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Explore the possibilities[Knowledge Base](#) / [Miscellaneous](#) / [How to Connect to Snowflake from Alteryx](#)

How to Connect to Snowflake from Alteryx

 Created/Edited - 7/31/2023 by Samantha Clifton

How To

How to Connect to Snowflake from Alteryx

Prerequisites

You will need an instance of Snowflake to achieve this, if you do not yet have one and are looking to try this, you will need to [request a trial \(https://signup.snowflake.com/\)](https://signup.snowflake.com/) from Snowflake.

Procedure



Installing Snowflake Drivers and connecting to your database for the first time.

Mission Control

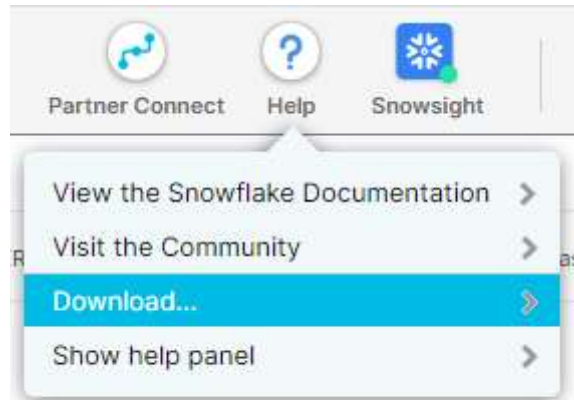
(<https://my.alteryx.com/dashboard>)

[Knowledge Base](https://knowledge.alteryx.com/index/s/)

Installing Snowflake Driver

(<https://knowledge.alteryx.com/index/s/>)


1. Simple way to do this when you have access to Snowflake is from the Snowflake platform click on the following: **Help**, then **Download** the following box appears




2. Click on **ODBC Driver**, then **Snowflake Repository**.

Downloads

CLI Client (snowsql)	
JDBC Driver	
ODBC Driver	ODBC Driver Download the latest version of the Snowflake ODBC driver for your platform from the Snowflake Repository . For prerequisites, installation and configuration details, see the Snowflake Documentation .
Python Components	
Node.js Driver	
Spark Connector	
Go Snowflake Driver	
SnowCD	

 Snowflake Repository
Linux, Windows, macOS

 Snowflake GPG Public Key
For Linux RPM and DEB

Done

Alternatively, use this link to get to the ODBC Repository.

3. In the repository, navigate to the best driver for your machine.

Index of odbcs/

Mission Control

(https://my.alteryx.com/dashboard)

Knowledge Base

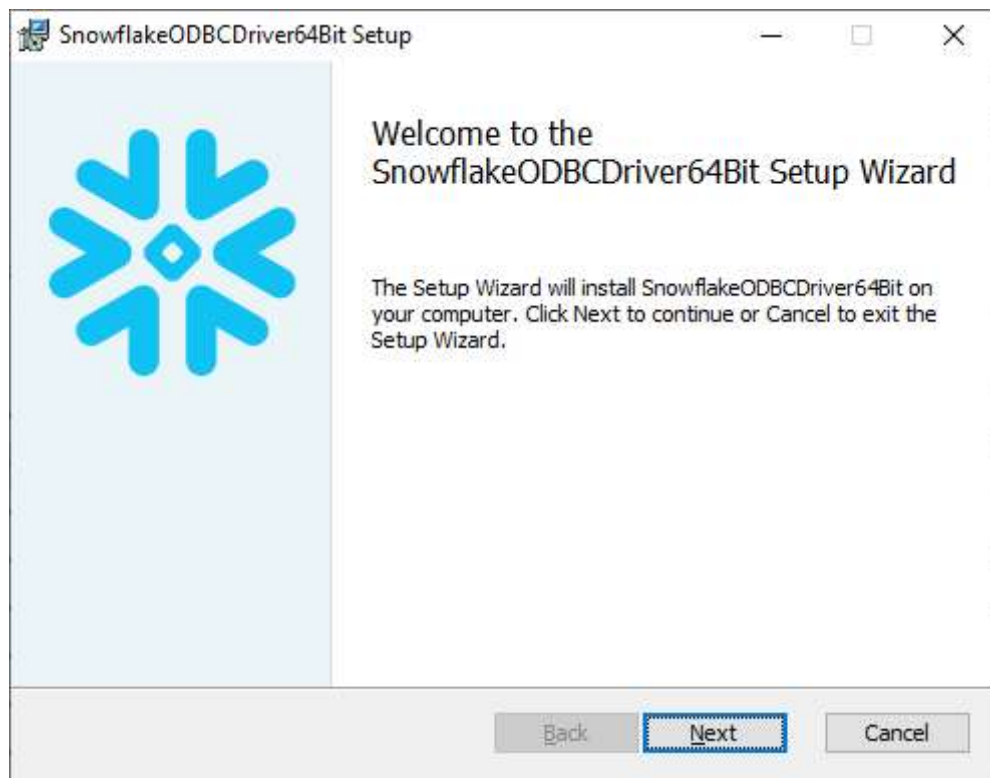
(https://knowledge.alteryx.com/index/s/)

