

Index to database topics

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ODBC and MSDE	Index to topics about Open Database Connectivity (ODBC) and Microsoft SQL Server Desktop Engine (MSDE).

Using the software Databases Operations

Index to database operations topics

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0	Opening a database	Opening a database and problems that may occur.
0	Closing a database	Closing a database is optional. Whenever you exit from The Compleat Botanica software the database is automatically closed.
0	Creating a new database	Your specimen are typically stored in a single database; however, there are times when you may want to create additional databases.
0	Deleting a database	Rules and precautions for deleting a database.
0	Making a backup copy of your database	It's essential to make a backup of your database whenever you've made changes to any of your specimen records. The backup process compresses your data and places it in a special format which can be used by the Restore database operation.
0	Restoring a database from a previous backup	You can restore a database to it's active state by using the Data Manager utility or directly from within The Compleat Botanica software.

Compleat Botanica - The Data Manager utility

Using the software Databases Operations

All of the major operations for working with your databases are accessible from the File menu. You can use The Compleat Botanica program to create and delete databases as well as backup and restore databases.

👙 The Compleat Bota	nica
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
<u>0</u> pen	
<u>C</u> lose	
<u>D</u> atabases 🕨 🕨	<u>C</u> reate
Import	<u>D</u> elete
<u>E</u> xport	<u>B</u> ackup
Exit	<u>R</u> estore

Sometimes though it is more convenient to do this outside of the program. The Data Manager utility is a stand-alone program which can perform these tasks.

Here is a snapshot of the utility:

Pee Co	ompleat Botani	ca Data Manage			
С This				Botani	
	Data source	Desc	ription		© Version
	Sample databas	e Exam	ples, ideas, and more		
					ODBC
					8+ 🔂 Attach
					🔆 Fast create
					d n a 1
1	- ·		De la		🕐 Exit
<u>*</u>	Create	X Delete	唱 Backup	B Restore	

See the related documents for instructions on each menuitem or button.

Opening a database

Opening a different database is simple, just double-click on the data source name.

Data source	Description	-	
Cronquist	Taxonomic database of plants		
GAIA	Taxonomic database of plants		Onen
MyGardens	Taxonomic database of plants		<u>O</u> pen
May16	Taxonomic database of plants		
Specimen4	Taxonomic database of plants	Litea	ate <u>n</u> ew
Sample database	Examples, ideas, and more	1	
MasterChecklist	My gardens and master checklist	0	Cancel
GAEA22	Database of specimen		
Penstemon	My private collection		

Opening an older database

👙 Database renovation re	quired	×
Database: Helianthus		🕁 Close
This database was created v the Compleat Botanica and r before being used with this v	eeds to be renovated	
You can make these change this window and try opening a		
Step 1	Step 2	Step 3
We recommend that you begin by making a backup copy of your database. Later on you can open this backup with the older version of the Compleat Botanica.	This will make changes to the way your database is structured so that you can use it with this version of the Compleat Botanica.	Begin using the database.
💼 🕄 Backup	🕂 Renovate	🕒 Open

If you have older databases from a previous version of the software, they'll need to be "renovated" before being opened. You'll be prompted automatically when this situation is recognized. Just follow the three steps for safely backing up, renovating, and opening your database.

Creating a database backup is optional but recommended, especially if you plan on ever using the older version of the software.



Opening a newer database

If you attempt to open a database that was created with a more recent version of The Compleat Botanica software, you'll see a message similar to this one. Newer versions of a database can only be opened with the newer version of the software.

The Compleat Botanica
The Helianthus database is in a newer format which is not compatible with 2003 Edition (Build 85) of The Compleat Botanica
Sorry, but this database can only be used with the newer version of the software.

Problems with opening a database

If you see the "Unable to open database" message window, you'll need to figure out what the problem is.

Step 1: Make sure you've selected a valid Compleat Botanica data source. (Note that not all data sources in the list are Compleat Botanica databases.)

Step 2: Both the Authentication ID and Password should be "Catalog".

Step 3: The SQL Server Desktop Engine should be automatically started. There is no need to troubleshoot this.

