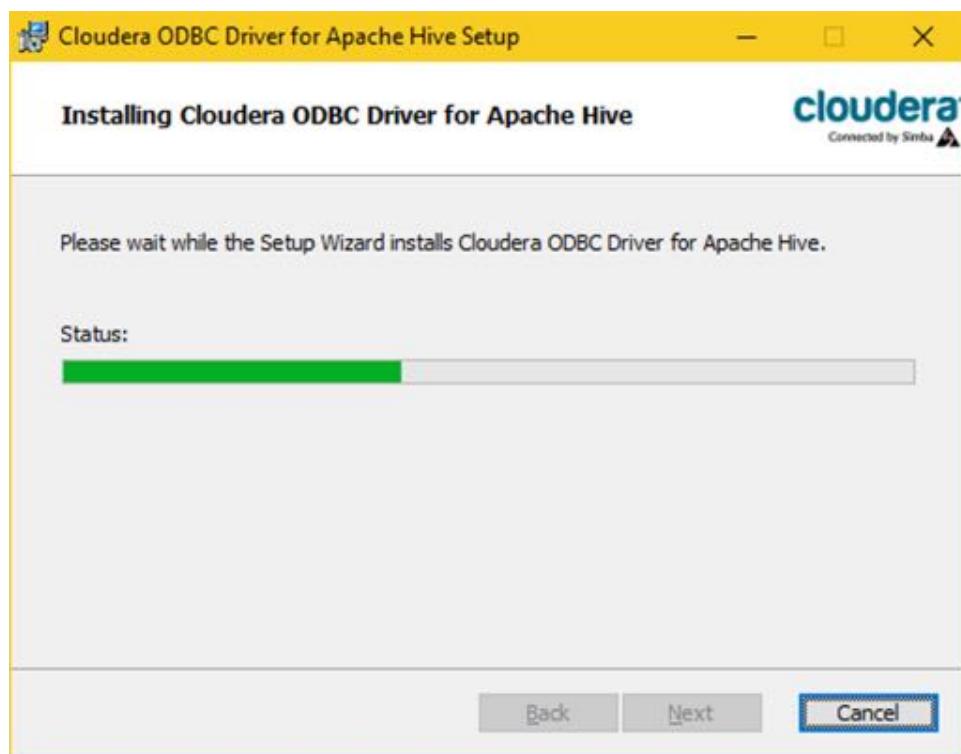


# Self Service BI in 10 Minutes (Client Setup)

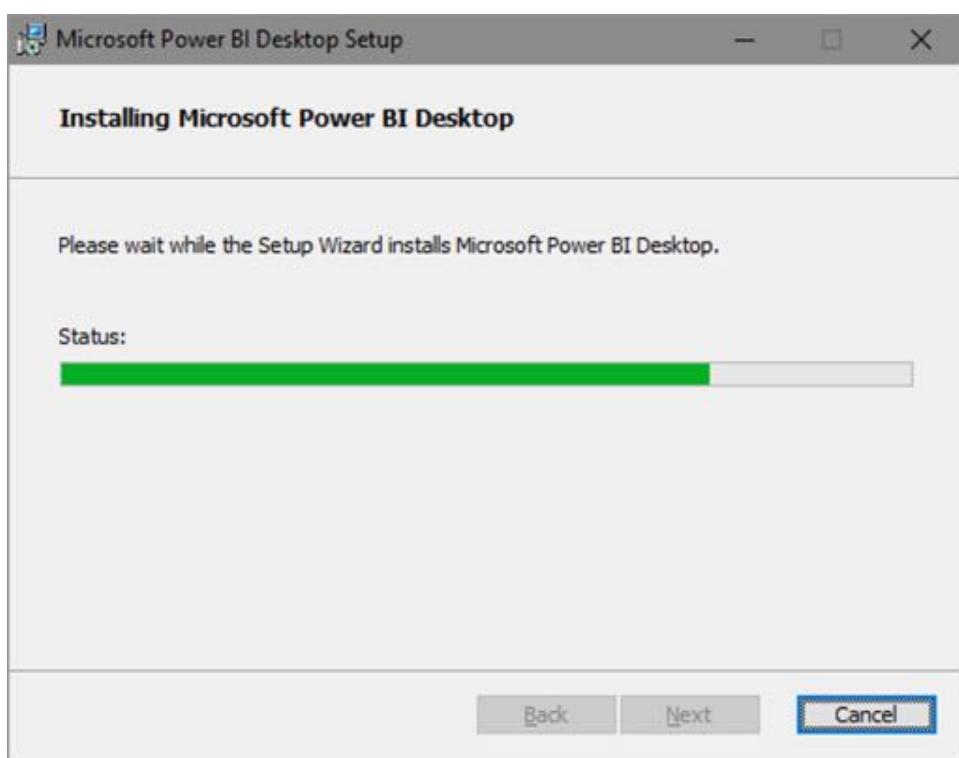
Monday, February 20, 2017 11:30 AM

Download Hive ODBC connector from  
<https://www.cloudera.com/downloads/connectors/hive/odbc/2-5-17.html>.  
Specifically choose the 32 bit version 2.5.0 version of the driver.

