**

The connection strings are stored encrypted using Windows cryptographic providers.

The connection strings are available for programs launched under any user account on the machine.

## Table Fields

#### **Enable/Disable**

Allows enabling and disabling connection strings.

The disabled connection strings are moved to the disabledConnectionStrings section of the configuration file.

#### **Name**

Shows connection string names.

The names must be unique.

### ProviderName

Shows connection string ProviderNames.

Activates Connection Wizard for newly created connection strings.

### ConnectionString

Shows connection string ConnectionString fields.

Activates Connection Wizard for newly created connection strings.

### Change Connection String "..."

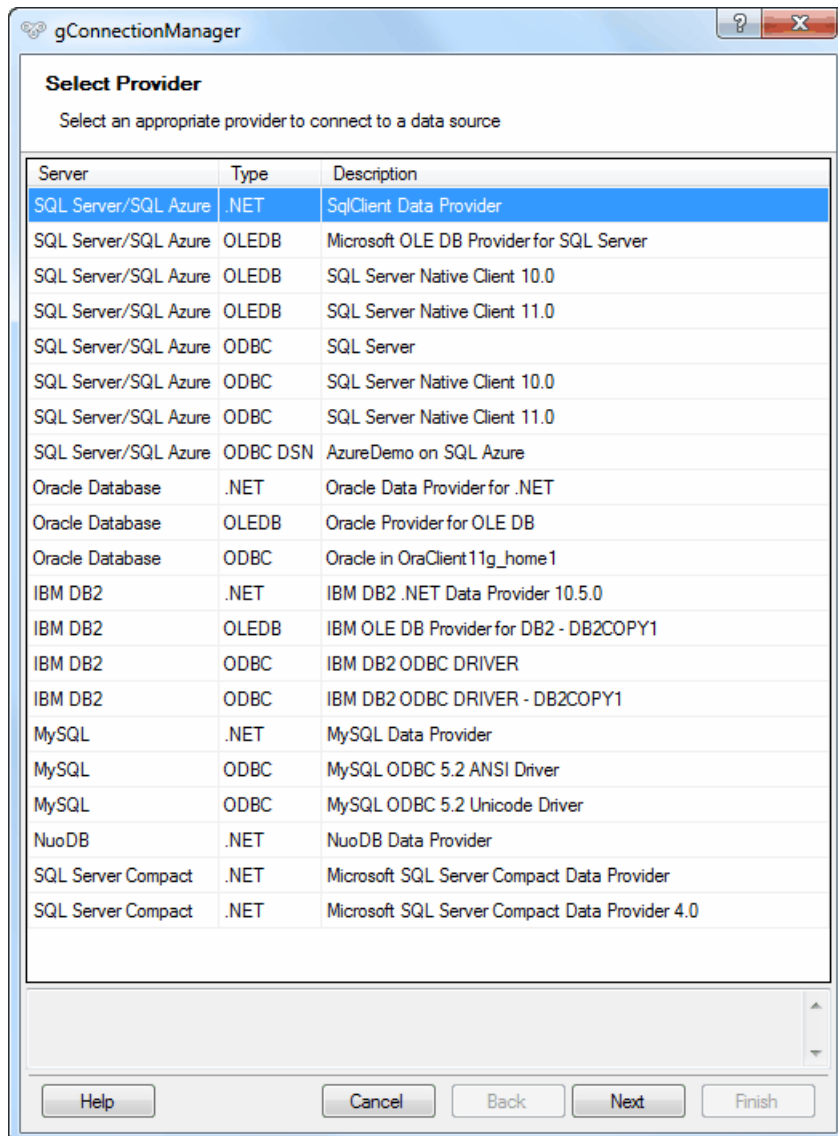
Activates Connection Wizard to edit the connection string.

To click the button, click the mouse button or press the space bar.

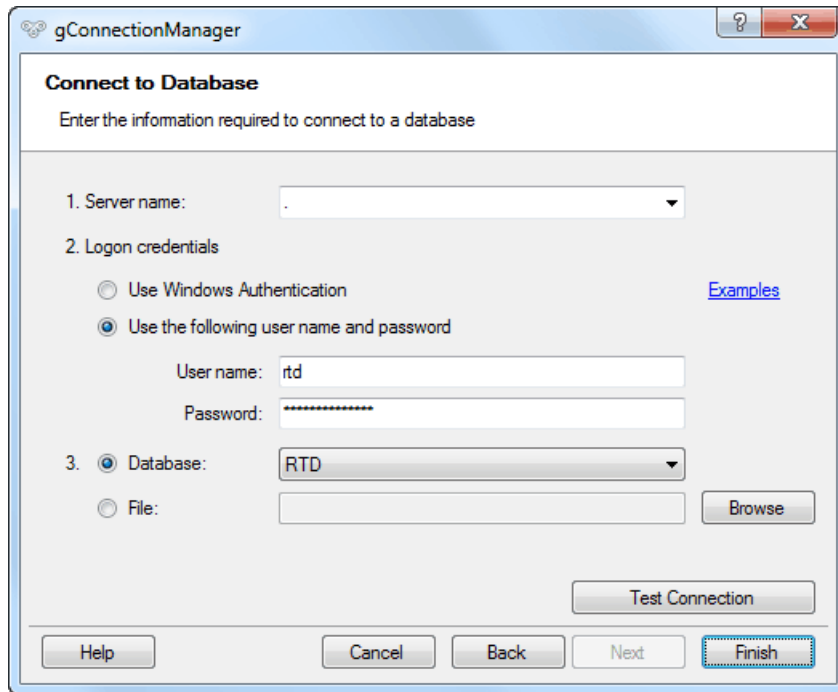
## Connection Wizard

The Connection Wizard allows connecting to databases in visual mode.

Select a connection provider in the first step:



Connect to a database on the second step:



The image shows a Windows-style dialog box titled "gConnectionManager" with a subtitle "Connect to Database". Below the subtitle is the instruction "Enter the information required to connect to a database". The dialog is divided into three numbered steps:

1. Server name: A dropdown menu showing ".".
2. Logon credentials:
  - ☐ Use Windows Authentication
  - ☒ Use the following user name and password

Below these options are two text fields: "User name:" containing "rtd" and "Password:" containing a masked password "\*\*\*\*\*". To the right of the "Use the following user name and password" option is a blue hyperlink labeled "Examples".
3. ☒ Database: A dropdown menu showing "RTD".  
☐ File: An empty text field with a "Browse" button to its right.

At the bottom right of the main area is a "Test Connection" button. At the very bottom of the dialog are five buttons: "Help", "Cancel", "Back", "Next", and "Finish". The "Finish" button is highlighted with a dashed border, indicating it is the active or recommended action.

The different database servers have specific features described in separate topics.

Click the **Help** button or the **Examples** link to get the context help during the connecting.

The **Finish** button is enabled when the connection is successful. The wizard tests the connection in the background and activates the button.

If the **Finish** button is disabled, click the **Test Connection** button to test connection.

See specific feature descriptions on the following topics:

- [Connecting to Microsoft SQL Server](#)
- [Connecting to Microsoft SQL Server Compact](#)
- [Connecting to Oracle Database](#)
- [Connecting to IBM DB2](#)
- [Connecting to MySQL and MariaDB](#)
- [Connecting to NuoDB](#)
- [Connecting to PostgreSQL](#)
- [Connecting to SQLite](#)

## Command Line

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### Command line format:

gConnectionManager <input file> [/helpfile=<help file>] [/runas]

### Parameter Input File

Defines the configuration file to open.

### Option HelpFile

Defines the help file.

Use this option to show the help of an integrated product.

The help file must contain the following topic IDs:

- 1000 Main page
- 1021 Connecting to Microsoft SQL Server
- 1022 Connecting to Oracle Database
- 1023 Connecting to IBM DB2
- 1024 Connecting to Microsoft SQL Server Compact
- 1025 Connecting to Oracle MySQL or to SkySQL MariaDB
- 1026 Connecting to NuoDB
- 1030 Connecting to SQLite

### Option RunAs

Disables the query of administrator privileges even the file cannot be written with the current user privileges.

gConnectionManager adds this option when reloads itself with administrator privileges after elevating.

## Configuration File

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The configuration file can be used to specify database connection providers if they components are located in the utility directory.

For example, the .NET Framework Data Provider for MySQL is specified in the DbProviderFactories section:

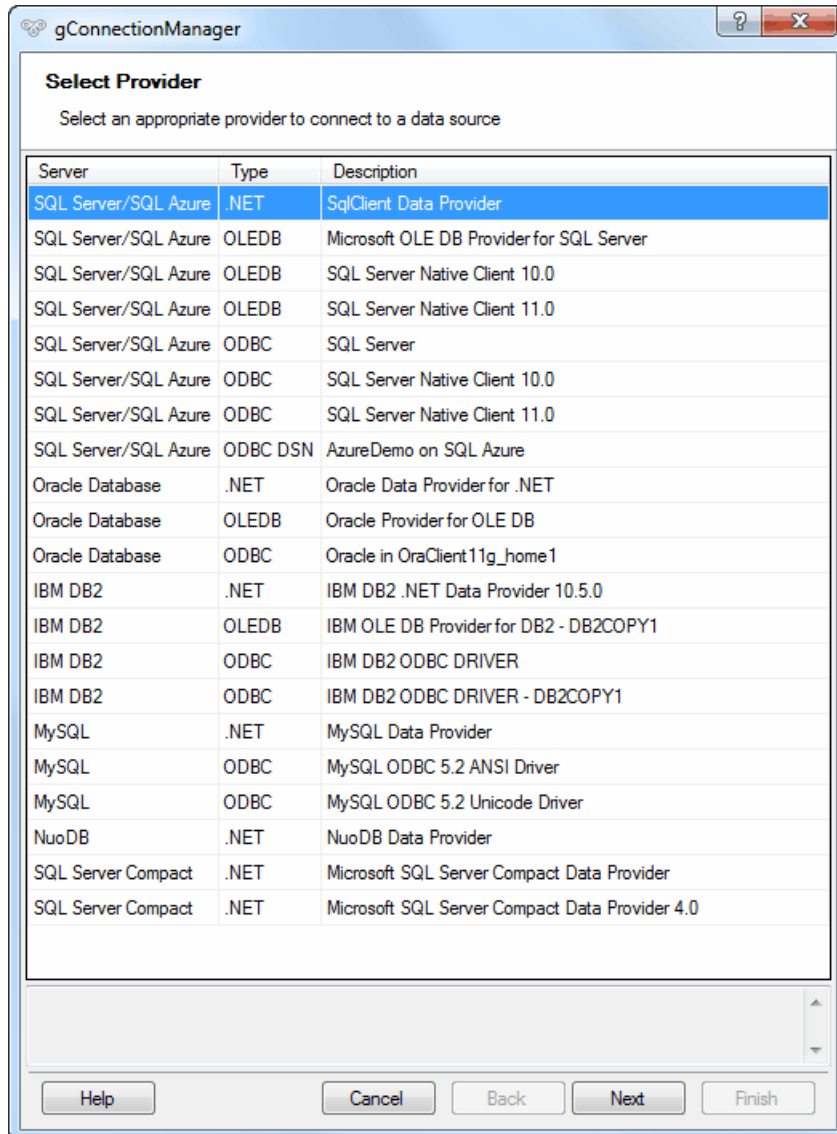
```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  ...
  <system.data>
    <DbProviderFactories>
      <remove invariant="MySQL.Data.MySqlClient"/>
      <add name="MySQL Data Provider" invariant="MySQL.Data.MySqlClient" description=".Net Framework Data Provider for MySQL"
type="MySQL.Data.MySqlClient.MySqlClientFactory, MySQL.Data, Version=6.8.3.0, Culture=neutral, PublicKeyToken=c5687fc88969c44
d" />
    </DbProviderFactories>
  </system.data>
</configuration>
```

## Connecting to Microsoft SQL Server

gConnectionManager supports connecting to all Microsoft SQL Server versions:

- Microsoft Azure SQL Database.
- Microsoft SQL Server.
- Microsoft SQL Server Express LocalDB.