Step 4: Follow the steps for <u>Troubleshooting the</u> <u>ODBC configuration</u>. This is most likely to solve your problem.

nable to open database	X
The attempt to open the database has failed. Follow these troubleshooting steps, one at a tin	ne, and try again.
Troubleshooting Step 1	
Have you selected a valid Data Source for this application?	MyGardens 🔽
- Troubleshooting Step 2	Authentication ID:
Are the authentication ID and Password correct?	Catalog
	Authentication Password:

Troubleshooting Step 3	
Is the SQL Server Desktop Engine service running?	SQL Server Manager
Troubleshooting Step 4	
Does the ODBC entry for the Data Source test OK?	<u>ODBC Manager</u>
<u>I</u> ry again Cance	el

Compleat Botanica - Closing a database



Closing a database is optional. Whenever you exit from The Compleat Botanica software the database is automatically closed. The next time you start the software the same database is automatically reopened.

Occasionally you'll want to close a database so that you can perform some operation in the Data Manager utility. To close a database simply select the menu item.

Using the software Databases Operations

Your specimen are typically stored in a single database; however, there are times when you may want to create additional databases. For example, you may want to test a new feature of the software without worrying about losing data in your master database. Or you may want to keep your nursery specimen separated from your personal collection. You can create as many databases as you like.

You create a new specimen database either from the File menu of The Compleat Botanica program or from the **Create** button of the Data Manager utility. Here is the window you use to specify the new database name:

Create new Complea	Botanica database	×		
Data source				
Data <u>s</u> ource name:	Gaea			
	The ODBC name used when opening the database.			
Description:	Database of specimen			
	Additional descriptive text to help you distinguish one database from another.			
Database <u>n</u> ame:	Gaea_Database			
	The Desktop Engine name.			
Files				
Where should the database files be placed?				
C:\Database				
Options				
✓ Include botanical name checklist				
Include standard	d categories 👌 Close			

Field name	Description	
Data source name	The ODBC name used when opening the database. By default this is the name of your computer. Choose a more appropriate name.	

Description	Additional descriptive text to help you distinguish one database from another.
Database name	The Microsoft SQL Server Desktop Engine name. You will not use this name except in this window. This name is restricted to alphabetic characters.
Where should the database files be placed?	Choose a disk and directory name where the database will be placed. Each database consists of two files: a data file (with the extension .mdf) and a log file (with the extension of .ldf)
Include botanical name checklist	Leave this checkmark "on" to include the standard taxa entries. This is required for the botanical name spell-checker to work. Remove this check mark only if you are running low on disk space, or you want to use your our botanical name checklist.
Include standard categories	Leave this checkmark "on" to include the standard categories.

There are several things to watch out for:

The database creation process uses the "CBSample" database backup file as a template for the new database. If this file is missing, you will see this message. See the note about <u>Using the fast create option</u> for an alternate way to create a new database.

T	he Compleat Botanica	×
	The file "C:\Program Files\Compleat Botanica\Backup\CBSample.bak" doesn't exist. Please replace this file from your original and then try again.	CD
	[OK]	

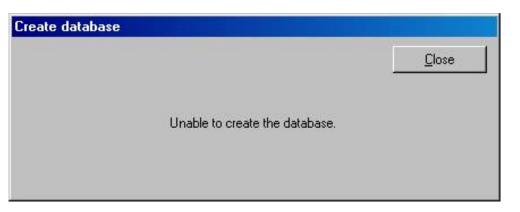


All database names must be different from one another.

Most of the special characters on the keyboard are not allowed in either the ODBC name or the database name.

The first character must be a letter from A to Z (numbers and underscores are allowed in the rest of the name.)





If you see this message, you've either specified an invalid name, or you don't have enough disk space for the new database, or the disk is readonly.



Deleting a database is simple, but if you ever want to restore the database be sure to back it up before deleting. The delete operation is permanent.

Delete Data Source		×
Data Source Name:	Specimen4]
Database Name:	Specimen4_Database]
Deleting this from the Rec	database is permanent. You cannot recover this database ycle Bin.	
Are you sure	you want to do this?	
	Yes <u>N</u> o	

Problems with deleting a database





It's essential to make a backup of your database whenever you've made changes to any of your specimen records. The backup process compresses your data and places it in a special format which can be used by the Restore database operation. Backing up a database is straightforward. Use the Data Manager utility or the backup option located in the File menu of The Compleat Botanica software.

