

CDATA Connectors

Overview

CDATA drivers provide connectivity to a huge range of data platforms, including databases and cloud-based applications. You can find more information [here](#).

Install

Here are the steps to install a CDATA connector in Yellowfin.

In this example, Yellowfin is running on a Windows Server and we are using the CDATA Jira Connector.

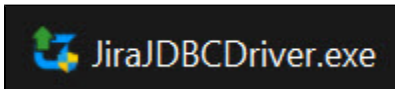
The two primary steps involved are as follows:

1. Download the CDATA driver and add it to your Yellowfin installation folder.
2. Create a new data source connection to your Jira environment within Yellowfin - after which you can create a View against the Jira data source and build reports in the normal way in Yellowfin.

Download CDATA Jira driver

1. Download the JDBC driver from the CDATA website.

In our example we are using the Jira connector from the following URL: <https://www.cdata.com/drivers/jira/download/jdbc/>



There are three downloads for each driver:

.exe

.zip

.dmg

Please note that if you are planning to use a trial license, only the .exe file will deploy the trial license file.

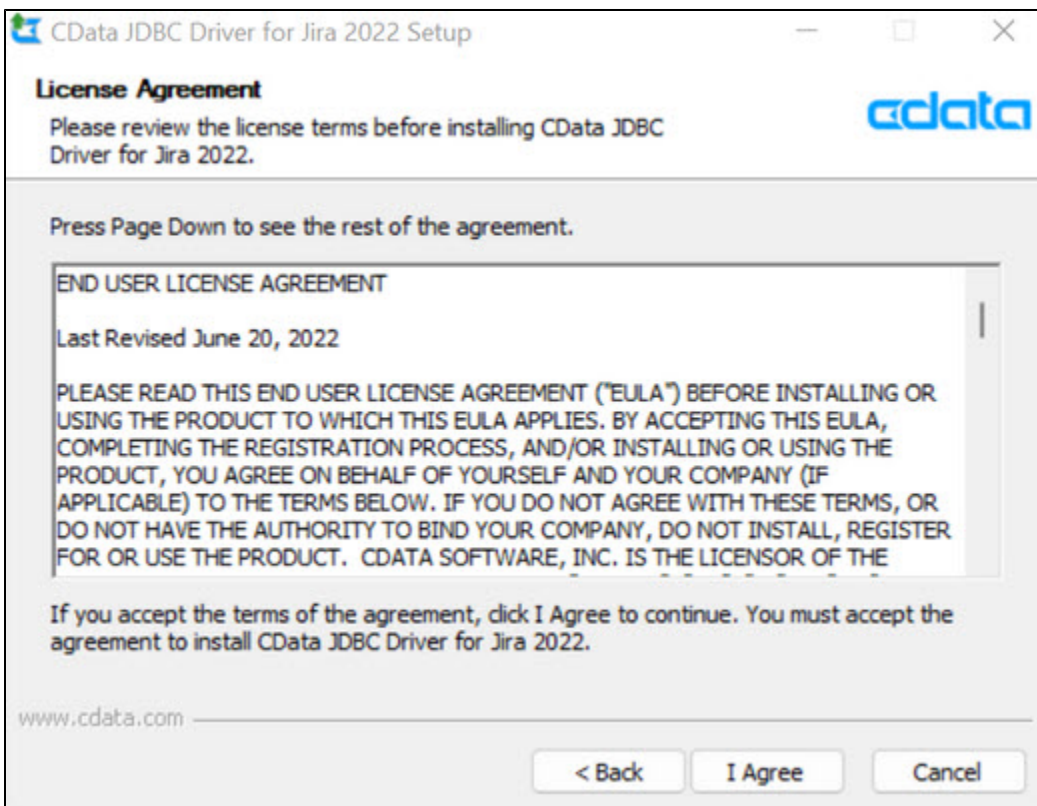
Steps for the **.exe** and **.zip** files are included below.

2a. Run the .exe file.