### Selecting Provider



**.NET Framework Data Provider for SQL Server** and **Microsoft OLE DB Provider for SQL Server** are available by default.

To connect to file databases, for example using **Microsoft SQL Server Express LocalDB**, **SQL Server Native Client 11.0** providers installed are required.

## Connecting to Database

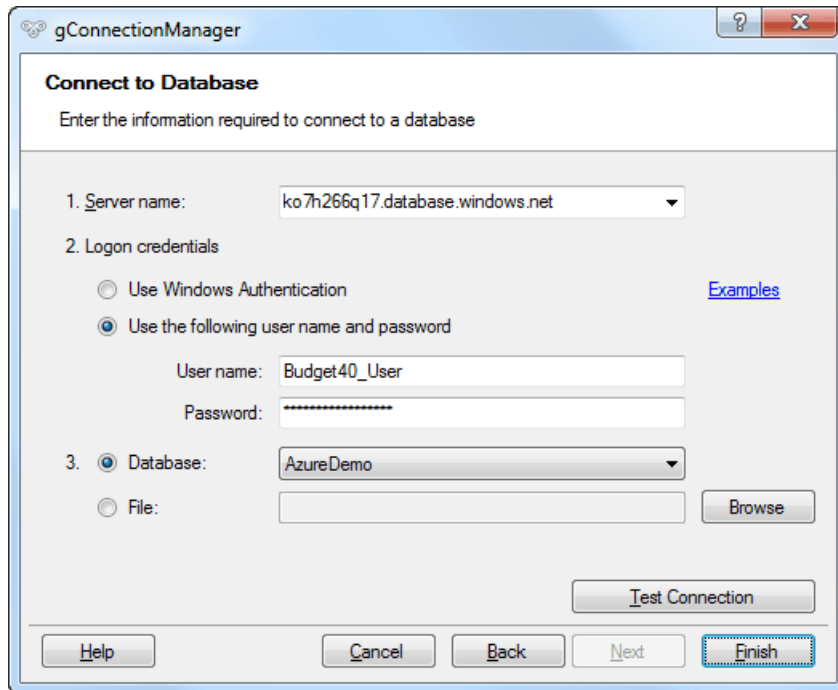
The server name format for Microsoft SQL Server:

<Server name or IP-address>[,<Port>][\<Instance name>]

The database field is available when the server and the logon credentials are specified.

The database list is populated with the databases available for a connection.

This is an example of a connection to the AzureDemo database in Windows Azure SQL Database:

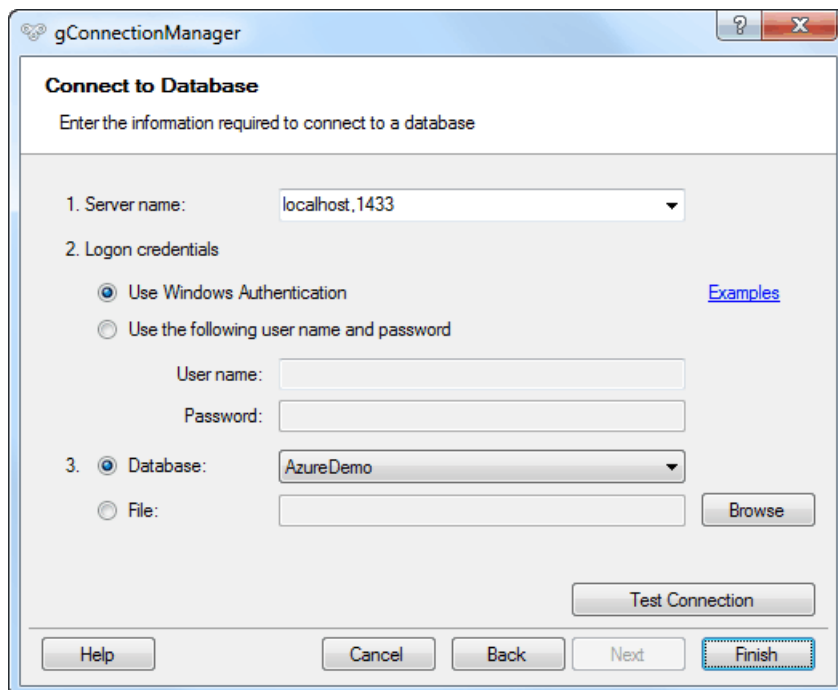


The screenshot shows the 'gConnectionManager' dialog box with the title 'Connect to Database'. The subtitle is 'Enter the information required to connect to a database'. The dialog is divided into three sections:

- 1. Server name:** A dropdown menu showing 'ko7h266q17.database.windows.net'.
- 2. Logon credentials:** Two radio buttons are present. The first is 'Use Windows Authentication' (unselected). The second is 'Use the following user name and password' (selected). Below these are two text boxes: 'User name:' containing 'Budget40\_User' and 'Password:' containing a masked password '\*\*\*\*\*'. A blue link labeled 'Examples' is to the right of the radio buttons.
- 3. Database:** A radio button labeled 'Database:' is selected, with a dropdown menu showing 'AzureDemo'. Below it is a radio button labeled 'File:' with an empty text box and a 'Browse' button.

At the bottom right is a 'Test Connection' button. At the bottom left are buttons for 'Help', 'Cancel', 'Back', 'Next', and 'Finish' (which is highlighted with a dashed border).

This is an example of the connection to the local server on port 1433:



The screenshot shows the 'gConnectionManager' dialog box with the title 'Connect to Database'. The subtitle is 'Enter the information required to connect to a database'. The dialog is divided into three sections:

- 1. Server name:** A dropdown menu showing 'localhost,1433'.
- 2. Logon credentials:** Two radio buttons are present. The first is 'Use Windows Authentication' (selected). The second is 'Use the following user name and password' (unselected). Below these are two empty text boxes: 'User name:' and 'Password:'. A blue link labeled 'Examples' is to the right of the radio buttons.
- 3. Database:** A radio button labeled 'Database:' is selected, with a dropdown menu showing 'AzureDemo'. Below it is a radio button labeled 'File:' with an empty text box and a 'Browse' button.

At the bottom right is a 'Test Connection' button. At the bottom left are buttons for 'Help', 'Cancel', 'Back', 'Next', and 'Finish' (which is highlighted with a dashed border).

The 'localhost' should be used for the local server with the port specification as Microsoft Excel does not support the '.' notation with the port specified.

This is an example of the connection to the SQLEXPRESS named instance:

The dialog box is titled "gConnectionManager" and has a subtitle "Connect to Database". Below the subtitle is the instruction "Enter the information required to connect to a database".

1. Server name: A dropdown menu showing ".SQLEXPRESS".

2. Logon credentials:

- ☒ Use Windows Authentication (with a blue "Examples" link to the right)
- ☐ Use the following user name and password

User name: [text box]  
Password: [text box]

3. ☒ Database: A dropdown menu showing "AzureDemo".

☐ File: [text box] [Browse button]

[Test Connection button]

[Help] [Cancel] [Back] [Next] [Finish] buttons at the bottom.

This is an example of the connection to a file database using Microsoft SQL Server Express LocalDB:

The dialog box is titled "gConnectionManager" and has a subtitle "Connect to Database". Below the subtitle is the instruction "Enter the information required to connect to a database".

1. Server name: A dropdown menu showing "(localdb)\v11.0".

2. Logon credentials:

- ☒ Use Windows Authentication (with a blue "Examples" link to the right)
- ☐ Use the following user name and password

User name: [text box]  
Password: [text box]

3. ☐ Database: [text box]

☒ File: [text box showing "D:\DATA\LocalDB\AzureDemo.mdf"] [Browse button]

[Test Connection button]

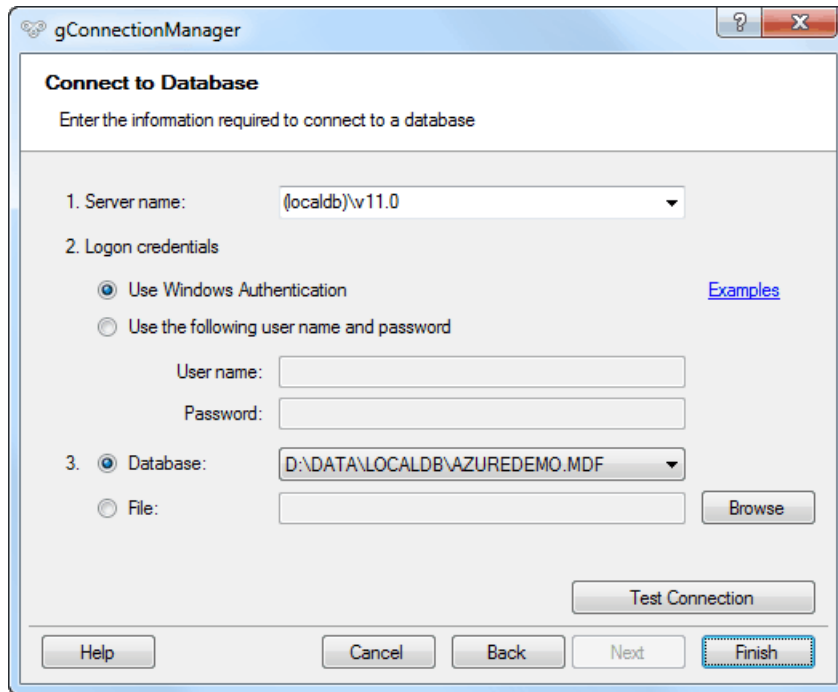
[Help] [Cancel] [Back] [Next] [Finish] buttons at the bottom.