Backup Database	×
A backup file can be u	sed to restore this database if it is lost or damaged; move this database to a different drive or directory; copy this database to a different computer.
To make a safe backu and filename where it s C:\DatabaseBackup\	
	<u>B</u> ackup Cancel

Problems with backing up a database

If you see this message, when attempting to backup a database, it's a signal indicating that the ODBC entry is no longer valid. You'll probably have to use the <u>ODBC Manager</u> utility to correct the situation before backing up.

This may occur if

you've reinstalled the
Microsoft SQL Server
Database Engine after
creating this database.

	database	
2	The attempt to open the database has failed. Follow these troubleshooting steps, one at a tim	ne, and try again.
Troubleshooting	Step 1	
Have you sele	cted a valid Data Source for this application?	MyGardens 🔽
Troubleshooting	Step 2	Authentication ID:
Are the auther	ntication ID and Password correct?	Catalog
		Authentication Password:
Troubleshooting	I Step 3	
Is the SQL Ser	ver Desktop Engine service running?	SQL Server Manager
Troubleshooting	Step 4	
Does the ODB	C entry for the Data Source test OK?	<u>ODBC Manager</u>

Compleat Botanica - Restoring a database from a previous backup



You can restore a database to it's active state by using the Data Manager utility or directly from within The Compleat Botanica software. Here's what the window looks like:

The second se	Texaster T	-	Constant of the second s
Filename	Date		Cance
	ackup\July 6, 2001 Jul 06, 2001-08:19 PM		
Use an <u>a</u> lternate bac	skup	- (200)	
C:X			
			-
			1
Where should the re	stored database <u>files be placed?</u>		
	stored database <u>files be placed?</u>	101	
Where should the re C:\Database	stored database <u>f</u> iles be placed?	1	
C:\Database			
	stored database <u>fi</u> les be placed? GAEA (July 6) The ODBC name used when opening the database.		
C:\Database	GAEA (July 6)		
C:\Database Data <u>s</u> ource name:	GAEA (July 6) The ODBC name used when opening the database.]	
C:\Database Data <u>s</u> ource name:	GAEA (July 6) The ODBC name used when opening the database. Database of specimen Additional descriptive text to help you distinguish one		
C:\Database Data <u>s</u> ource name: <u>D</u> escription:	GAEA (July 6) The ODBC name used when opening the database. Database of specimen Additional descriptive text to help you distinguish one database from another.]	

Field	Description
Restore from a recent backup	This list of recent backups is a convenient way to choose which database to restore. If the backup file is not in the list (for example, if the backup is coming from a different computer), use the alternate backup option.
Use an alternate backup	Type in the name of the backup file, or search your computer for the backup to be restored.
Where should the restored database files be placed?	This is a disk with adequate space for the restored file.
Data source name	The ODBC name used when opening the database. By default this is the name of your computer. This name does not need to be the same as your original name.
Description	Additional descriptive text to help you distinguish one database from another.
Database name	The Microsoft SQL Server Desktop Engine name. You will not use this name except in this window. This name is restricted to alphabetic characters. It must not be the same as any other active database.
Authorization ID	This is fixed at "Catalog" so that you will not be prompted for authorization each time you start the software.
Authorization Password	This is fixed at "Catalog" so that you will not be prompted for authorization each time you start the software.

Compleat Botanica - Special database issues

Using the software Databases Decial issues

Index to special database issues

0	The difference between database files and backup files	Your specimen data is stored in a special database format managed by Microsoft's SQL Server Desktop Engine.
0	Moving your database files	Your databases are stored in two special files which are managed by SQL Server Desktop Engine.
0	Using the fast create option	The fast create button is available only from within the Data Manager utility.
0	Attaching a database from a previous installation	The Attach button can be used in some emergency situations where otherwise valid database files become detached from the Microsoft SQL Server Desktop Engine.
0	The database version control utility	Each of the database tables used by The Compleat Botanica is identified with a version number.



i I

Your specimen data is stored in a special database format managed by Microsoft's SQL Server Desktop Engine. Using the create database command you can create extra databases for special needs. Each database is stored on your computer's hard disk using two files. One of these two files stores all of your data, the other is a transaction log file used to ensure that changes to the first file are always carried out without corruption.