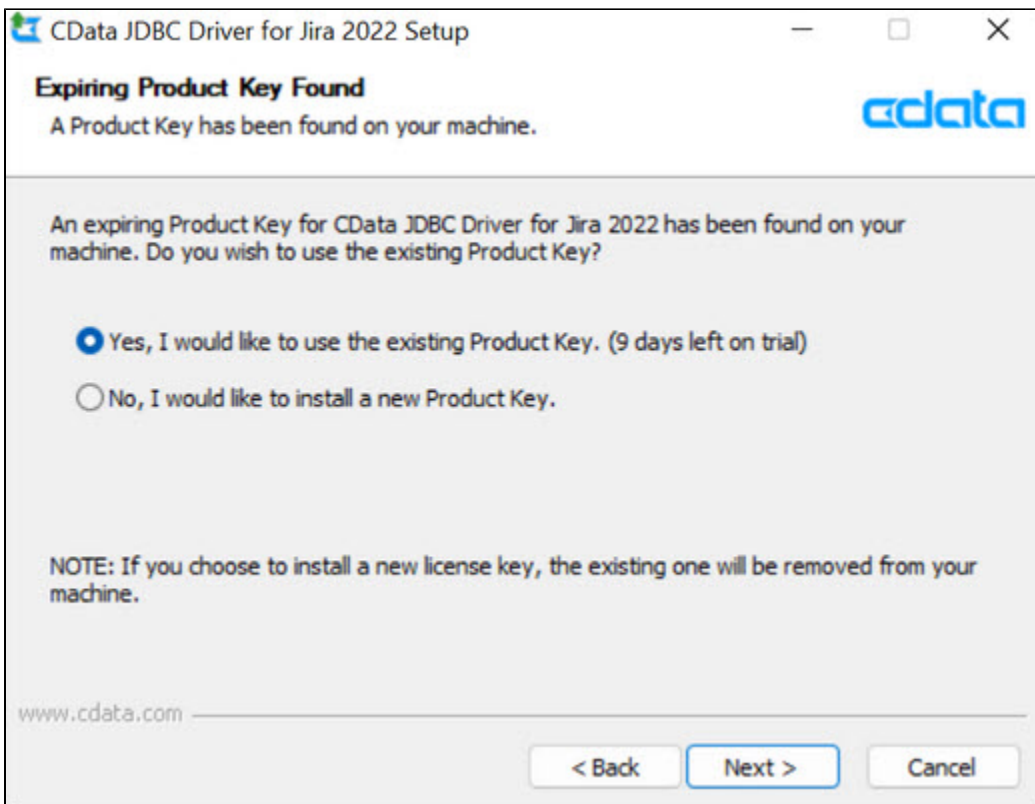
This step will install the drivers to a specified location. Follow the prompts and specify the folder where you want to install the driver.



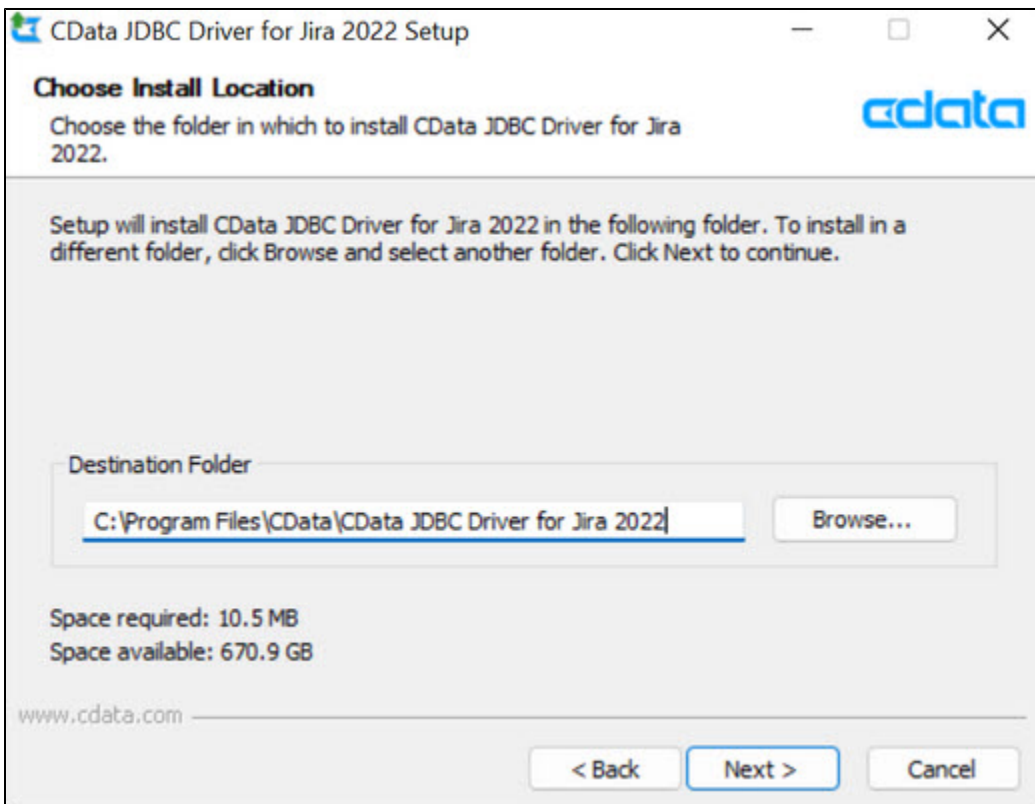
Review the License Agreement as required.