You may use the **Browse** button to select a file.

The **SQL Server Native Client 11.0** provider is required to connect to a file database.



If the file database is already attached it is available through the database list.



The image shows a Windows-style dialog box titled "gConnectionManager" with a standard Windows icon in the top-left corner and help/question mark and close buttons in the top-right corner. The main title is "Connect to Database" in bold. Below the title is a subtitle: "Enter the information required to connect to a database".

The dialog is divided into three numbered sections:

- 1. Server name:** A dropdown menu showing "(localdb)\v11.0".
- 2. Logon credentials:** Two radio buttons are present. The first, "Use Windows Authentication", is selected. To its right is a blue hyperlink labeled "Examples". The second radio button is "Use the following user name and password". Below these are two text input fields labeled "User name:" and "Password:".
- 3. Database:** Two radio buttons are present. The first, "Database:", is selected and followed by a dropdown menu showing "D:\DATA\LOCALDB\AZUREDEMO.MDF". The second radio button is "File:", followed by an empty text input field and a "Browse" button.

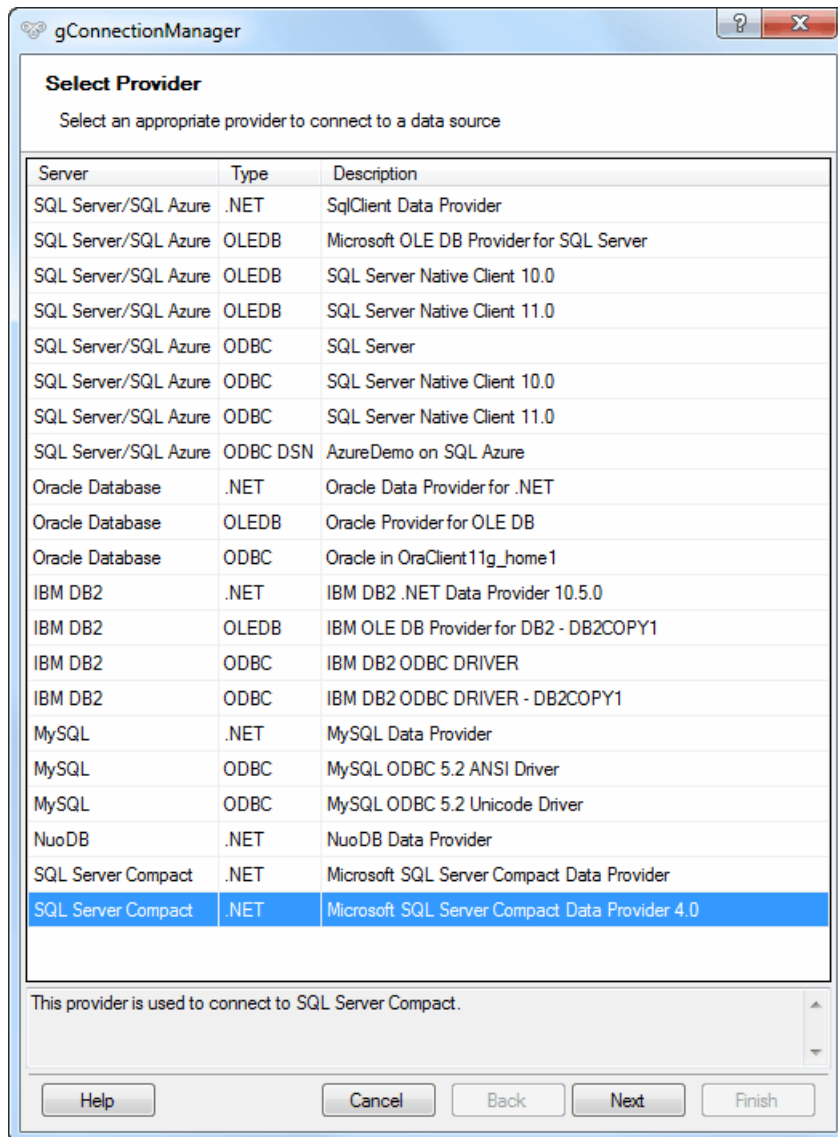
At the bottom of the dialog, there is a "Test Connection" button. Below that is a row of five buttons: "Help", "Cancel", "Back", "Next", and "Finish". The "Finish" button is highlighted with a blue dashed border.

However, the better way is to use the file connection for a file database as the database can be detached anytime. In this case, the file connection works while the database connection is not.

## Connecting to Microsoft SQL Server Compact

gConnectionManager supports connecting to Microsoft SQL Server Compact databases.

### Selecting Provider



**Microsoft SQL Compact Data Provider** supports working with **Microsoft SQL Server Compact 3.5**, and **Microsoft SQL Compact Data Provider 4.0** supports working with **Microsoft SQL Server Compact 4.0**.

You may download Microsoft SQL Server Compact 4.0 at <http://www.microsoft.com/en-us/download/details.aspx?id=30709>

and Microsoft SQL Server Compact 3.5 SP2 at <http://www.microsoft.com/en-us/download/details.aspx?id=5783>.

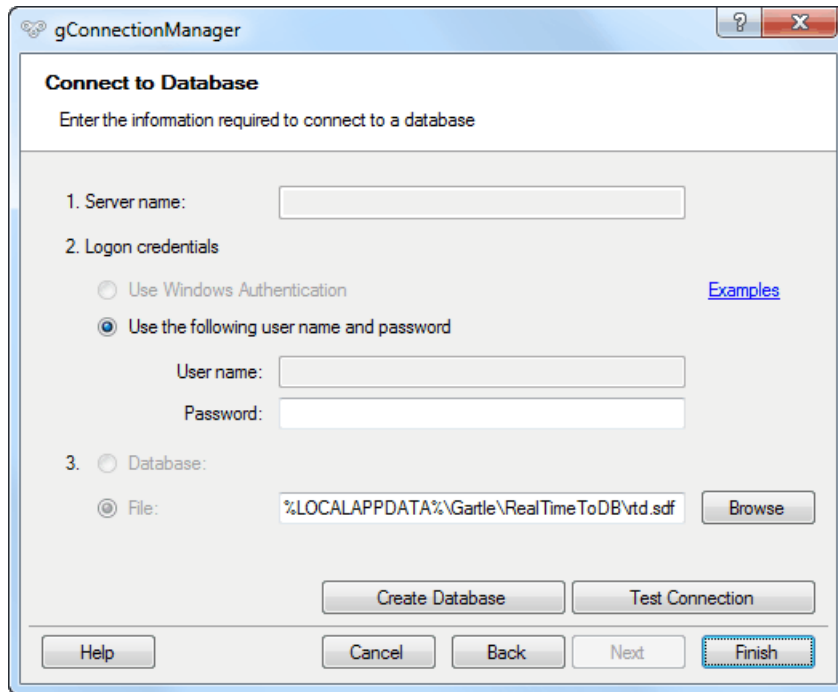
### Connecting to Microsoft SQL Server Compact Database File

An existing database file must be specified to connect to Microsoft SQL Server Compact.

A password must be specified if the database file is encrypted.

You may specify environment variables like %LocalAppData% in the database file path if this feature is supported by the configured product.

The Microsoft SQL Server Compact database can be created during connection.



The gConnectionManager dialog box is titled "Connect to Database". It contains the following fields and controls:

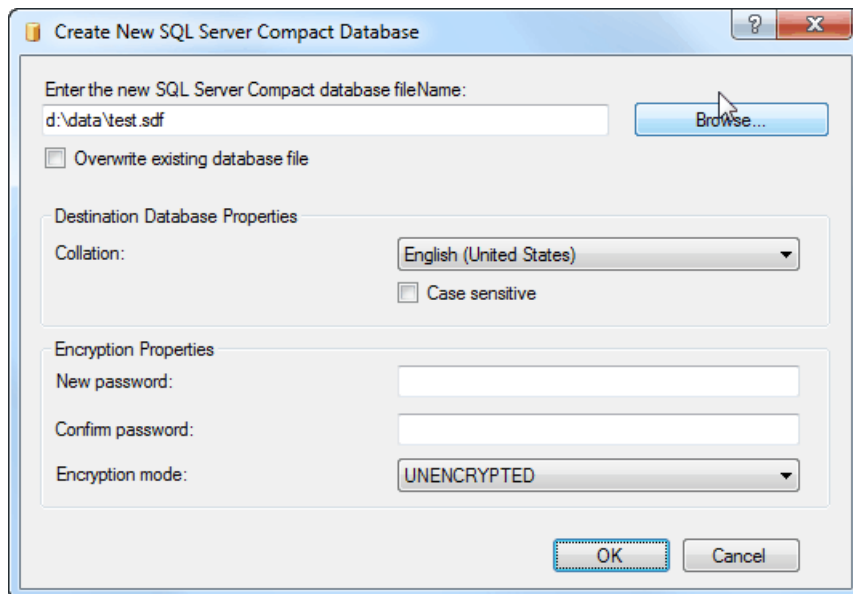
- 1. Server name: A text input field.
- 2. Logon credentials:
  - ☐ Use Windows Authentication
  - ☒ Use the following user name and password
    - User name: A text input field.
    - Password: A text input field.
- 3. Database:
  - ☐ Database:
  - ☒ File: A text input field containing the path "%LOCALAPPDATA%\Gartle\RealTimeToDB\vtld.sdf".

At the bottom, there are buttons for "Create Database", "Test Connection", "Help", "Cancel", "Back", "Next", and "Finish".

## Creating Microsoft SQL Server Compact Database

gConnectionManager allows creating Microsoft SQL Server Compact databases including versions 3.5 and 4.0.

The database version is defined by the Microsoft SQL Server Compact provider selected at the first step.



The "Create New SQL Server Compact Database" dialog box contains the following fields and controls:

- Enter the new SQL Server Compact database fileName: A text input field containing "d:\data\test.sdf".
- Browse...: A button next to the fileName field.
- ☐ Overwrite existing database file
- Destination Database Properties:
  - Collation: A dropdown menu showing "English (United States)".
  - ☐ Case sensitive
- Encryption Properties:
  - New password: A text input field.
  - Confirm password: A text input field.
  - Encryption mode: A dropdown menu showing "UNENCRYPTED".

At the bottom, there are buttons for "OK" and "Cancel".

Check **Overwrite existing database file** to recreate a database file.

You may specify a password to encrypt the database file.