	Data source			
ocation of two database	Data source name:	GAEA		_
s set by you	Data goardo Hamo.	Junen		
you create the	Database <u>n</u> ame:	GAEA_Database		
ase. The			71 - F	
base. The				
es of the two	Sec	فكولا تعتدر والمحادث والما		
es of the two s				
es of the two s natically				
es of the two s natically mined when	Files		laitel	Initial
is of the two s natically mined when ype in the	Files		Initial size of data	Initial size of log
es of the two s natically mined when		Jatabase files be placed?		Initial size of log file (Mb)
is of the two s natically mined when ype in the of the		Jatabase files be placed?	size of data	size of log

For the parameters shown above the two files would be like this:

	Folders	×	Name 🛆	Size	Туре	
	🗄 📻 Disk 1 Part A (C:)	_	🗃 GAEA_DatabaseData.mdf	60,032 KB	Database File	
s			🗃 GAEA_DatabaseLog.ldf	5,120 KB	Database File	
	ImportExport					
	🕂 💼 🛄 Inetpub					
	🗐 🕀 🔁 Office					
	PFE					
	🗄 💼 Program Files					
						Ľ
					<u>_</u>	· I

Caution: Do not attempt to move these two files using Windows Explorer. Moving these files to a different directory or a different disk will damage them so that you'll be unable to use your database. If you need to change their location follow the instructions for Moving your database files.

When you make a backup of your database, the two files are compressed into one special backup file. This backup file is suitable for use with the database restore operation.

	Backup Database		X	1		
When you make a backup copy of your database, the backup file can be placed in any directory on any drive.	 To make a safe backup of your datal and filename where it should be save D:\DatabaseBackup\GAEA.bak Unable to determine the estimated siz	copy this database to a dif base, specify the drive lett d:	different drive or directory; fferent computer.			
Note that this backup file can only be used with the <u>database restore</u> operation. It cannot be opened directly with the <u>database</u> <u>open</u> command.	Folders 4 x 9.1 Gb (D:) Database TotabaseBackup TotabaseBackup Grice FFE FFE Frogram Files	× Name △ ▲ GAEA.b	nak.	Size 55,315 KB	Type ▲ BAK File File	

Compleat Botanica - Moving your database files



Your databases are stored in two special files which are managed by SQL Server Desktop Engine. Do not attempt to move these files using Windows Explorer. If you've run out of disk space, or if you're upgrading your hard disk, or if you want to change the location of these two files for any reason, follow these instructions for backing up and restoring your database.

The overview of want you'll need to do to move your database files is simple:



Follow the instructions for each step as detailed in those documents. For step two, use a name for the restored database that's different from the original database name (all active databases must have distinguishing names). When restoring the backup file you can place the database on any drive or directory that has adequate space.



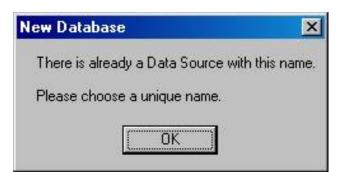
The fast create button is available only from within the <u>Data Manager utility</u>. It is used to create a new database without any taxonomic records. It does not use the "CBSample.bak" file as a template the way the normal create button does.

Here is the window you use to specify the new database name:

New Database		×
Data source		
Data <u>s</u> ource name:	Gaea	
	The ODBC name used when opening the database.	
Description:	Database of specimen	
	Additional descriptive text to help you distinguish one database from another.	
Database <u>n</u> ame:	Gaea_Database	
	The Desktop Engine name.	20
Files Where should the c	Initial size of data atabase files be placed?	Initial size of log file (Mb)
C:\Database	60	5
- Authorization		
Authorization <u>I</u> D:	Catalog)K
Authorization <u>P</u> assy	vord: Catalog Ca	ncel

Data source name	The ODBC name used when opening the database. By default this is the name of your computer. Choose a more appropriate name.
Description	Additional descriptive text to help you distinguish one database from another.
Database name	The Microsoft SQL Server Desktop Engine name. You will not use this name except in this window. This name is restricted to alphabetic characters.
Where should the database files be placed?	Choose a disk and directory name where the database will be placed. Each database consists of two files: a data file (with the extension .mdf) and a log file (with the extension of .ldf)
Initial size of data file (Mb)	The data file will grow in size as you add more specimen. It is safe to accept the default value of 60. Change this only if you know your database will be much larger or much smaller.
Initial size of log file (Mb)	The log file is used during lengthy import/export operations to safely stage the updating of your database. Accept the default value in all cases.
Authorization ID	This is fixed at "Catalog" so that you will not be prompted for authorization each time you start the software.
Authorization Password	This is fixed at "Catalog" so that you will not be prompted for authorization each time you start the software.