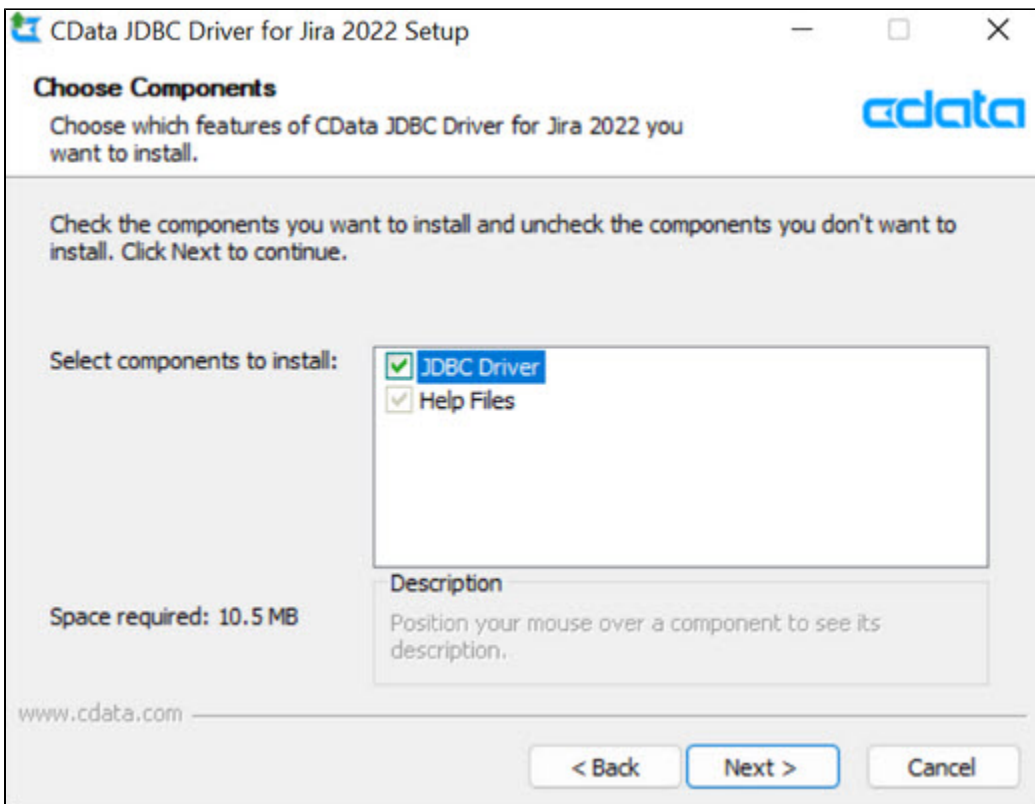
If you have an existing Product Key you may choose to use it, otherwise a new Product Key is required. A new license key will replace the existing key.



Select the destination folder.



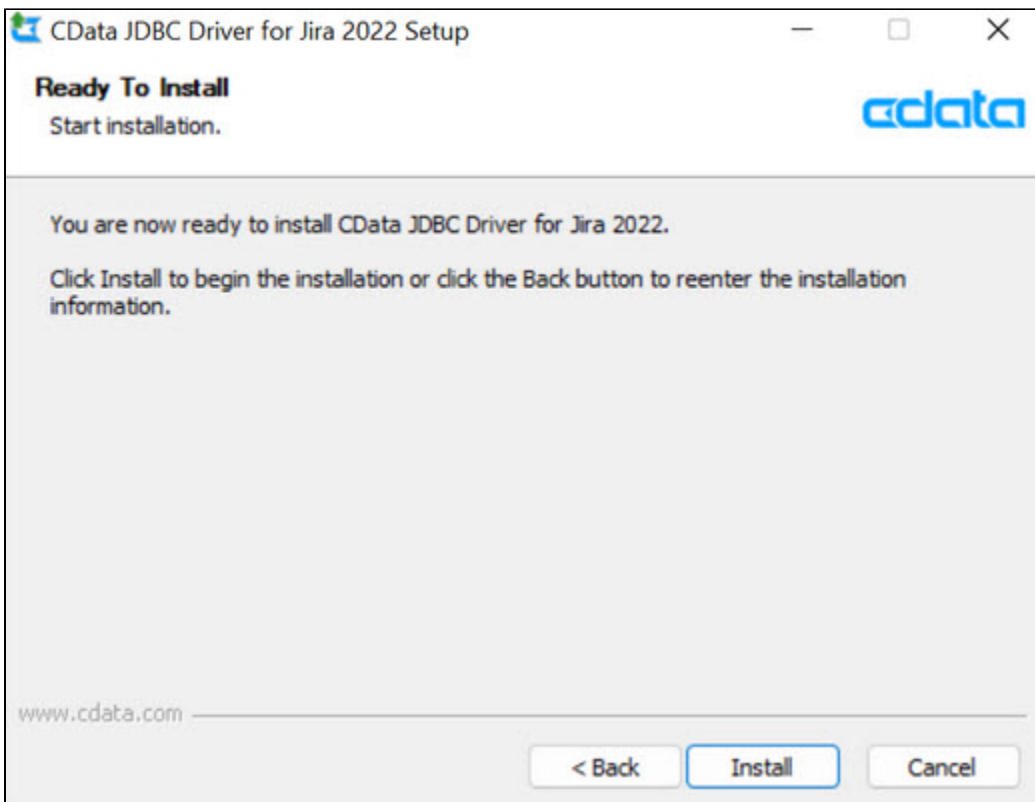
Select the available components to be installed.