Encryption modes:

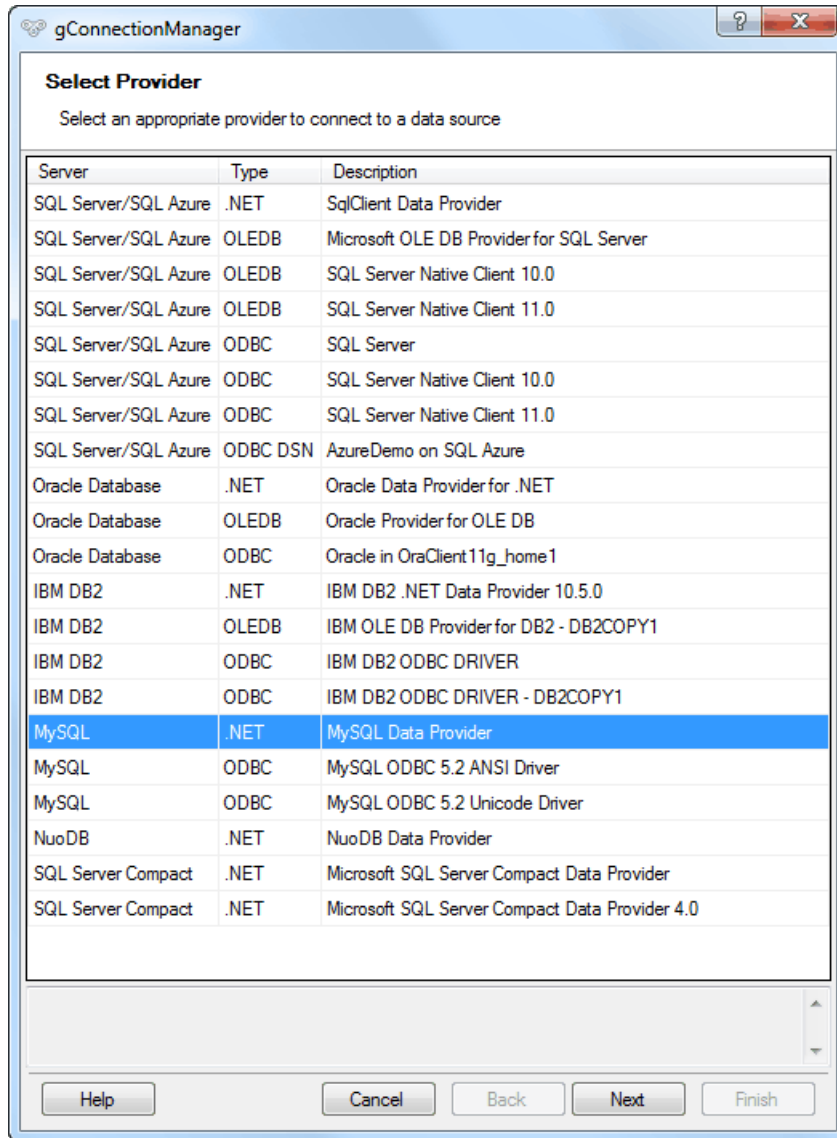
1. **Platform Default:** The algorithms used in this mode are AES128\_SHA256, where AES128 is the encryption algorithm with 128-bit key and SHA256 is the hash algorithm with 256-bit key. This is the default encryption mode option on all SQL Server Compact 4.0 supported platforms.
2. **Engine Default:** In this mode, the database is encrypted using AES256\_SHA512, where AES256 is the encryption algorithm and SHA512 is the secure hash algorithm. The default key length is used to maintain backward compatibility with SQL Server Compact 3.5.

## Connecting to MySQL and MariaDB

gConnectionManager supports connecting to MySQL and MariaDB databases.

MariaDB is completely compatible with MySQL. So you may use MySQL providers and drivers to connect both servers.

### Selecting Provider



Two types of providers can be used to connect MySQL:

- **MySQL ODBC Driver.**
- **MySQL Data Provider for .NET.**

You may download **MySQL ODBC drivers** at <http://dev.mysql.com/downloads/connector/odbc/>.

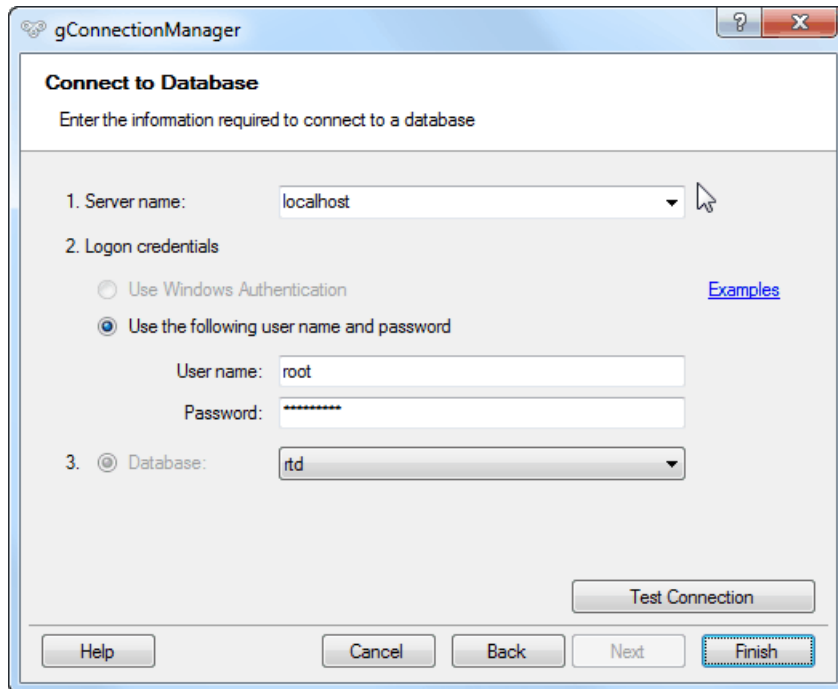
A **Unicode version of MySQL ODBC drivers** completely supports national characters; ANSI drivers can have issues with national characters.

## Connecting to Database

The MySQL server name format:

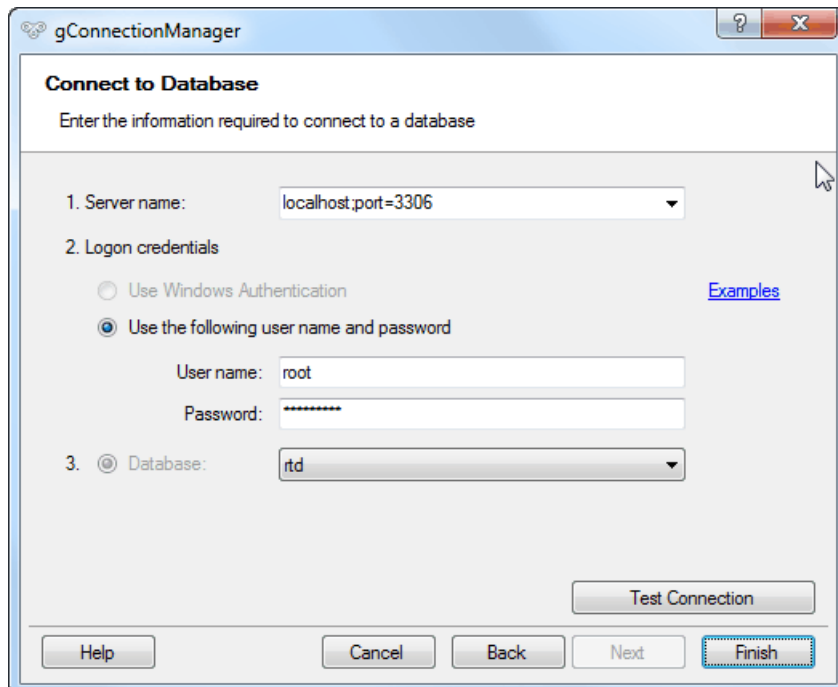
<Server name or IP-address>[:port=<Port>]

This is an example of the connection to the test database at the localhost:



The gConnectionManager dialog box is titled "Connect to Database" and contains the instruction "Enter the information required to connect to a database". It features three numbered steps: 1. Server name: A dropdown menu showing "localhost". 2. Logon credentials: Two radio buttons, "Use Windows Authentication" (unselected) and "Use the following user name and password" (selected). Below the second radio button are text fields for "User name:" (containing "root") and "Password:" (containing "\*\*\*\*\*"). A blue "Examples" link is to the right. 3. Database: A dropdown menu showing "rtd". At the bottom right is a "Test Connection" button. At the bottom are five buttons: "Help", "Cancel", "Back", "Next", and "Finish" (which is highlighted with a blue border).

This is an example of the connection to the test database at the localhost on port 3306:

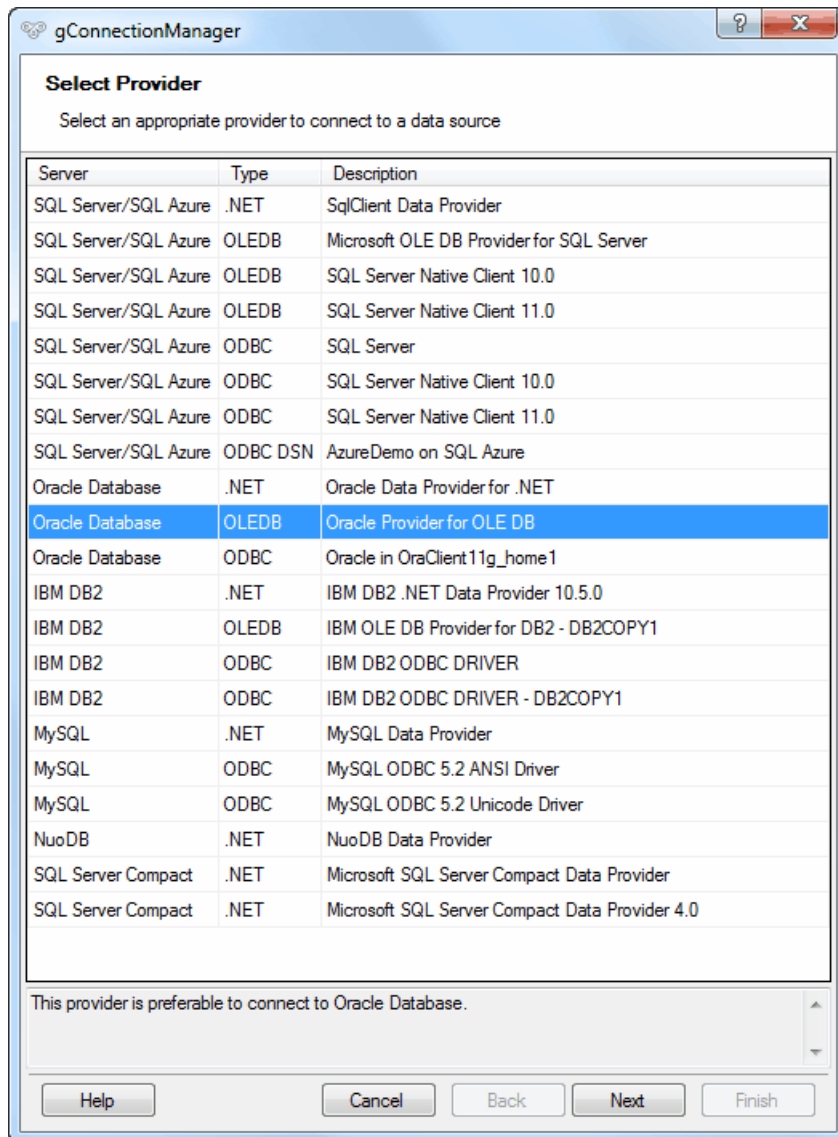


The gConnectionManager dialog box is titled "Connect to Database" and contains the instruction "Enter the information required to connect to a database". It features three numbered steps: 1. Server name: A dropdown menu showing "localhost:port=3306". 2. Logon credentials: Two radio buttons, "Use Windows Authentication" (unselected) and "Use the following user name and password" (selected). Below the second radio button are text fields for "User name:" (containing "root") and "Password:" (containing "\*\*\*\*\*"). A blue "Examples" link is to the right. 3. Database: A dropdown menu showing "rtd". At the bottom right is a "Test Connection" button. At the bottom are five buttons: "Help", "Cancel", "Back", "Next", and "Finish" (which is highlighted with a blue border).