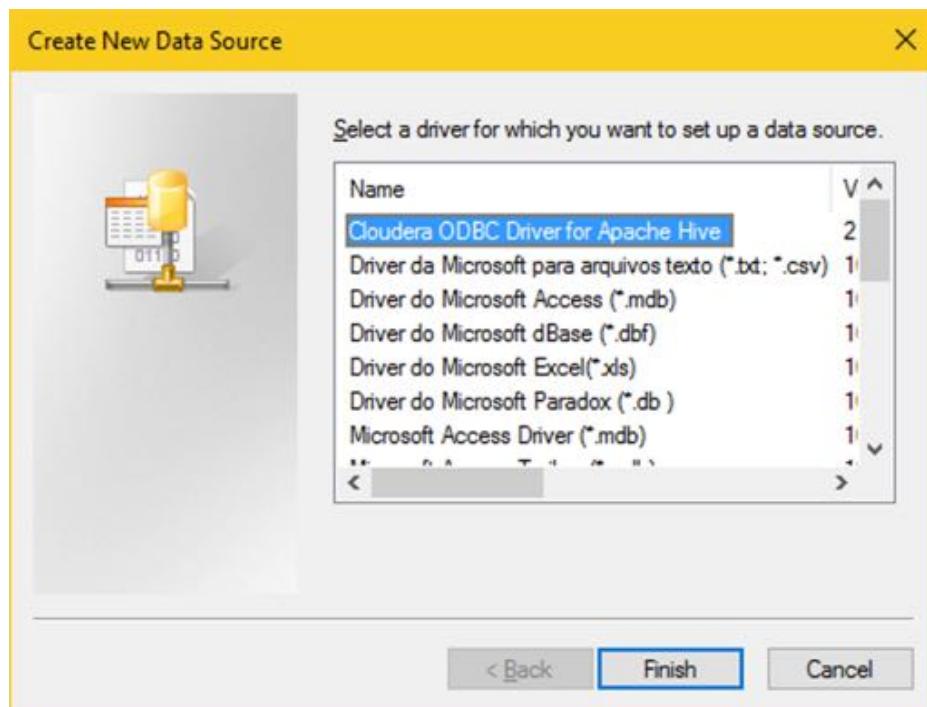
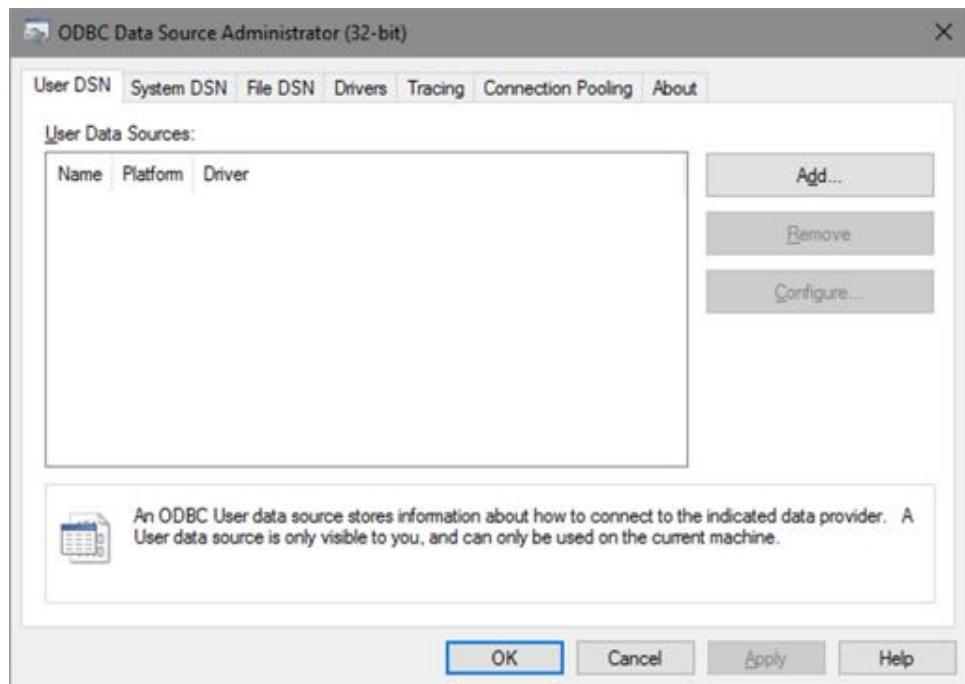
## Install ODBC Connector