There are several things to watch out for



Most of the special characters on the keyboard are not allowed in either the ODBC name or the database name.

The first character must be a letter from A to Z (numbers and underscores are allowed in the rest of the name.)

	ew	Data	base
--	----	------	------

Data source names cannot contain any of the letters []{}(),;?*=!@\.

ÖK

Please change the name and try again.

 Close

 Unable to create the database.

If you see this message, you've either specified an invalid name, or you don't have enough disk space for the new database, or the disk is read-only.

×

All database names must be different from one another.

Compleat Botanica - Attaching a database from a previous installation



The Attach button can be used in some emergency situations where otherwise valid database files (*.mdf, *.ldf) become detached from the Microsoft SQL Server Desktop Engine. Typically this situation occurs only when you reinstall the SQL Server Desktop Engine software.

The Attach button is not the favored way of dealing with a reinstallation of SQL Server Desktop Engine. The safest process is to <u>create a backup</u> of your database, then reinstall the software, and finally <u>restore the backup</u> to the new installation.

The Attach button is available only from within the <u>Data Manager utility</u>. Here is the window you will use to perform this process:

A	tach database		×
Γ	Which detached MDF	and LDF database files do you want to re-attach?	<u>Attach</u>
	Data file (MDF) locatio	un:	Cancel
	D:\Database\My_Sp	ecimen_DatabaseData.mdf	
	Log file (LDF) location	:	
		ecimen_DatabaseLog.ldf	
			_
	Data <u>s</u> ource name:	My Specimen	
		The ODBC name used when opening the database.	
	Description:	Database of specimen	
		Additional descriptive text to help you distinguish one database from another.	
	Database <u>n</u> ame:	My_Specimen_Database	
		The Desktop Engine name.	
	Authorization [D:	Catalog	
	Authorization Passw	ord: Catalog	

Field name	Description
Data file (MDF) location	The full path and filename of the master database file containing the Compleat Botanica database needing to be re-attached.
Log file (LDF) location	The full path and filename of the log file associated with the above-specified database file.
Data source name	The ODBC name used when opening the database. By default this is the name of your computer. Choose a more appropriate name.

Description	Additional descriptive text to help you distinguish one database from another.
Database name	The Microsoft SQL Server Desktop Engine name. You will not use this name except in this window. This name is restricted to alphabetic characters.
Authorization ID	This is fixed at "Catalog" so that you will not be prompted for authorization each time you start the software.
Authorization Password	This is fixed at "Catalog" so that you will not be prompted for authorization each time you start the software.

There are several things to watch out for



All database names must be different from one another.

Most of the special characters on the keyboard are not allowed in either the ODBC name or the database name.

The first character must be a letter from A to Z (numbers and underscores are allowed in the rest of the name.)

New Database Data source names cannot contain any of the letters []{(),;?*=!@\. Please change the name and try again.

Attach database		
		<u>C</u> lose
	Unable to attach the database.	

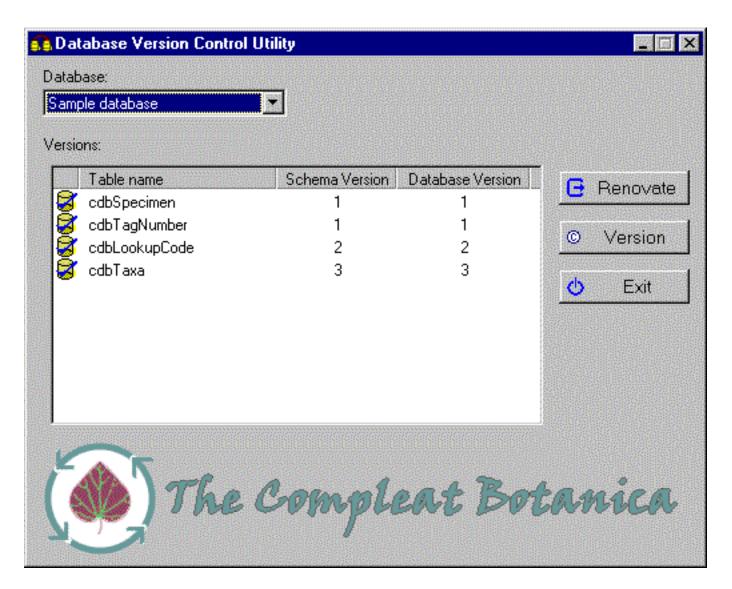
If you see this message, your database file is either corrupted and can't be used, or it's already attached to the SQL Server Desktop Engine.

