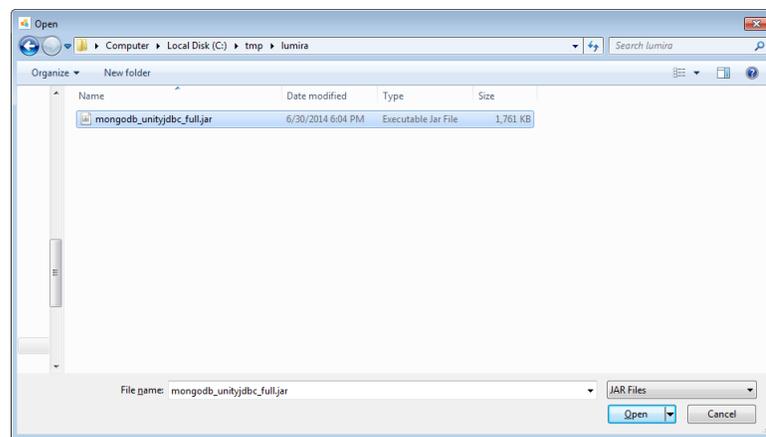
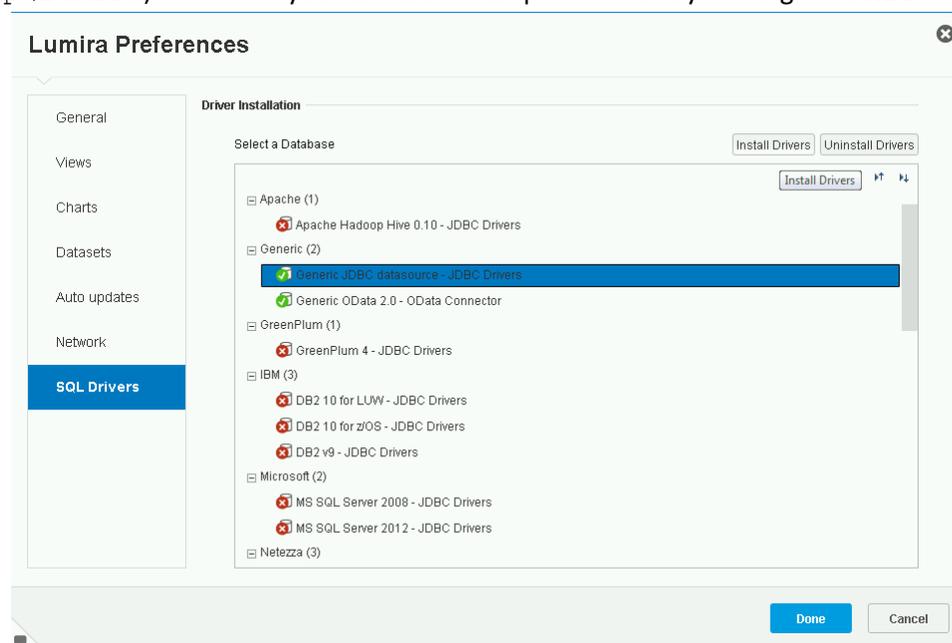
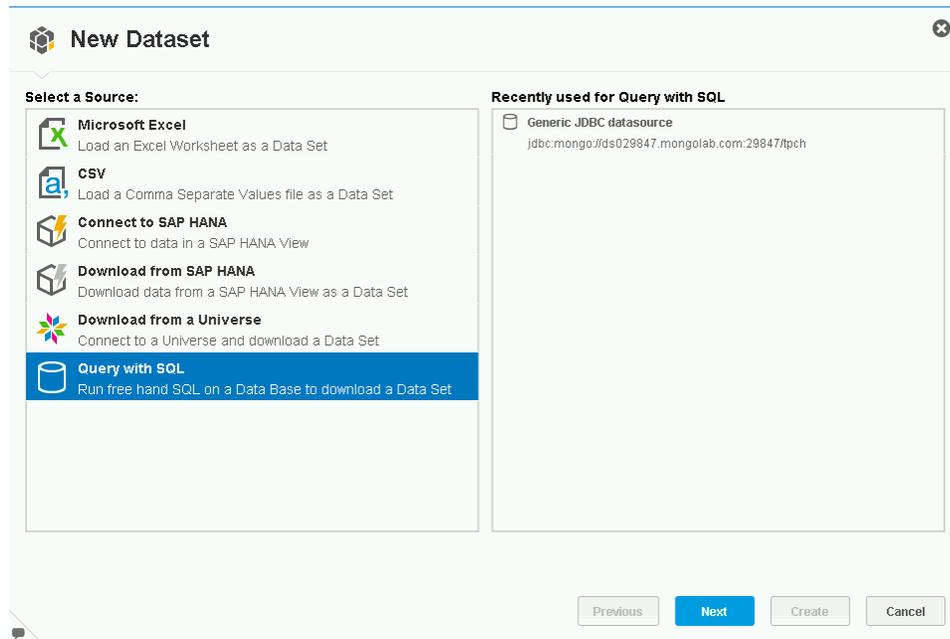