## Connecting to Oracle Database

gConnectionManager supports connecting to Oracle Database databases.

### Selecting Provider



The **Oracle Database Client** components are required to connect Oracle Database.

See <http://www.oracle.com/technetwork/database/enterprise-edition/downloads/>

**Oracle OLE DB Provider** is the best choice as it supports all Oracle Database features.

## Connecting to Database

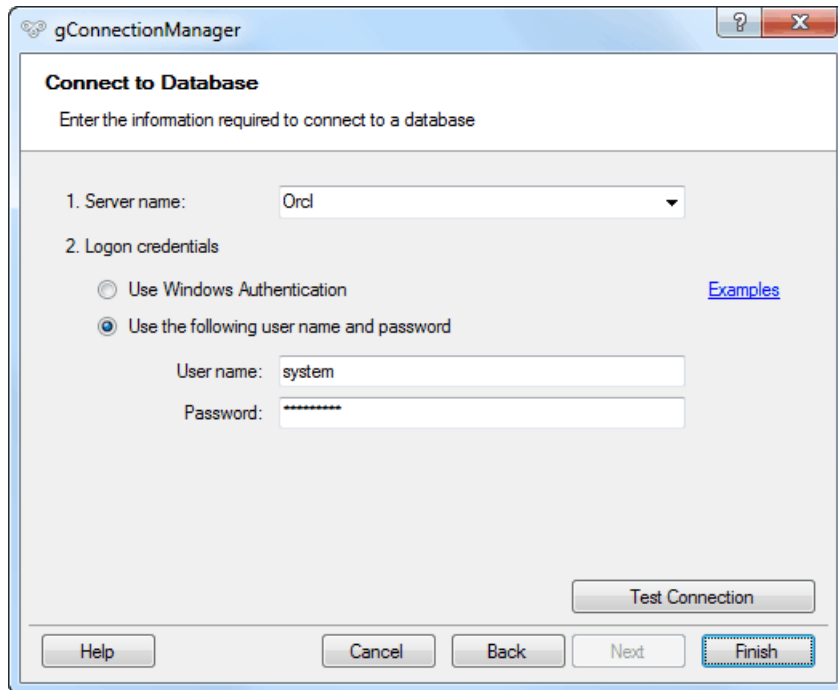
The Oracle Database server name format:

[<Server name or IP-address>[:<Port>]]/<Service name>

The service name only can be used if the service is configured in the **tnsnames.ora** file on the local machine.

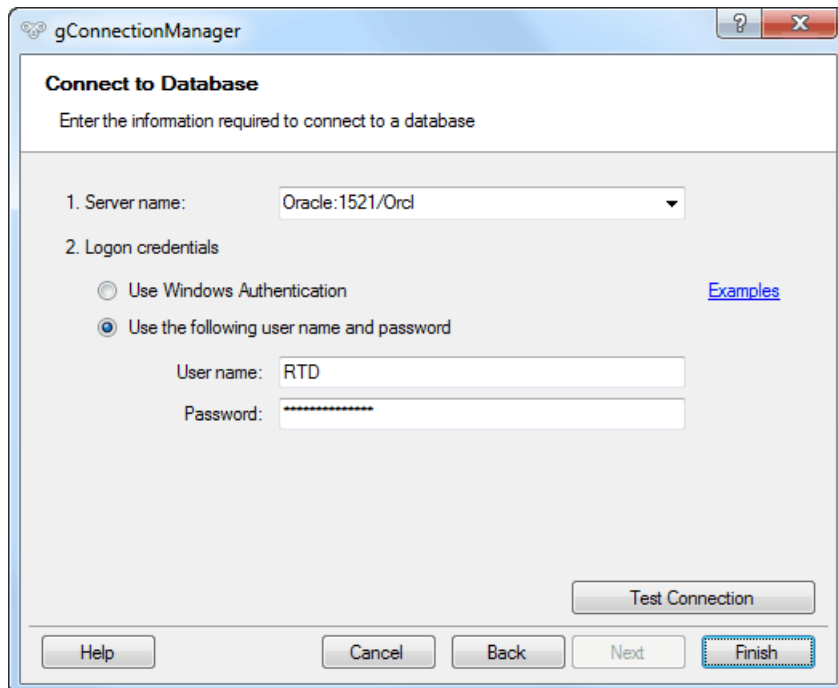
Microsoft Excel does not support connections as **SYSDBA** or **SYSOPER**, but you may logon as **SYSTEM**.

This is an example of the connection to the service named Orcl:



The screenshot shows the 'gConnectionManager' dialog box with the title 'Connect to Database'. Below the title is the instruction 'Enter the information required to connect to a database'. There are two main sections: '1. Server name:' with a dropdown menu showing 'Orcl', and '2. Logon credentials' with two radio buttons. The first radio button is 'Use Windows Authentication' and the second is 'Use the following user name and password', which is selected. Below the second radio button are two text boxes: 'User name:' with 'system' and 'Password:' with '\*\*\*\*\*'. To the right of the radio buttons is a blue link labeled 'Examples'. At the bottom right is a 'Test Connection' button. At the bottom left are four buttons: 'Help', 'Cancel', 'Back', and 'Next'. At the bottom right is a 'Finish' button.

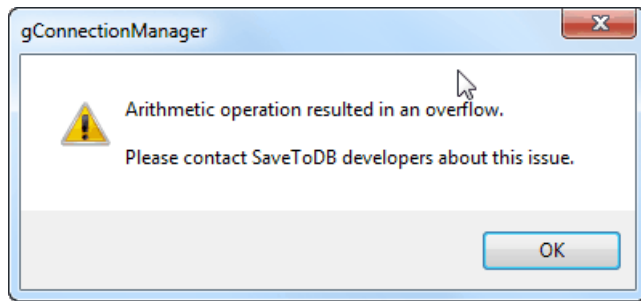
This is an example of the connection to the service named Orcl at the server named Oracle on port 1521:



The screenshot shows the 'gConnectionManager' dialog box with the title 'Connect to Database'. Below the title is the instruction 'Enter the information required to connect to a database'. There are two main sections: '1. Server name:' with a dropdown menu showing 'Oracle:1521/Orcl', and '2. Logon credentials' with two radio buttons. The first radio button is 'Use Windows Authentication' and the second is 'Use the following user name and password', which is selected. Below the second radio button are two text boxes: 'User name:' with 'RTD' and 'Password:' with '\*\*\*\*\*'. To the right of the radio buttons is a blue link labeled 'Examples'. At the bottom right is a 'Test Connection' button. At the bottom left are four buttons: 'Help', 'Cancel', 'Back', and 'Next'. At the bottom right is a 'Finish' button.

Multiple versions of **64-bit Oracle Database ODBC drivers** have an error.

You may get the "**Arithmetic operation resulted in an overflow**" message during connection:



The solution is to update the 64-bit Oracle Database ODBC driver to the latest version.

Or you may use Oracle OLE DB Provider that has no such error.

The **Oracle Database 10g** providers have an error. They do not work with the program started from the path that contains the brackets, for example (x86).

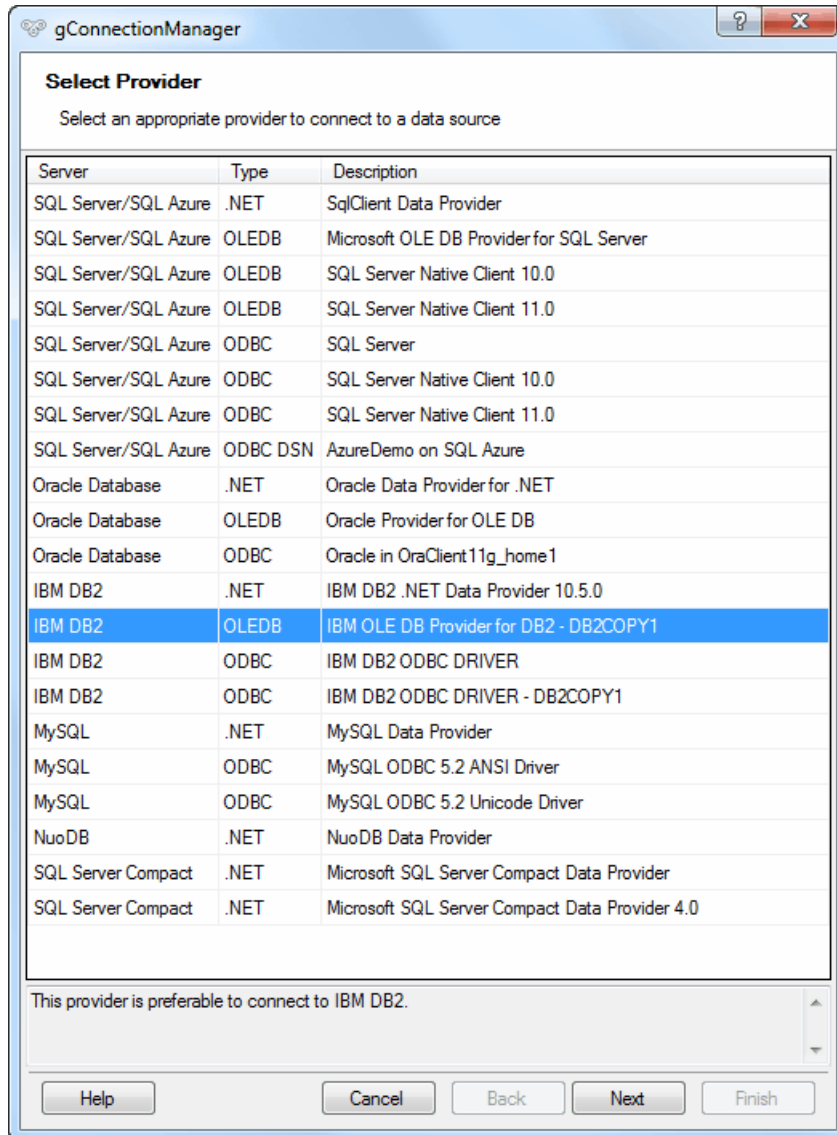
The **ORA-12154** error is appearing. To solve this issue, you may upgrade client components to **Oracle Database 11g** or to install the product in the directory that does not contain brackets.