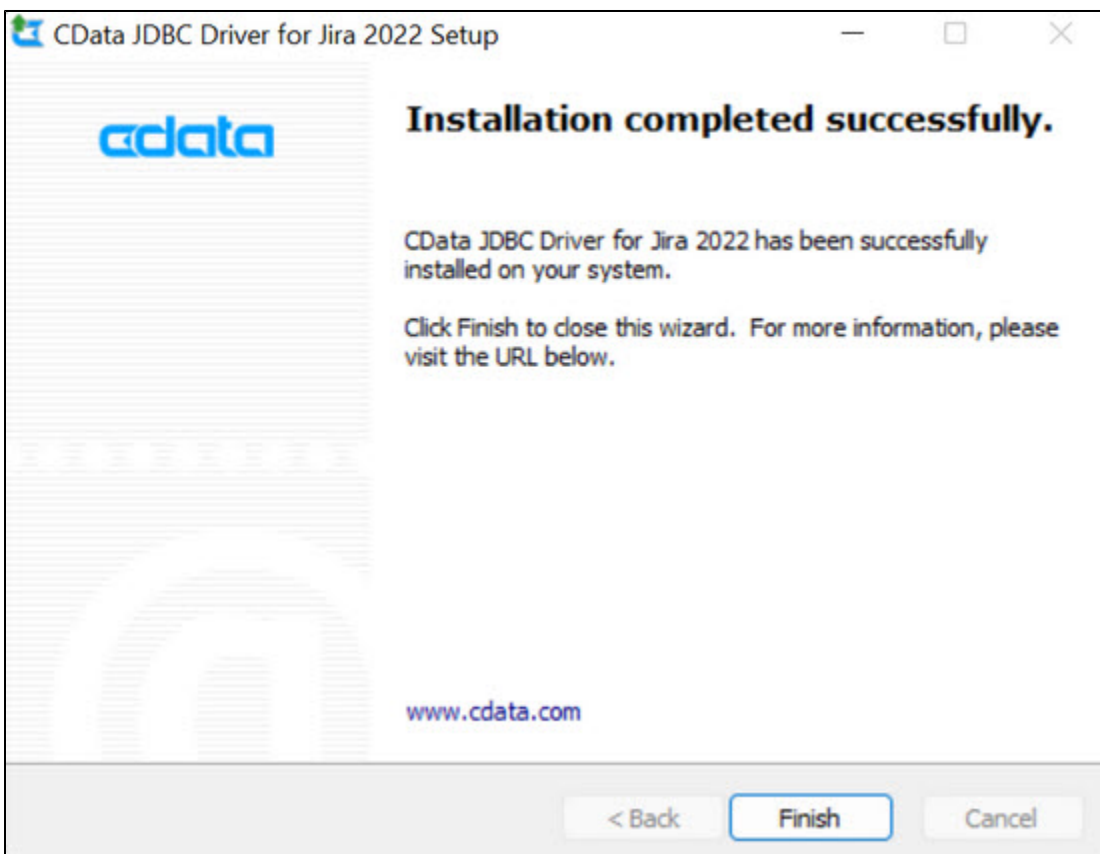
Select a shortcut in the start menu folder.



Select Install to proceed with the installation.



Once the driver is installed, click Finish to complete the installation.



2b. Steps for .zip file

Once you have downloaded the zip file, you will need to unpack it to a directory on your computer.

Jira JDBC > lib						Search lib
Name	Status	Date modified	Type	Size		
cdata.jdbc.jira.jar	✓	13/01/2023 10:11 AM	Executable Jar File	8,520 KB		
cdata.jdbc.jira.remoting.ini	✓	13/01/2023 10:11 AM	Configuration sett...	2 KB		

As you can see, the .lic file is not included. To deploy the license file, follow these steps.

Open a command prompt and navigate to the lib folder of the directory where you unpacked the files.

Run the command:

```
java -jar cdata.jdbc.{product}.jar -license
```

You need to replace the {product} keyboard to be consistent with the .jar file in your directory.

For Jira, this would be:

```
java -jar cdata.jdbc.jira.jar -license
```

This process will create a cdata.jdbc.jira.lic file.

```
C:\Users\ekaut\OneDrive\Desktop\Jira JDBC\lib>java -jar cdata.jdbc.jira.jar -license
Please enter your name and email address:
Name: Edgar Kautzner
Email Address: edgar.kautzner@minerra.net

Please enter your Product Key:
(you may use "TRIAL" as the product key to activate a trial license)
Product Key: TRIAL

Downloading license data...
Verifying license data...
License installation succeeded.

Press any key to exit...
```

As you can see, the .lic file will now be included in the directory.

Name	Status	Date modified	Type	Size	
cdata.jdbc.jira.jar	✓	13/01/2023 10:11 AM	Executable Jar File	8,520 KB	
cdata.jdbc.jira.lic	✓	13/01/2023 10:20 AM	LIC File	1 KB	
cdata.jdbc.jira.remoting.ini	✓	13/01/2023 10:11 AM	Configuration sett...	2 KB	

Steps to install JDBC driver to your Yellowfin installation

There are two methods to add the driver to your Yellowfin installation:

- Manual method
- Via Plugin Management in the yellowfin user interface

3a. Manual Method

Navigate to the folder where the driver is installed (default directory is CData\CData JDBC Driver for Jira 2022\lib) and copy the .lic file and ALL .jar files.