MongoDB JDBC and UnityJDBC Driver Setup for SAP Lumira

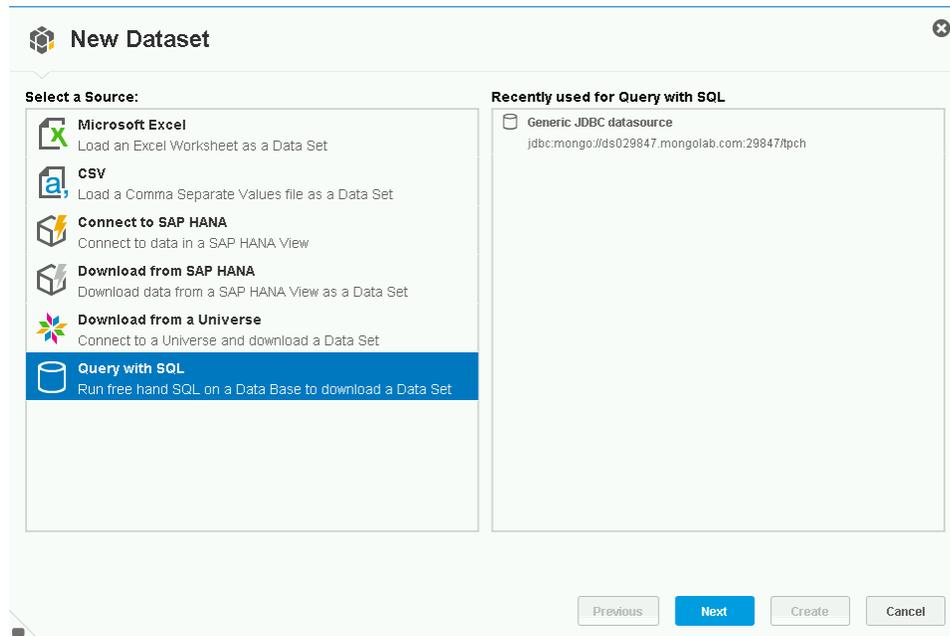
1. Download and extract the MongoDB JDBC package. You will need the `mongodb_unityjdbc_full.jar` if you are just using MongoDB or `unityjdbc.jar` otherwise.
2. Place the JAR files in a directory. For example: `c:\tmp\lumira`
3. Start SAP Lumira. Under File menu select Preferences. Select SQL Drivers. Select Generic JDBC datasource and click Install Drivers.
4. Select the JAR files for the driver in the directory where they were placed (e.g. `c:\tmp\lumira`). Note that you can select multiple JAR files by holding the Shift key.



5. Create a **New Dataset** using the **File** menu by selecting **New**. Select **Query with SQL**. Note that this option is only available in the standard edition of SAP Lumira. Click **Next**.