## Connecting to IBM DB2

gConnectionManager supports connecting to IBM DB2 databases.

### Selecting Provider



**IBM DB2 .NET Provider**, **IBM OLE DB Provider for DB2** or **Microsoft OLE DB Provider for DB2** installed is required to connect IBM DB2.

See **IBM Data Server Client Packages** at <http://www.ibm.com/software/data/db2/linux-unix-windows/download.html> and **Microsoft OLEDB Provider for DB2** at <http://www.microsoft.com/en-us/download/details.aspx?id=16978>.

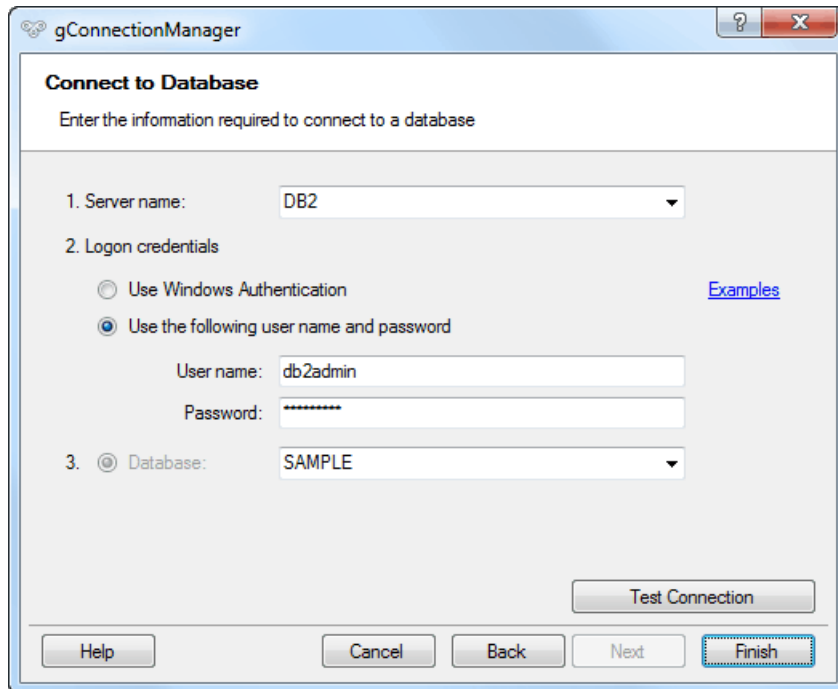
The IBM provider is the best choice as the Microsoft provider requires the Microsoft SQL Server Enterprise Edition license.

## Connecting to Database

The IBM DB2 server name format:

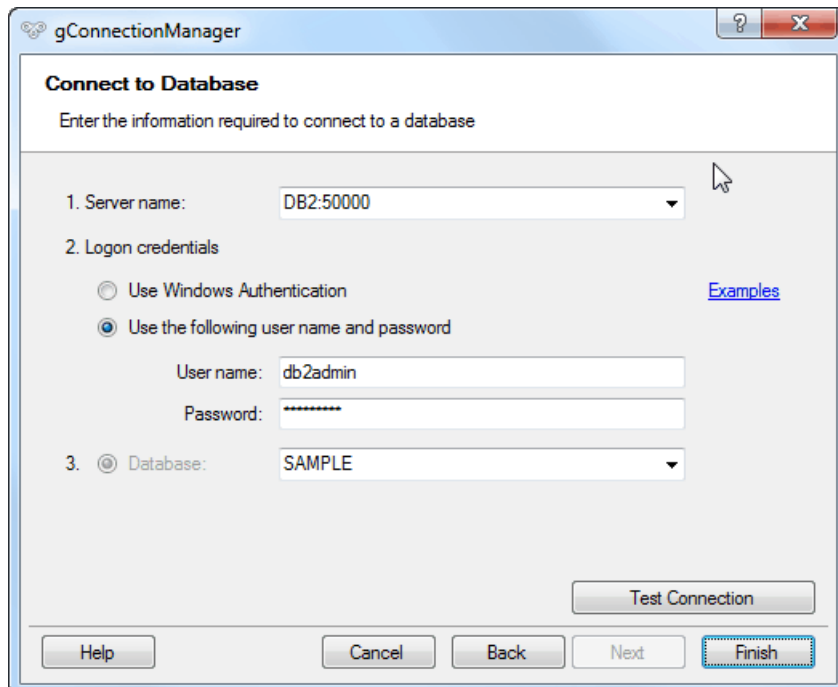
<Server name or IP-address>[:<Port>]

This is an example of the connection to the SAMPLE database at the server named DB2:



The gConnectionManager dialog box is titled "Connect to Database" and contains the instruction "Enter the information required to connect to a database". It features three numbered steps: 1. Server name: A dropdown menu with "DB2" selected. 2. Logon credentials: Two radio buttons, "Use Windows Authentication" (unselected) and "Use the following user name and password" (selected). Below the second radio button are text fields for "User name:" containing "db2admin" and "Password:" containing "\*\*\*\*\*". A blue "Examples" link is to the right. 3. Database: A dropdown menu with "SAMPLE" selected. At the bottom right is a "Test Connection" button. At the bottom are five buttons: "Help", "Cancel", "Back", "Next", and "Finish" (which is highlighted with a dashed border).

This is an example of the connection to the SAMPLE database at the server named DB2 on port 50000:

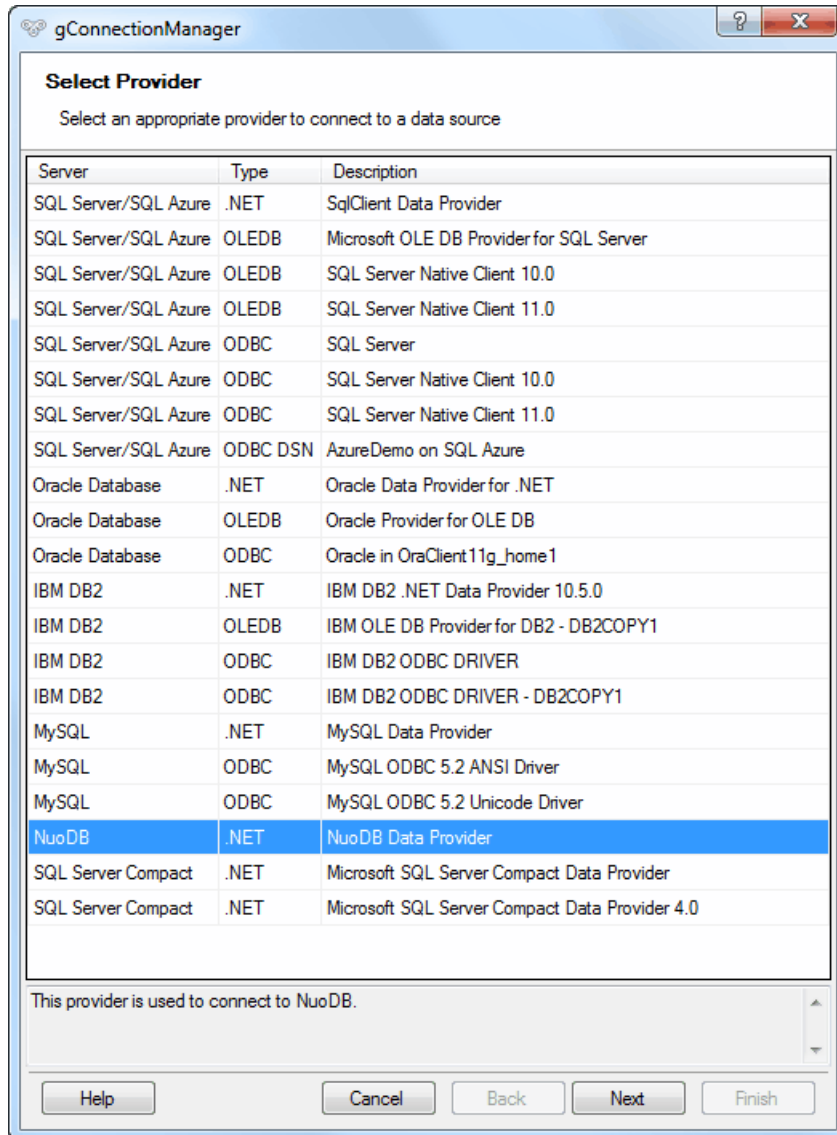


The gConnectionManager dialog box is titled "Connect to Database" and contains the instruction "Enter the information required to connect to a database". It features three numbered steps: 1. Server name: A dropdown menu with "DB2:50000" selected. A mouse cursor is pointing at the dropdown arrow. 2. Logon credentials: Two radio buttons, "Use Windows Authentication" (unselected) and "Use the following user name and password" (selected). Below the second radio button are text fields for "User name:" containing "db2admin" and "Password:" containing "\*\*\*\*\*". A blue "Examples" link is to the right. 3. Database: A dropdown menu with "SAMPLE" selected. At the bottom right is a "Test Connection" button. At the bottom are five buttons: "Help", "Cancel", "Back", "Next", and "Finish" (which is highlighted with a dashed border).

## Connecting to NuoDB

gConnectionManager supports connecting to NuoDB databases.

### Selecting Provider



Only **NuoDB ADO.NET Driver** can be used to connect NuoDB.  
ODBC connections are not supported.