Compleat Botanica - The database version control utility



Each of the database tables used by The Compleat Botanica is identified with a version number. As changes to the software are made, the version numbers increase. The Version utility will show you the current version numbers of each table in your database. This is may be useful in some troubleshooting situations. More importantly, this utility has the ability to update older databases to the current version used by the software.

If any of the tables is missing newer columns the **Renovate** button will safely add them to your active database.



Compleat Botanica - ODBC and MSDE



Index to ODBC and MSDE topics

0	What is the ODBC Manager?	The Open Database Connectivity (ODBC) Manager is a utility for adding, configuring, and deleting database names.
0	Eight steps to creating an ODBC data source	Use these instructions to create a data source directly using the ODBC Manager.
0	Troubleshooting the ODBC configuration	Use these instructions to test the validity of an existing ODBC data source.

Using the software 🕟 Databases 🕥 ODBC / MSDE

The Open Database Connectivity (ODBC) Manager is a utility for adding, configuring, and deleting database names. It contains a list of names (called *data sources*) used by many different database applications. Normally, The Compleat Botanica software handles the creation and deletion of data source entries in this list; however, when abnormal conditions occur this list can get out of synchronization with the true list of databases on your computer. If that happens, you'll need to make additions, changes, and deletions using this utility. Here is what version 3.520 of the ODBC Manager looks like:

Name NasterChecklist	Driver SQL Server	▲ <u>Add</u>
1ay16	SQL Server	<u>R</u> emove
lomotaro 15 Access Database	SQL Server Microsoft Access Driver (* mdb)	-
is Access Database lyGardens	Microsoft Access Driver (*.mdb) SQL Server	<u>C</u> onfigure
ample database	SQL Server	
pecimen4 'isual FoxPro Database	SQL Server Microsoft Visual FoxPro Driver	
isual FoxPro Tables	Microsoft Visual FoxPro Driver	
Vorkshop	SQL Server	-
	r data source stores information about ho	u la connect la

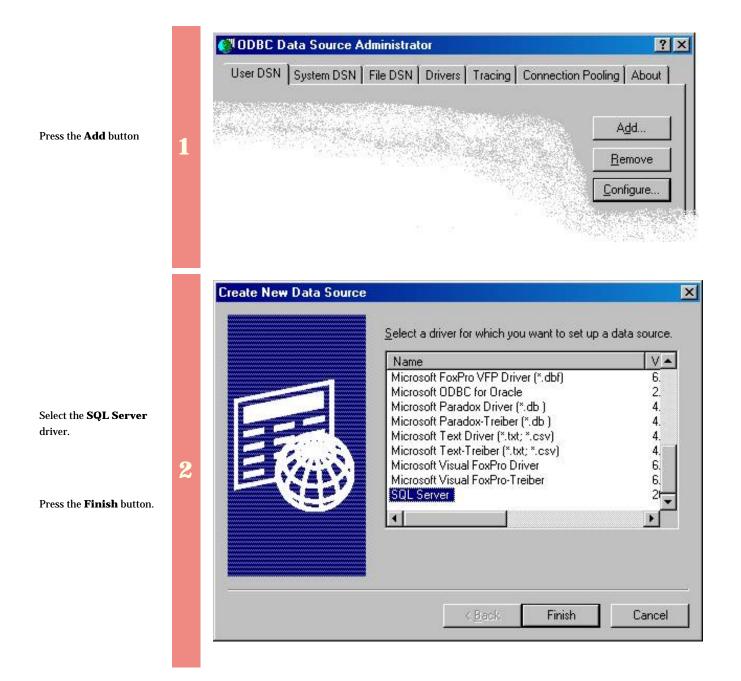
Each entry in the list is merely a reference to the actual data. Because of this, the creation and deletion of these references is autonomous with respect to the actual databases themselves; thus you can safely delete an entry in this list without affecting the actual database itself.

If you need to create a new entry in this list in order to make an existing database "visible", follow the <u>Eight steps to</u> <u>creating an ODBC data source</u>. If you need to correct a problem with an existing ODBC data source entry, check the

Caution: The full list of ODBC entries for your computer probably contains entries which have nothing to do with The Compleat Botanica. Making changes to those entries may affect the operation of other applications installed on your computer.