Filename	Last modified	Size	SHA256
linux	-	-	-
linuxaarch64	-	-	-
mac64	-	-	-
macaarch64	-	-	-
win32	-	-	-
win64	-	-	-

4. Download the .msi file.

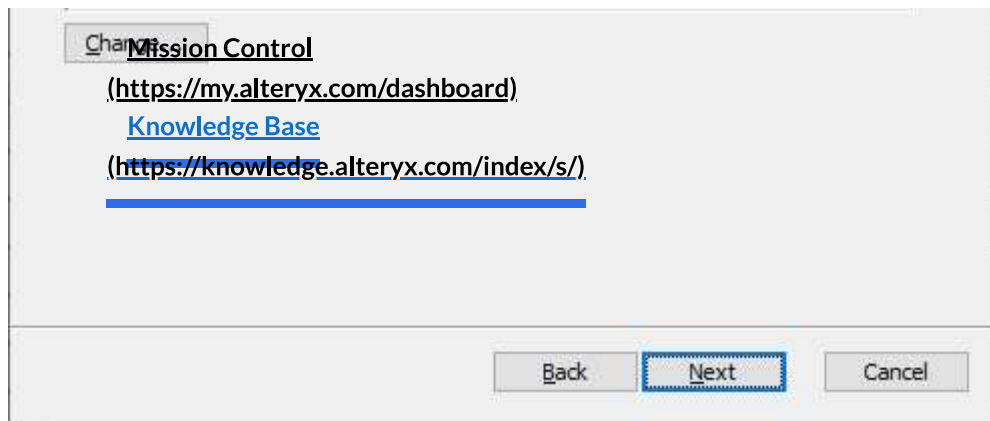
5. Once downloaded, run the installer to install the driver.