In this example, we would copy the following two files:

This PC > OS (C:) > Program Files > CData > CData JDBC Driver for Jira 2022 > lib			
Name	Date modified	Type	Size
cdata.jdbc.jira.jar	10/08/2022 7:35 PM	Executable Jar File	8,148 KB
cdata.jdbc.jira.lic	27/10/2022 11:09 AM	LIC File	1 KB

Paste the files into the Yellowfin/appserver/webapps/ROOT/WEB-INF/lib/ directory.

This PC > OS (C:) > Yellowfin9WStest > appserver > webapps > ROOT > WEB-INF > lib			
Name	Date modified	Type	Size
animal-sniffer-annotations-1.14.jar			
axis.jar			
batik-all-1.12.jar			
bcprov-jdk15on-164.jar			
big-math-2.0.1.jar			
cache-api-1.1.0.jar			
<input checked="" type="checkbox"/> cdata.jdbc.jira.jar			
<input checked="" type="checkbox"/> cdata.jdbc.jira.lic			


Edit the web.xml file (located under Yellowfin/appserver/webapps/ROOT/WEB-INF/) and add the following parameter to the driver list:


cdata.jdbc.jira.JIRADriver

Ensure this is added after the following tags:

`<param-name>JDBCDrivers</param-name><param-value>`

```
<init-param>
  <param-name>JDBCDrivers</param-name>
  <param-value>
    com.connectioncloud.jdbc.Driver,
    cdata.jdbc.jira.JIRADriver,
    com.ddtek.jdbc.openedge.OpenEdgeDriver,
    com.filemaker.jdbc.Driver,
    com.hof.mi.database.jdbc.ColumnarDriver,
    com.hof.mi.jdbc.driver.HiveJDBC,
```

 Remember to add a comma at the end of the driver string.

 Note that it is necessary to restart the Yellowfin service for this to take effect.

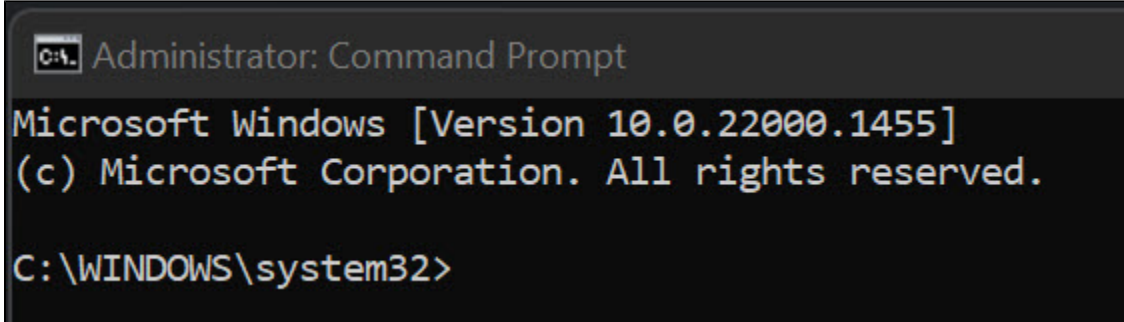
3b. Via Plugin Management in the Yellowfin user interface

There are two steps to add the CDATA driver via the Yellowfin Plugin Management interface:

1. Add the .lic file into the .jar file
2. Add all .jar files via Plugin Management

Add the .lic file into the .jar file

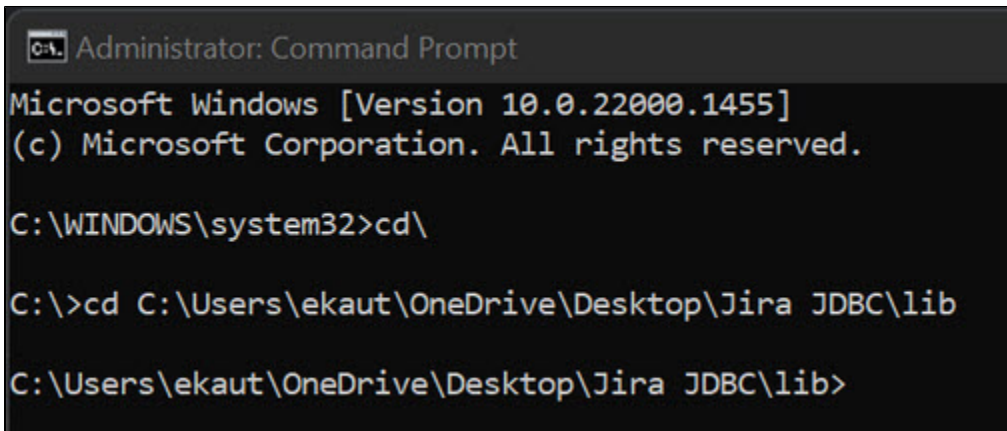
Open a command prompt window in **Administrator mode**.