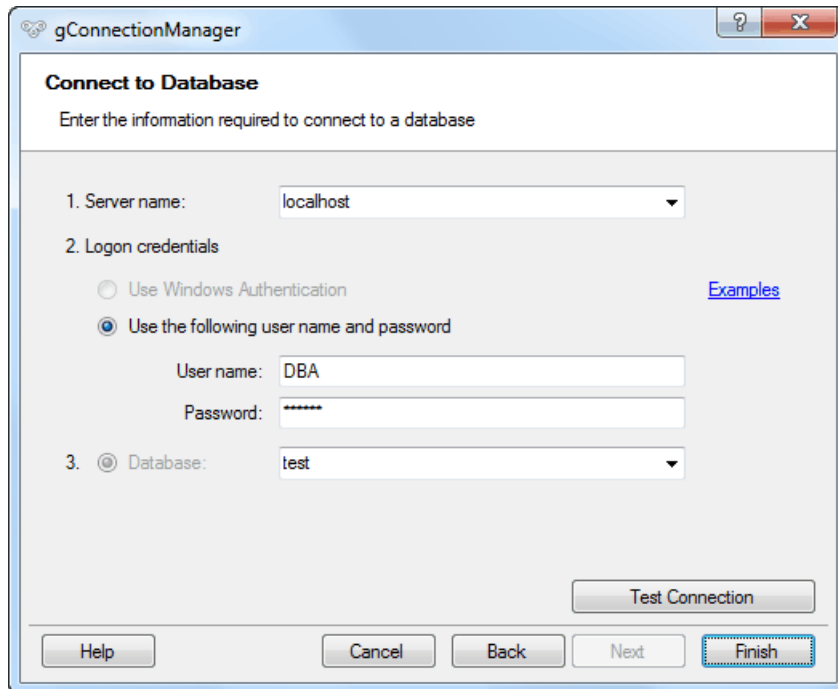
You may download **NuoDB ADO.NET Driver** at <http://www.nuodb.com>.

## Connecting to Database

The NuoDB server name format:

<Server name or IP-address>[:<Port>]

This is an example of the connection to the test database at the localhost:

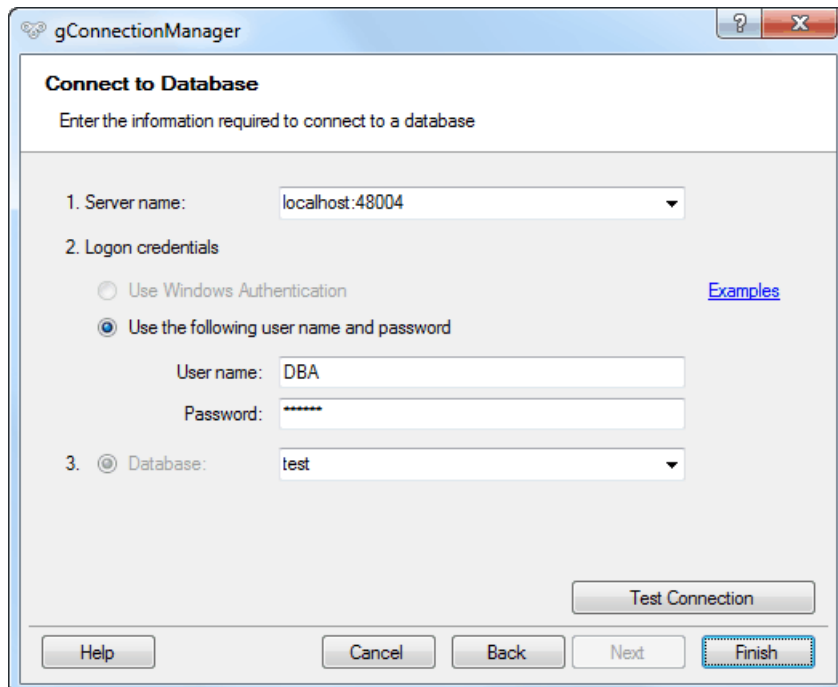


The screenshot shows the 'gConnectionManager' dialog box with the title 'Connect to Database'. Below the title is the instruction 'Enter the information required to connect to a database'. The dialog is divided into three numbered sections:

- 1. Server name:** A dropdown menu with 'localhost' selected.
- 2. Logon credentials:** Two radio buttons are present. The first is 'Use Windows Authentication' (unselected). The second is 'Use the following user name and password' (selected). To the right of these buttons is a blue link labeled 'Examples'. Below the radio buttons are two text input fields: 'User name:' containing 'DBA' and 'Password:' containing six asterisks '\*\*\*\*\*'.
- 3. Database:** A radio button is selected next to the label 'Database:'. To its right is a dropdown menu with 'test' selected.

At the bottom right of the dialog is a 'Test Connection' button. At the very bottom are five buttons: 'Help', 'Cancel', 'Back', 'Next', and 'Finish' (which is highlighted with a dashed border).

This is an example of the connection to the test database at the localhost on port 48004:



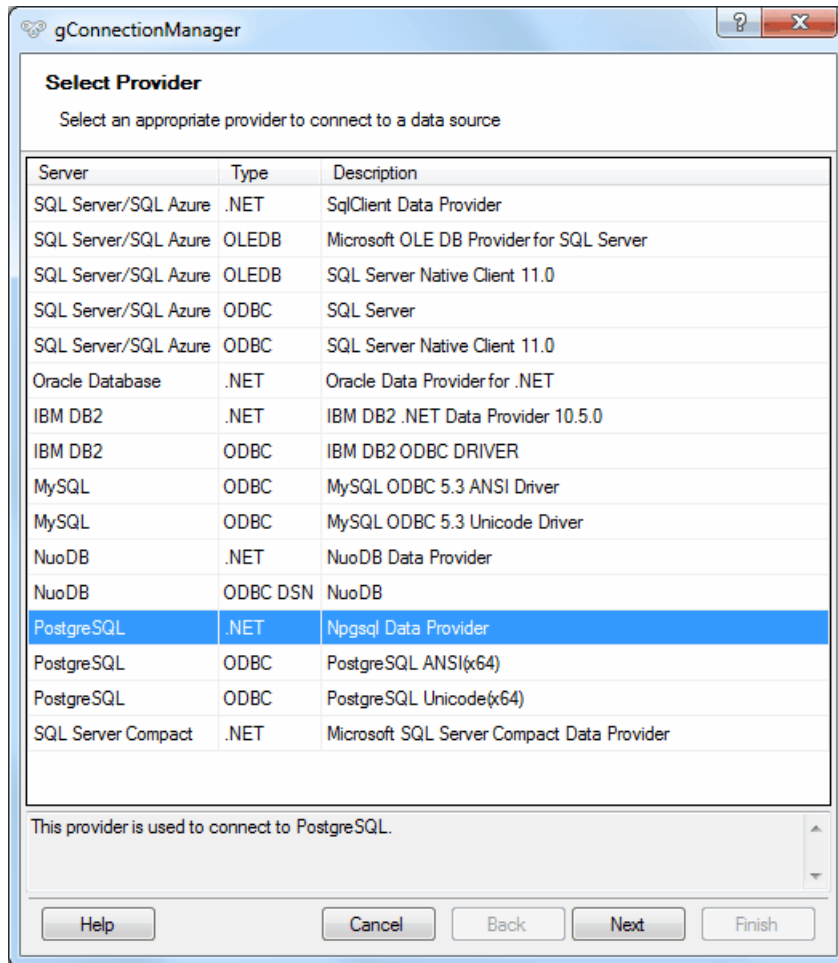
This screenshot is identical to the one above, showing the 'gConnectionManager' dialog box. The only difference is in the '1. Server name:' dropdown menu, which now displays 'localhost:48004' instead of 'localhost'. All other elements, including the logon credentials and database selection, remain the same.

# Connecting to PostgreSQL

## Preface

gConnectionManager supports connecting to PostgreSQL.

## Selecting Provider



Two types of providers can be used to connect PostgreSQL:

- **PostgreSQL ODBC Driver.**
- **Npgsql .NET PostgreSQL Data Provider.**

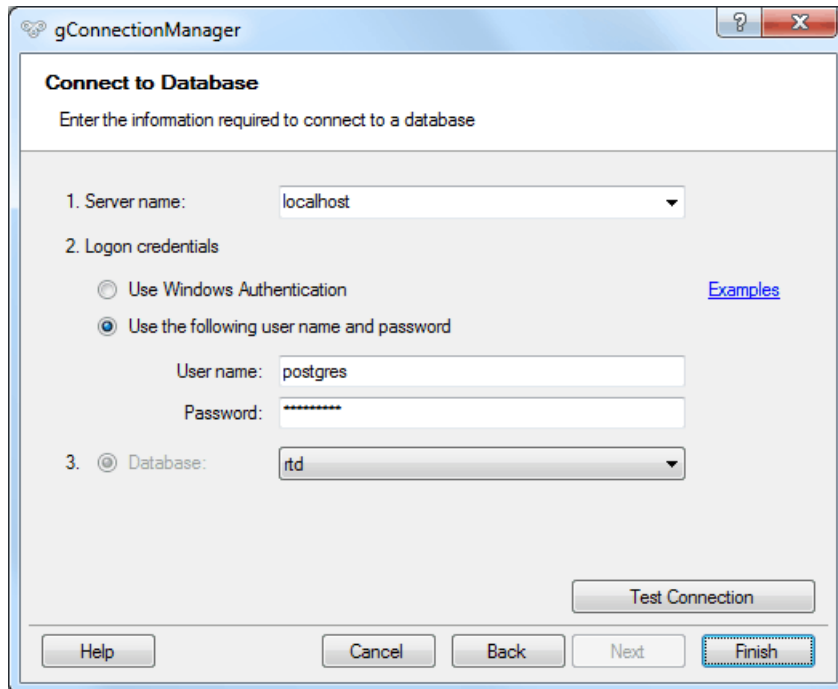
You may download **PostgreSQL ODBC drivers** at <http://www.postgresql.org/ftp/odbc/versions/msi/>.

## Connecting to Database

The PostgreSQL server name format:

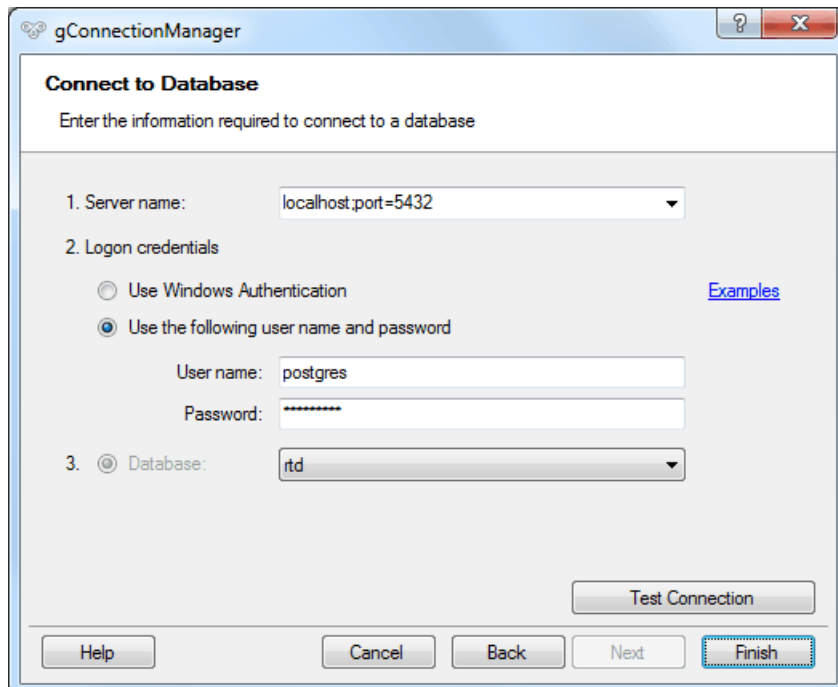
<Server name or IP-address>[:port=<Port>]

This is an example of the connection to the test database at the localhost:



The gConnectionManager dialog box is titled "Connect to Database" and contains the instruction "Enter the information required to connect to a database". It features three numbered steps: 1. "Server name:" with a dropdown menu showing "localhost"; 2. "Logon credentials" with two radio buttons: "Use Windows Authentication" (unselected) and "Use the following user name and password" (selected). Below these are text fields for "User name:" containing "postgres" and "Password:" containing "\*\*\*\*\*"; 3. "Database:" with a dropdown menu showing "rtd". A "Test Connection" button is located below the database dropdown. At the bottom are buttons for "Help", "Cancel", "Back", "Next", and "Finish". A blue "Examples" link is positioned to the right of the second radio button.