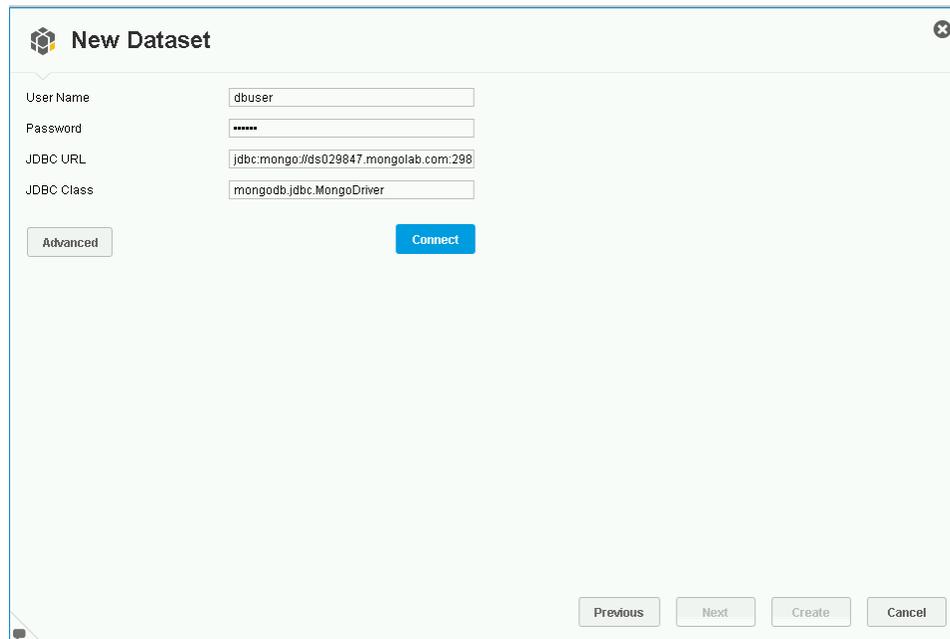


6. In the next window, select **Generic JDBC datasource** and click **Next**.



7. Add the JDBC connection information. For MongoDB, a sample database is:

User Name	dbuser
Password	dbuser
JDBC URL	jdbc:mongo://ds029847.mongolab.com:29847/tpch
JDBC Class	mongodb.jdbc.MongoDriver



The screenshot shows a 'New Dataset' dialog box with the following fields and values:

- User Name: dbuser
- Password: *****
- JDBC URL: jdbc:mongo://ds029847.mongolab.com:29847/tpch
- JDBC Class: mongodb.jdbc.MongoDriver

Buttons visible: 'Advanced', 'Connect', 'Previous', 'Next', 'Create', 'Cancel'.

8. Click **Connect** button to verify the connection. If you have errors, then check the user name and password as well as the JDBC URL. SAP Lumira provides limited error messages for diagnosis. More details can be found in the log whose location is configured in the file `BO_trace.ini` (see `log_dir` setting). A default location is:
`C:\Users\\AppData\Local\Temp\sapvi\logs`
9. To make the driver go into debug mode and provide more details add the parameter `debug=true` to the URL like this:

JDBC URL	jdbc:mongo://ds029847.mongolab.com:29847/tpch?debug=true
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10. Now enter a query for your data set. On the right side you can browse the tables (collections) in your MongoDB database. In the Query box you can enter a query. Note that with the trial version of the driver you can query single tables with any number of results, but any advanced operators such as aggregation and joins are executed using UnityJDBC. These queries are limited to 100 results. Add LIMIT 100 if you encounter errors with advanced queries. For more details see: <http://www.unityjdbc.com/mongojdbc/mongosqltranslate.php>

The screenshot shows the 'New Dataset' configuration window in SAP Lumira. The interface is divided into several sections:

- SELECT A TABLE OR TYPE AN SQL QUERY:** A search bar with the text 'Find' and a tree view of database collections. The 'orders' collection is selected.
- Dataset Name:** A text field containing the name 'orders'.
- Query:** A text area containing the SQL query: `select * from "tpch"."orders"`.
- Preview:** A table showing the first few rows of data. The table has 6 columns: `_id`, `o_orderkey`, `o_custkey`, `o_orderstat`, `o_totalprice`, and a currency column. The data is as follows:

<input checked="" type="checkbox"/>						
<code>_id</code>	<code>o_orderkey</code>	<code>o_custkey</code>	<code>o_orderstat</code>	<code>o_totalprice</code>		
51b118c1e4b0...	1	781	O	172,799.49	1€	
51b118c1e4b0...	2	1234	O	41,048.98	1€	
51b118c1e4b0...	3	445	F	250,870.73	1€	
51b118c1e4b0...	4	557	O	6,705.30	1€	
51b118c1e4b0...	5	392	F	120,227.38	1€	
51b118c1e4b0...	6	1301	F	2,506.57	1€	
51b118c1e4b0...	7	670	O	235,483.33	1€	
51b118c1e4b0...	32	611	O	197,403.12	1€	

At the bottom of the window, there are buttons for 'Previous', 'Next', 'Create', and 'Cancel'. The 'Create' button is highlighted in blue.

11. Click **Create** and SAP Lumira will load the data set. If an error occurs during load, check the log for the issue. Lumira does not provide details in the user interface why a load failed.

12. Now the data is loaded you can use SAP Lumira to create powerful visualizations and manipulations of your data set.