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.1455]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>
```

Navigate to the folder with your driver .jar files and .lic file.



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.1455]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd\

C:\>cd C:\Users\ekaut\OneDrive\Desktop\Jira JDBC\lib

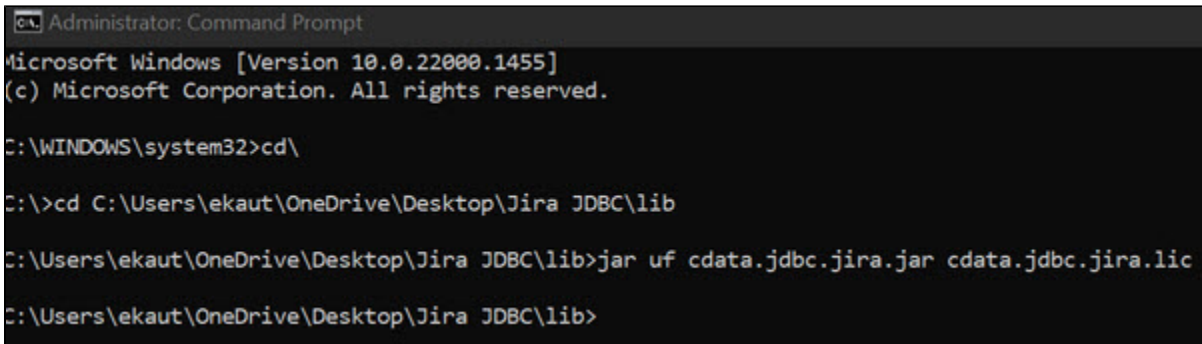
C:\Users\ekaut\OneDrive\Desktop\Jira JDBC\lib>
```

Run the following command:

```
jar uf jar-file input-file(s)
```

For example:

```
jar -uf cdata.jdbc.rest.jar cdata.jdbc.rest.lic
```



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.1455]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd\

C:\>cd C:\Users\ekaut\OneDrive\Desktop\Jira JDBC\lib

C:\Users\ekaut\OneDrive\Desktop\Jira JDBC\lib>jar uf cdata.jdbc.jira.jar cdata.jdbc.jira.lic