This is an example of the connection to the test database at the localhost on port 5432:



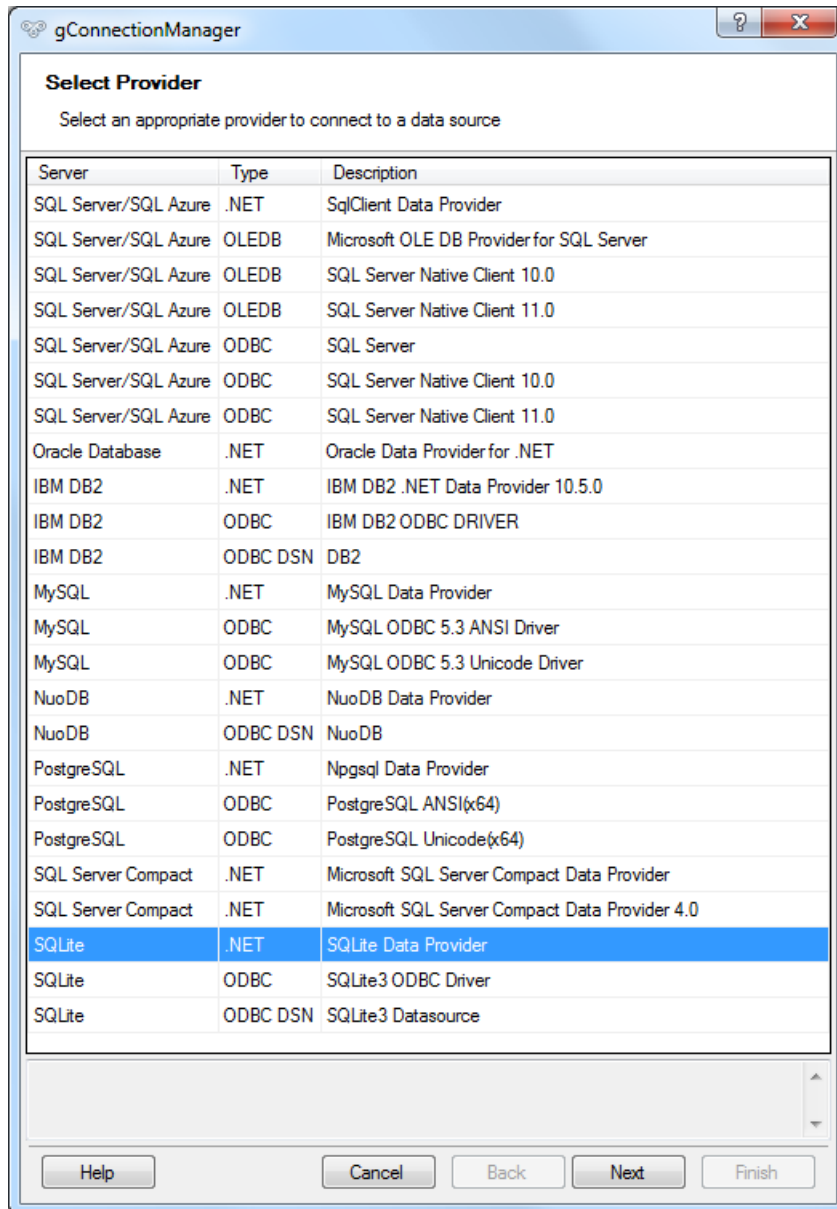
The gConnectionManager dialog box is titled "Connect to Database" and contains the instruction "Enter the information required to connect to a database". It features three numbered steps: 1. "Server name:" with a dropdown menu showing "localhost:port=5432"; 2. "Logon credentials" with two radio buttons: "Use Windows Authentication" (unselected) and "Use the following user name and password" (selected). Below these are text fields for "User name:" containing "postgres" and "Password:" containing "\*\*\*\*\*"; 3. "Database:" with a dropdown menu showing "rtd". A "Test Connection" button is located below the database dropdown. At the bottom are buttons for "Help", "Cancel", "Back", "Next", and "Finish". A blue "Examples" link is positioned to the right of the second radio button.

## Connecting to SQLite

### Preface

gConnectionManager supports connecting to SQLite databases.

### Selecting Provider



**SQLite Data Provider** is embedded into gConnectionManager and works by default.

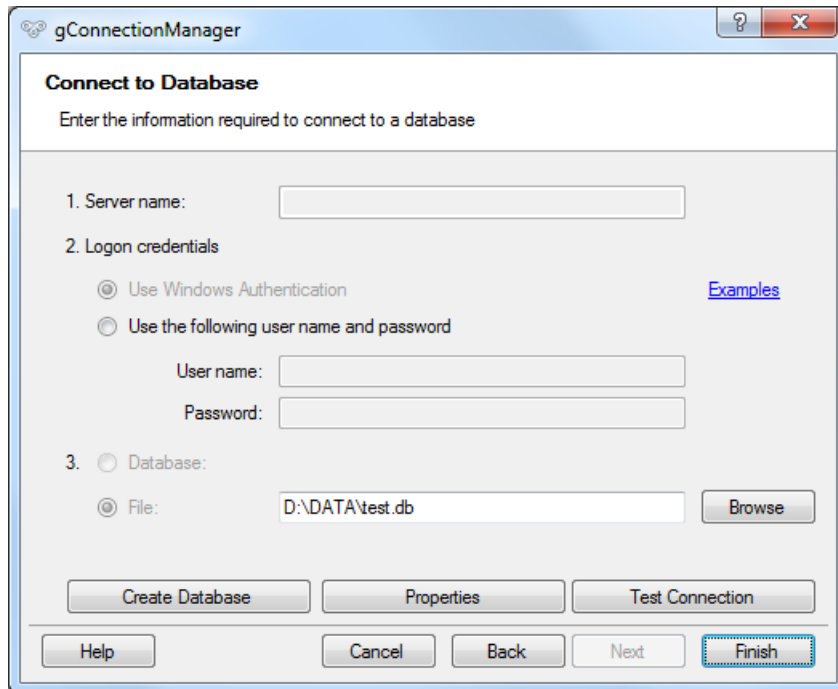
You may download and install SQLite ODBC Driver at <http://www.ch-werner.de/sqliteodbc/>.

## Connecting to SQLite Database File

An existing database file must be specified to connect to SQLite.

**A free version of SQLite with a public domain license does not support encrypting.**

The SQLite database can be created during connection.



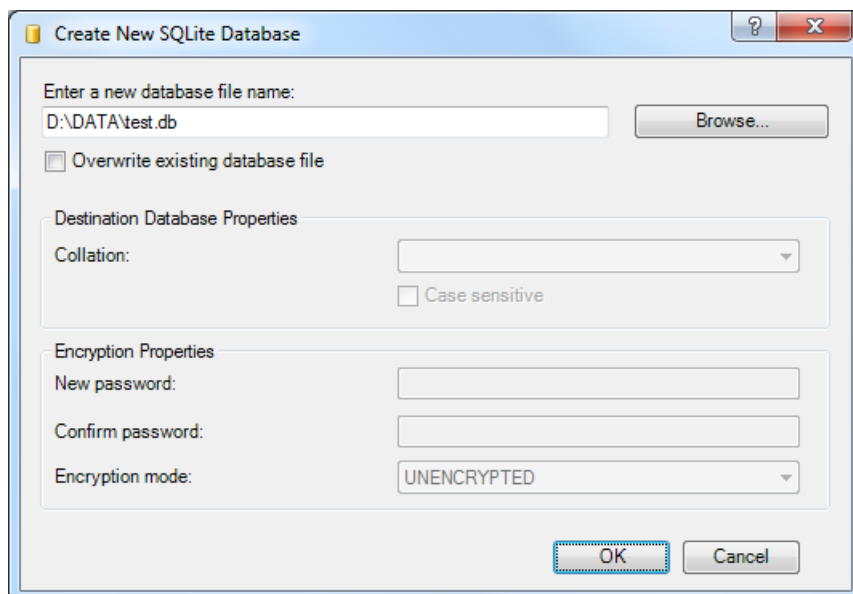
The gConnectionManager dialog box is titled "Connect to Database". It contains the following fields and controls:

- 1. Server name: A text input field.
- 2. Logon credentials:
  - ☒ Use Windows Authentication
  - ☐ Use the following user name and password
    - User name: A text input field.
    - Password: A text input field.
- 3. ☐ Database:
  - ☒ File: A text input field containing "D:\DATA\test.db" and a "Browse" button.

At the bottom, there are buttons for "Create Database", "Properties", "Test Connection", "Help", "Cancel", "Back", "Next", and "Finish".

## Creating SQLite Database

gConnectionManager allows creating SQLite databases.



The "Create New SQLite Database" dialog box contains the following fields and controls:

- Enter a new database file name: A text input field containing "D:\DATA\test.db" and a "Browse..." button.
- ☐ Overwrite existing database file
- Destination Database Properties:
  - Collation: A dropdown menu.
  - ☐ Case sensitive
- Encryption Properties:
  - New password: A text input field.
  - Confirm password: A text input field.
  - Encryption mode: A dropdown menu showing "UNENCRYPTED".

At the bottom, there are "OK" and "Cancel" buttons.

**A free version of SQLite with a public domain license does not support encrypting.**



## Technical Support

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You may download the latest releases at [www.gsqlcmd.com](http://www.gsqlcmd.com).

You may contact us via email [support@gsqlcmd.com](mailto:support@gsqlcmd.com).

See also [Frequently Asked Questions](#).

## Frequently Asked Questions

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### **What executable to use, gConnectionManager.exe or gConnectionManager32.exe?**

Use gConnectionManager32.exe to connect to databases using 32-bit providers on 64-bit Windows.

It is useful if 64-bit providers for any database platform are not installed and not shown in the connection provider list.