6. Click **Next**.

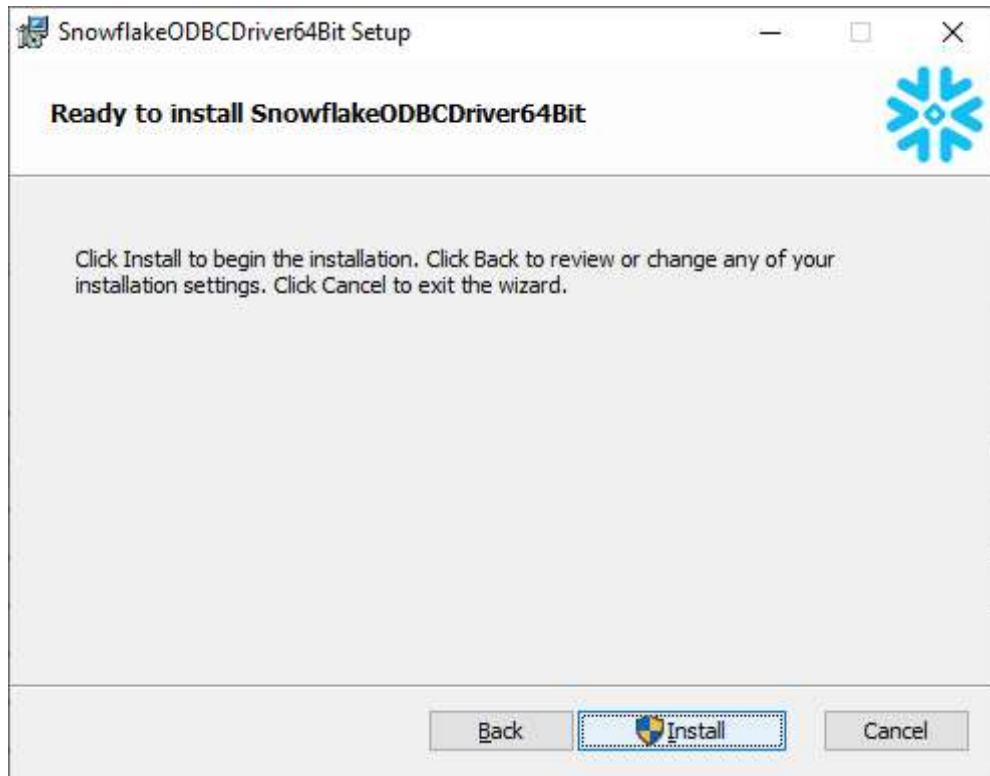


7. Choose where you would like to install your driver, default is great. Then click **Next**.





8. Click **Install**.

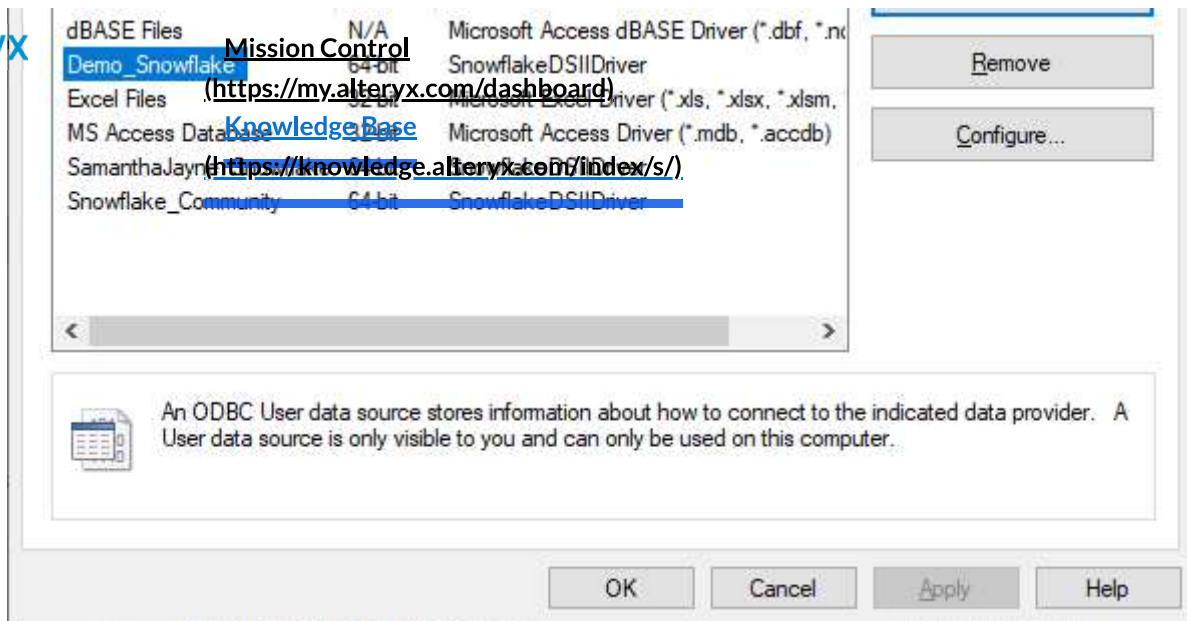


9. Once the drive is installed, you will need to set up your connection via ODBC Administrator.

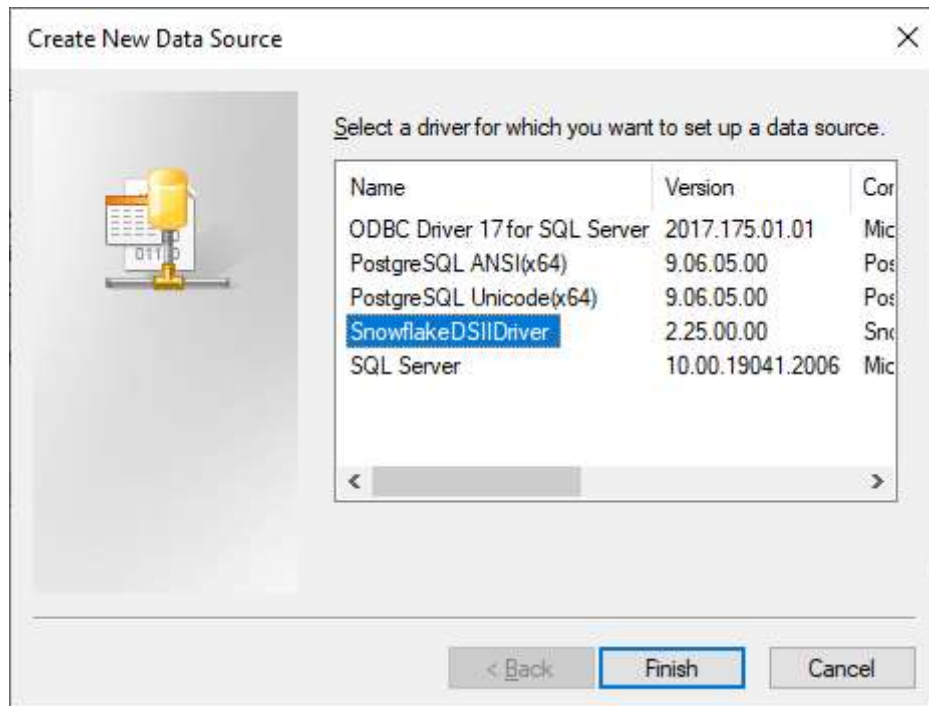
Setup Connection

1. Go to the ODBC Data Sources (64-bit) on your machine and click **Add**.

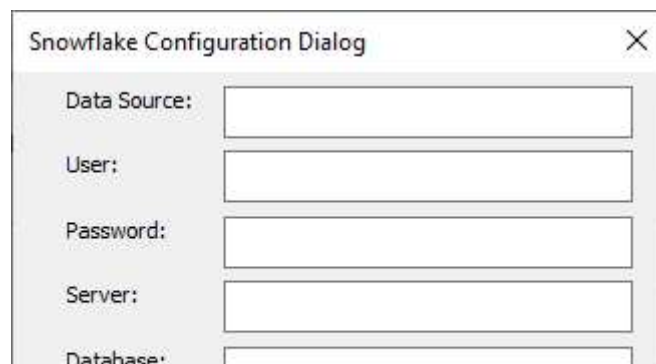




2. Select SnowflakeDSIIDriver and click **Finish**.



3. Enter all the relevant details to connect to Snowflake.





Mission Control

Schema:

(<https://my.alteryx.com/dashboard>)

Knowledge Base

(<https://knowledge.alteryx.com/index/s/>)

Role:

Tracing(0-6):

Authenticator:

Proxy:

NoProxy:

Test...