C:\Users\ekaut\OneDrive\Desktop\Jira JDBC\lib>
```

Your .lic file has now been added to the .jar file.

Add all .jar files via Plugin Management

Now we need to add the .jar files via plugin management

Navigate to Administration Plugin Management in the Yellowfin console


Plugin Management			
			✕
Name	Description	Type	
<input type="checkbox"/>  Example Filter		PLUGIN	
<input type="checkbox"/>  Google Analytics		PLUGIN	
<input type="checkbox"/>  Salesforce		PLUGIN	

Click Add and provide your driver with a name.

New Plugin✕

CDATA Jira Driver

CDATA REST driver for Jira



Drag a Plugin file here (.jar/.yfp)


Cancel

Drag the .jar file you added the .lic to in the previous steps.

New Plugin

CDATA Jira Driver

CDATA REST driver for Jira

 cdata.jdbc.jira.jar

+ Add more

Submit

IMPORTANT - If there are more .jar files in the lib folder you downloaded from CDATA, you need to add all of these before continuing.

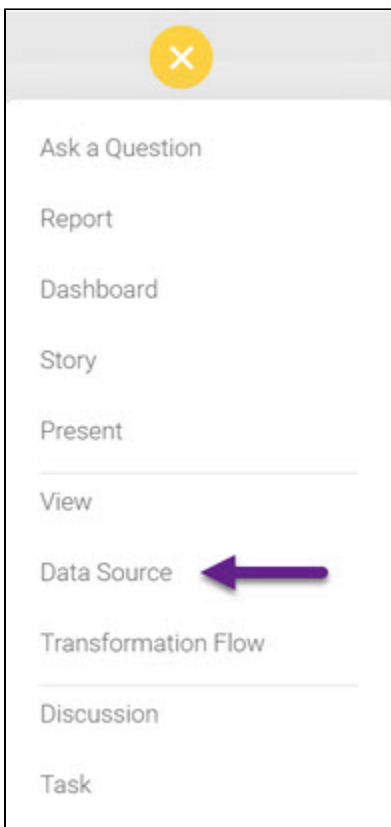
This can be done by selecting +Add more and dragging the additional files in, one by one.

Now click Submit and the driver will now appear in the list on the Plugin Management screen.

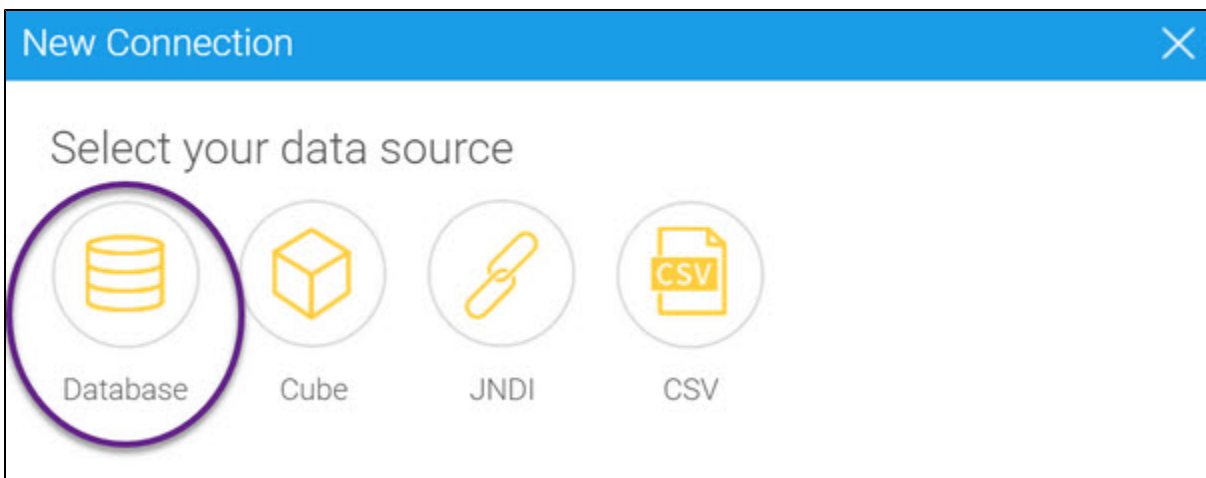
Now restart the Yellowfin service.

Create a connection to your Jira environment in Yellowfin

1. Login to Yellowfin.
2. Create a new data source connection.



3. Select "Database."



4. Complete the "New Connection" window with the following:


Name:	
Description:	
Database Type:	Generic JDBC Data Source
Include Schema in SQL:	Leave checked
JDBC Driver:	cdata.jdbc.jira.JIRADriver
Connection String:	<p>jdbc:jira:User=email@domain.com;APIToken=MyAPIKey;Url=https://myjira.atlassian.net;IncludeCustomFields=True</p> <p>Note that the API token needs to be created within the Jira interface. To generate one, log in to your Atlassian account and navigate to Security > Create and manage API tokens > Create API token. The generated token will be displayed.</p> <p>IncludeCustomFields=True will retrieve data for all custom fields in your Jira environment. Setting this to false (or omitting the parameter) will only pull data for the standard Jira fields through.</p>