Use these instructions to create a data source directly using the ODBC Manager. This should be done only under abnormal conditions.



The Name is required.

The **Description** is optional.

Which SQL Server do you want to connect to? should be the SQL Server Desktop Engine with a name ending in "\CompleatBotanica" (The prefix is your computer name).

3

Create a New Data Source to SQL Server
--

States and a state of the state

Press the Next button.	

Select a driver row	connect to SQL Server. What name do you want to use to refer to the data source? Name: Penstemon
Microsoft Ear Microsoft ForPri Diolit ODBi Disort Pare Microsoft Ter SUL Serve	How do you want to describe the data source? Description: My private collection Which SQL Server do you want to connect to?
	Server: GAIA\CompleatBotanica
	Finish Next > Cancel Help

X

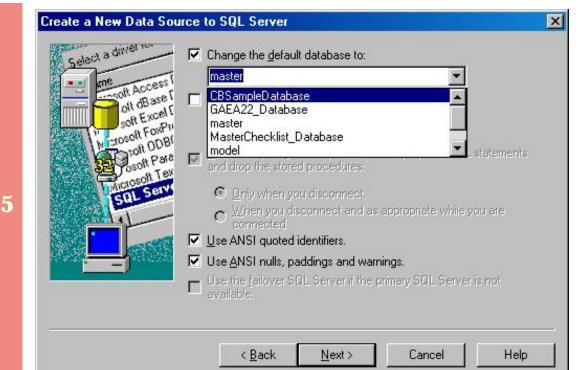
	Create a New Data Source to SQL Server
Click on the second button – "With SQL Server authentication using a login ID and password entered by the user." Change the Login ID to "sa" (This is the System Administrator ID).	4 4
Do not supply a Password .	Login ID: sa Password:
Press the Next button.	< <u>B</u> ack <u>N</u> ext > Cancel Help

Check the box labeled: "Change the default database to"

Use the drop-drop combo-box to select the existing database that you are making this ODBC entry for.

Leave all other buttons on this screen at their default values.

Press the Next button.

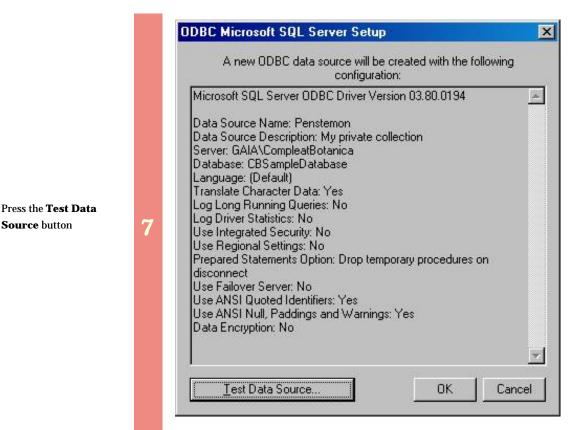


Select a diver ro	Change the language of SQL Server system messages to:
olt oburg	N 🗖 II.a. ahara ananakan karatata
CONTRACT AT A LOOK	· ·
A PE	18 — Use regional settings when outputting currency, numbers, dates
1 illow = 1 weiles and	presented.
SQL Set	Save long running queries to the log file:
- Hal-	C:\QUERY.LOG Blows
	Long query time (milliseconds):
	Log ODBC driver statistics to the log file:
	C:\STATS.LOG Brows

Leave all options on this screen as they are.

6

Press the **Finish** button.



	Test Results Microsoft SQL Server ODBC Driver Version 03.80.0194 Running connectivity tests	*
3	Attempting connection Connection established Verifying option settings Disconnecting from server TESTS COMPLETED SUCCESSFULLY!	
		¥

Verify that the "Tests Completed Successfully."

Press the **OK** button.

Susing the software Databases ODBC / MSDE

Use these instructions to test the validity of an existing ODBC data source. You may need to do this if the SQL Server Desktop Engine has been reinstalled, or if the data source name has gotten out of synchronization with the underlying database files.

Select the data source name to troubleshoot.