OK

Cancel

Data Source:	Required	Give your connection a name
User	Required	Your Username
Password	Required	Your Password
Server	Required	The part of your snowflake server address before and including this: .snowflakecomputing.com and after the https:// Do not include (https://) this as it already adds it in for you.
Database	Required	The name at the top of your worksheet, next to the database symbol
Schema	Required	Your schema name is the one by the star network symbol on your worksheets
Warehouse	Required	Top right on your worksheets, 2 nd one in.
Role	Required	Top right on your worksheets, 1 st option.
Tracing	Required	Set it at 3
Authenticator	Dependent on your environment	Leave blank or ExternalBrowser if you need to authenticate in a browser. This is not the best option for Alteryx automation, so best to start a conversation with IT now, if this is the case.
Proxy	Dependent on your	Your internal IT will be able to

	Mission Control (https://my.alteryx.com/dashboard)	environment	support here if you are unable to connect.
NoProxy	Knowledge Base (https://knowledge.alteryx.com/index/s/)	Dependent on your environment	Your internal IT will be able to support here if you are unable to connect.

3. Always test your connection before you close the ODBC manager, then you know at this stage if it is going to work. You will need to type your password into Alteryx when you set it up in an input tool or a managed InDB connection. Please keep it handy for a few more minutes.

Connecting to Snowflake in Alteryx

A. Connecting to Snowflake using the Input Data tool

1. Add an Input tool to the workflow and select **Snowflake** in data sources.
2. Select the relevant ODBCdata source and enter the user name and password.

3. Upon successful login, you will see the **Visual Query Builder**. You can now visually or use SQL to build your queries.



Mission Control
<https://my.alteryx.com/dashboard>
Knowledge Base
<https://knowledge.alteryx.com/index/s/>

Visible	Expression	Colu...	Sort Type	Sort Order	Aggregate	<input type="checkbox"/> Grouping	Crit
<input checked="" type="checkbox"/>						<input type="checkbox"/>	

☐ Open Visual Query Builder view by default

OK

Cancel

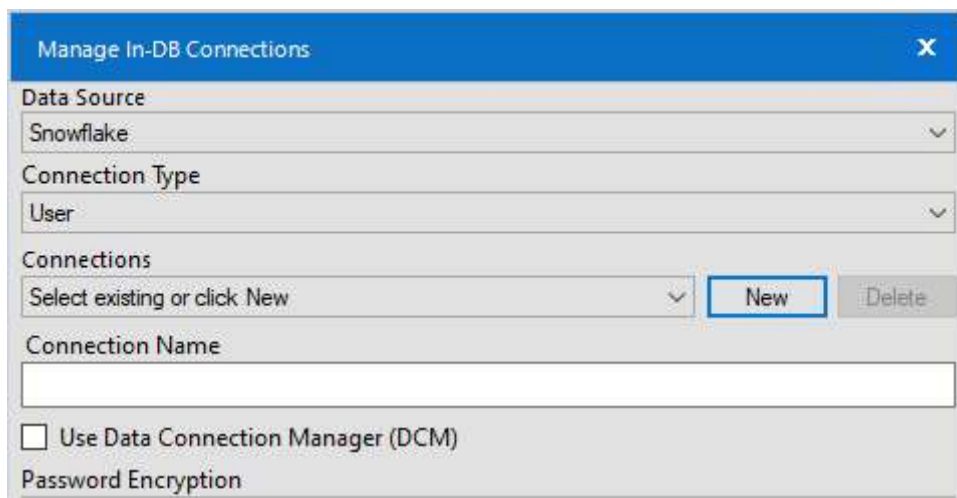
Help

B. Connecting to Snowflake using the Connect In-DB tool

1. Add a Connect In-DB tool to the workflow and head over to the configuration and select **Manage Connections** from the dropdown.



2. Select **Snowflake** from the **Data Source** drop down and select **New** next to **Connections** drop down and give a name in **Connection Name**.



The screenshot shows the 'Mission Control' dialog box in Alteryx. The 'Read' tab is selected. The 'Driver' is set to 'Snowflake ODBC'. The 'Connection String' field is empty. The 'Options' table is as follows:

Name	Value
1 Table/FieldName SQL Style	Quoted
2 Read Uncommitted	<input type="checkbox"/>

Buttons at the bottom: OK, Cancel, Apply, Help.

3. Select the **Connection String** drop down in the Read tab and select **New data connection**. If there are recent connections, it will be shown here. You may select that.