User Custom Fetch Size:	Leave unchecked
Username:	<<Enter your JIRA username>>
Password:	<<Enter your JIRA password>>





Note that the data retrieved by the driver will be limited to the data that is accessible in Jira using the user account associated with the username above.

For directions on connecting using other authentication types (including Okta), refer to this [link](#).

New Connection







Connection Setti...

Create View

Analyze

Name:

Jira (CDATA)

Description:

Connection to Jira via the CDATA JDBC Driver

Database Type:

Generic JDBC Data Source

Include Schema in SQL:

☒

JDBC Driver:

cdata.jdbc.jira.JIRADriver

Connection String:

jdbc:jira:User=email@domain.com

Use Custom Fetch Size:

☐

Username:

email@domain.com

Password:

.....

Create View

5. Select the drop-down arrow to the right of the "Create View" button and select "Test Connection" to ensure you've configured the connection correctly.

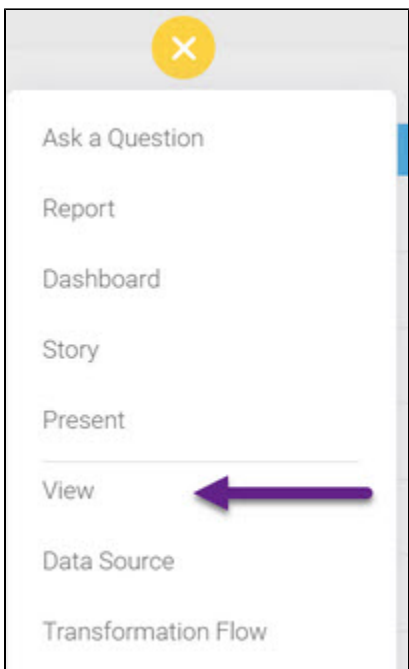
6. Select Save and close to save the data source.

For more information on the Jira JDBC driver, visit the following [link](#).

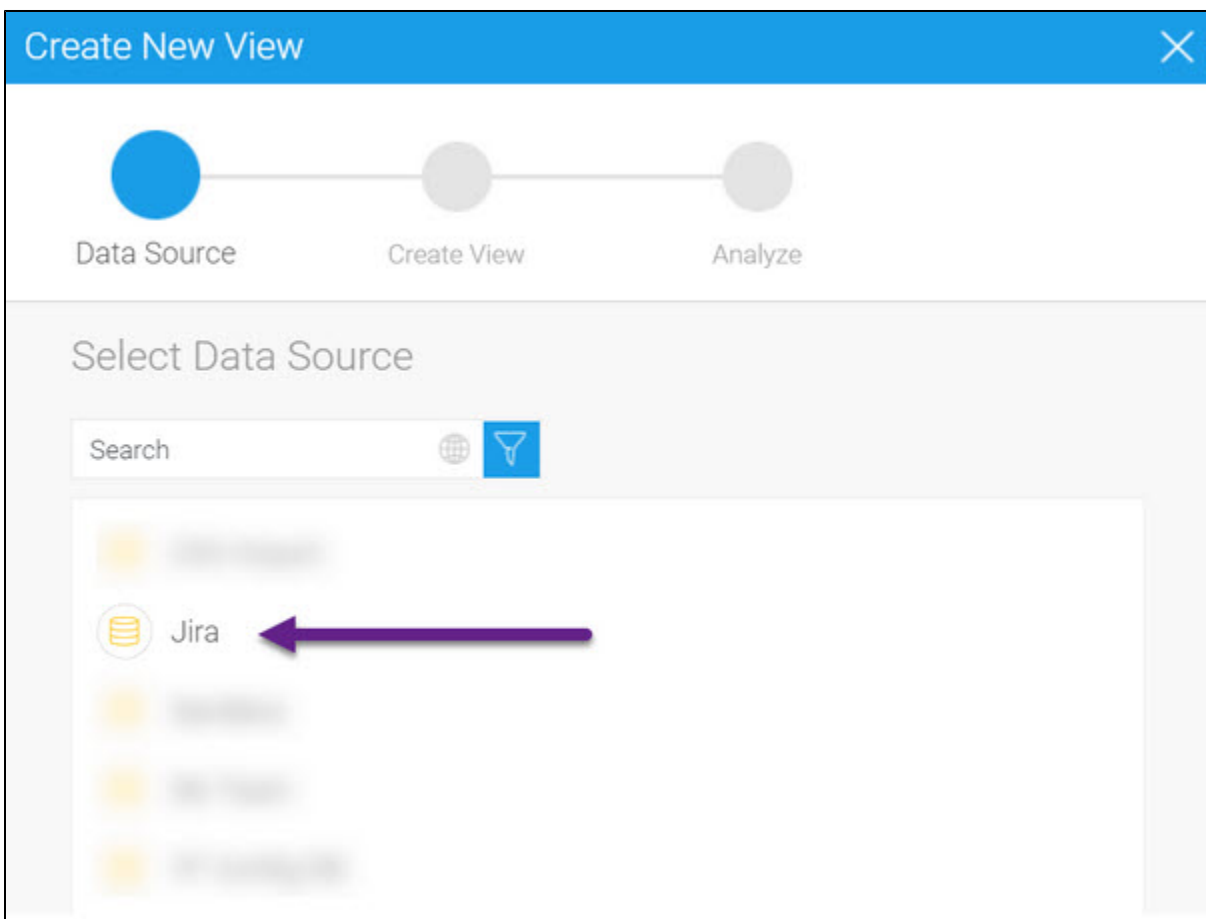
Using the Jira JDBC Driver

Now that you've created a connection to your Jira environment, the next step is to create a view to allow you to analyse the data.

1. Create a new view.



2. Select the data source you created in the previous step.



3. Select "Multiple tables," and click on "Create view."

Create New View

Jira

Create View

Analyze

Select your view type

Create a view based on multiple tables, using the drag and drop builder, within your selected data source connection.

Single Table

Stored Procedure

Multiple Tables

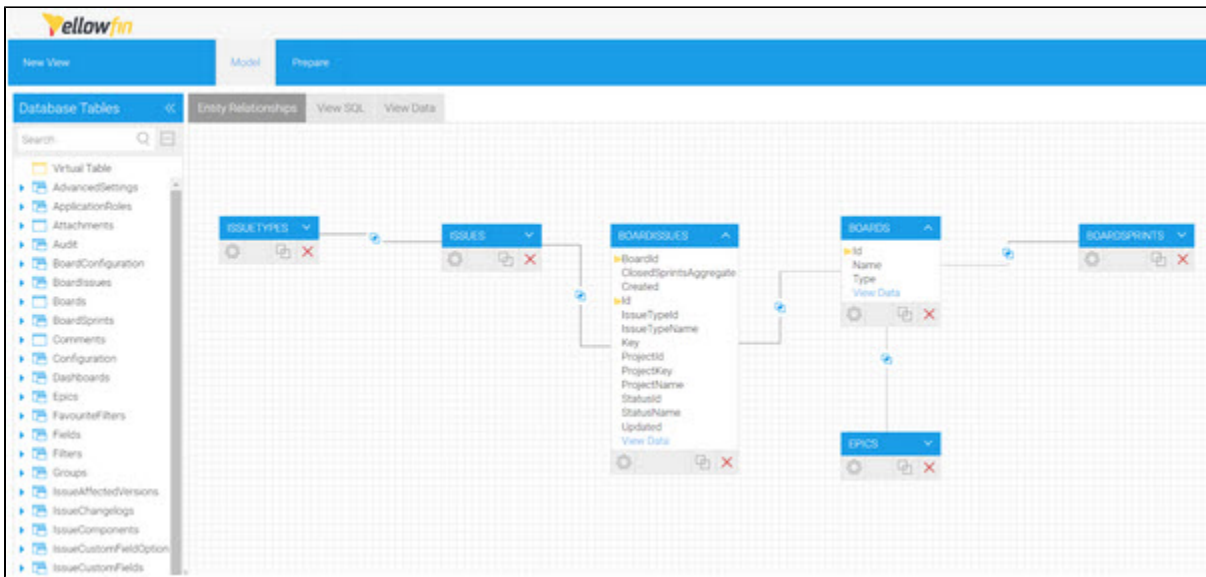
Freehand SQL

⚠ Multiple Tables

In order to create a view based on multiple tables you will require the full View Builder functionality, which will navigate you away from this page.

Create View

4. In the view builder, you can explore the tables/views retrieved by the driver in the list on the left and drag them into the Entity Relationships pane to add them to your view.



For detailed instructions, check our [Creating a View](#) and [Creating a Report](#) pages.