Press the **Configure** button

er DSN System DSN ser Data Sources:	File DSN Drivers Tracing Conr	nection Pooling Abou
Name	Driver	Add
Hello	SQL Server	
MasterChecklist	SQL Server	Remove
May16	SQL Server	
Momotaro	SQL Server	Configure.
MS Access Database	Microsoft Access Driver (*.mdb)	
MyGardens	SQL Server	
Penstemon	SQL Server	
Sample database	SQL Server	
Specimen4	SQL Server	
Visual FoxPro Database	Microsoft Visual FoxPro Driver	
Visual FoxPro Tables	Microsoft Visual FoxPro Driver	•

	Selact a diverto	This wizard will help you create an ODBC data source that you can use to connect to SQL Server.
	off dBase f	What name do you want to use to refer to the data source?
	Soft Excert	Name: MyGardens How do you want to describe the data source?
	SUL Serve	Description: Taxonomic database of plants
2	She	Which SQL Server do you want to connect to?
		Finish Next > Cancel Help

The Name is required.

The **Description** is optional.

Which SQL Server do you want to connect to? should be the SQL Server Desktop Engine with a name ending in "\CompleatBotanica"(The prefix is your computer name).

Press the Next button.

	Microsoft SQL Server DSN Configuration	×
Ensure that the second button is selected – "With SQL Server authentication using a login ID and password entered by the user."	 How should SQL Server verify the authenticity of the login ID? With Windows NT authentication using the network login ID. With SQL Server authentication using a login ID and password entered by the user. To change the network library used to communicate with SQL Server, click Client Configuration. 	
Ensure that the Login ID is "sa" (This is the System Administrator ID).	3 Client Configuration Client Configuration Image: Connect to SQL Server to obtain default settings for the additional configuration options.	
Ensure that the Password is empty.	Login ID: sa Password:	
Press the Next button.	< <u>B</u> ack <u>Next></u> Cancel Help	

Ensure that the box
labeled: "Change the
default database to"
is checked.

Use the drop-drop combo-box to select the existing database that you are making this ODBC entry for.

4

Leave all other buttons on this screen at their default values.

Press the Next button.

Selact a driver ro	Change the default database to:	
me me seess	MyGardens_Database	
olt dBase I	Attach database filename:	
soft Excert		
Microsoft ODB osult Para Microsoft Tex	Create temporary stored procedures for prepared SQL statement and drop the stored procedures;	ts
Sol Serv	C Driv when you disconnect. $\sim \frac{W}{connect}$ and as appropriate while you are connected.	
	☑ Use ANSI quoted identifiers.	
	Use ANSI nulls, paddings and warnings.	
	Use the failover SQL Server if the primary SQL Server is not available.	
3 		
	< Back Next> Cancel He	

This message means that the database you've selected is no longer valid. You should delete this ODBC data source name and restore a backup copy of your database.



	Select a driver no	Change the language of SQL Server system messages (to:
	soft dBase soft Excel [with rosell FoxPri bioti DDBi V] Soft Para	English Use strong encryption for data Perform translation for character data Use regional settings when outputting currency, number times. Save long running queries to the log file:	s, dates and
6		<u>C:\QUERY.LOG</u> <u>Long query time (milliseconds)</u> Log <u>O</u> DBC driver statistics to the log file:	Browse 30000
		C:\STATS.LOG	Bro <u>w</u> se
		< Back Finish Cancel	Help

Leave all options on this screen as they are.

Press the **Finish** button

7

Press the **Test Data Source** button.

A new i	JDBC data :	source will be configuratio	created with th on:	e following	
Data Source I	Name: MyG Description: CompleatBo	ardens Taxonomic da otanica	ion 03.80.019 Itabase of plan		1
Language: (D Translate Cha Log Long Rur Log Driver St. Use Integrate Use Regional Prepared Stal disconnect	inacter Data: nning Querie atistics: No d Security: N Settings: No	es: No No o	orary procedur	es on	
Use Failover : Use ANSI Qu	oted Identifi II, Paddings	ers: Yes and Warnings	:Yes		

		SQL Server ODBC Data Source Test	×
		Test Results	The second se
		Microsoft SQL Server ODBC Driver Version 03.80.0194	<u>_</u>
		Running connectivity tests	
		Attempting connection Connection established	
Verify that the "Tests Completed Successfully."		Verifying option settings Disconnecting from server	
Press the OK button.	8	TESTS COMPLETED SUCCESSFULLY!	
			-
		OK	