The screenshot shows the 'Read' tab of the Alteryx Read/Write dialog box. The 'Driver' is set to 'Snowflake ODBC'. The 'Connection String' field is empty. The 'Options' table is as follows:

Name	Value
1 Table/FieldName SQL Style	Quoted
2 Read Uncommitted	<input type="checkbox"/>

Buttons at the bottom: OK, Cancel, Apply, Help.

Mission Control<https://my.alteryx.com/dashboard>

4. Select the relevant **ODBC data source** and enter the username and password and click **OK**.

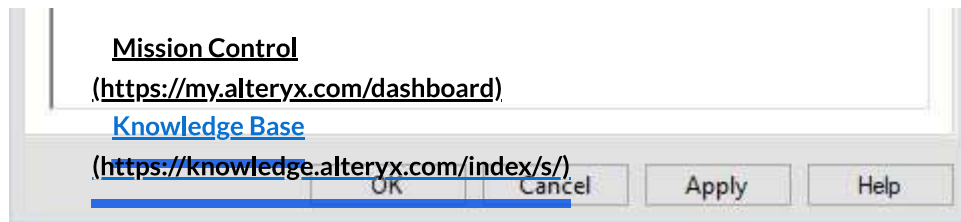
[Knowledge Base](https://knowledge.alteryx.com/index/s/)<https://knowledge.alteryx.com/index/s/>

The screenshot shows the 'Snowflake ODBC Connection' dialog box. It has a blue header bar with the title and a close button. Below the header, there is a 'Snowflake Data Source Name' dropdown menu with 'Demo_Snowflake (User)' selected. Underneath, there are two input fields: 'User Name' with the text 'Username' and 'Password' with masked characters '*****'. At the bottom, there are three buttons: 'ODBC Admin', 'OK', and 'Cancel'.

5. For the Write tab, you can repeat steps 3 and 4. Or, you can set up the Snowflake Bulk Loader. This is recommended for the speed of pushing data into Snowflake. To use the bulk loader, select **Snowflake Bulk Loader** in the Driver and click the **Connection String** drop down.

The screenshot shows the 'Manage In-DB Connections' dialog box. It has a blue header bar with the title and a close button. Below the header, there are several sections: 'Data Source' with a dropdown menu showing 'Snowflake'; 'Connection Type' with a dropdown menu showing 'User'; 'Connections' with a dropdown menu showing 'Select existing or click New', and buttons for 'New' and 'Delete'; 'Connection Name' with an empty text field; a checkbox for 'Use Data Connection Manager (DCM)'; 'Password Encryption' with a dropdown menu showing 'Encrypt for User'; and two tabs, 'Read' and 'Write', with 'Write' selected. Under the 'Write' tab, there is a 'Driver' dropdown menu showing 'Snowflake Bulk Loader', a 'Connection String' text field with a dropdown arrow, and an 'Options' section with a table.

	Name	Value
1	Table/FieldName SQL Style	Quoted
2	Size of Bulk Load Chunks (1 MB to 102400 MB)	128



6. Unless you have a specific named stage or an S3 bucket, just click **Local & User Stage**, this means it will work under your user profile on Snowflake.

A screenshot of the 'Snowflake Bulk Connection' dialog box. The 'ODBC Data Source' section shows 'Data Source Name' as 'Demo_Snowflake (User)' and an 'ODBC Admin' button. The 'User Name (Optional)' field contains 'Username' and the 'Password (Optional)' field contains '*****'. The 'Staging Method' section has two tabs: 'Amazon S3' and 'Local'. Under the 'Local' tab, there are three radio buttons: 'User Stage' (selected), 'Table Stage', and 'Internal Named Stage'. Below the radio buttons is an empty text input field. At the bottom right are 'OK' and 'Cancel' buttons.



Additional Information

Mission Control

- Snowflake Support on Windows ODBC (dashboard) (<https://my.alteryx.com/boards/snowflake.com/en/user-guide/odbc-windows.html>)
 - Alteryx Data Sources (<https://help.alteryx.com/20221/designer/data-sources>)
- (<https://knowledge.alteryx.com/index/s/>)

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