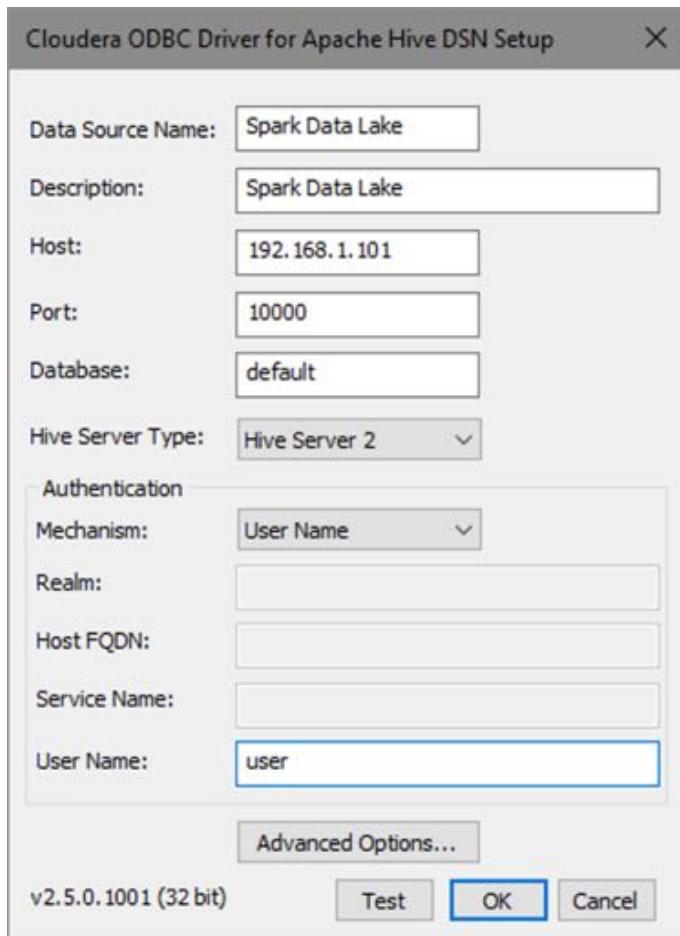
Download and install Power BI desktop from <https://www.microsoft.com/en-us/download/details.aspx?id=45331>



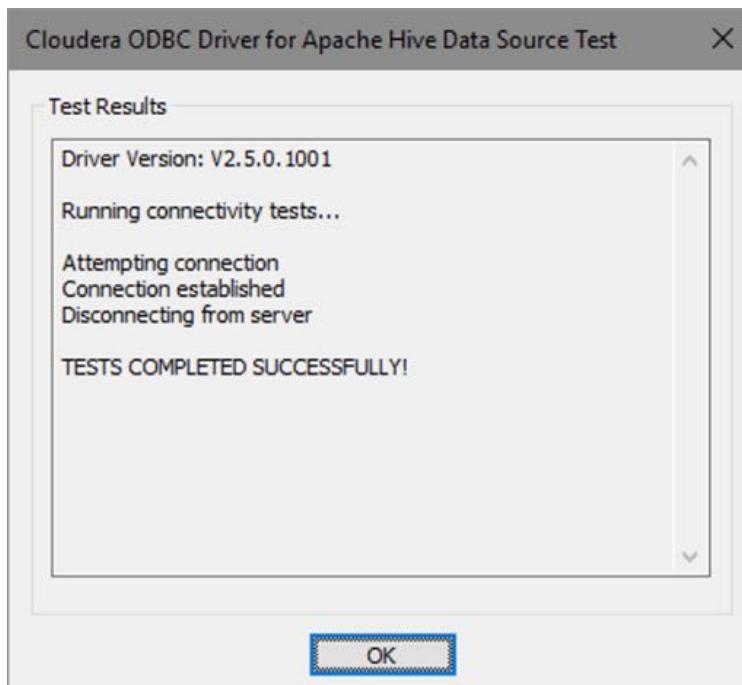
Create a new ODBC Connection with the Spark Thrift Server.



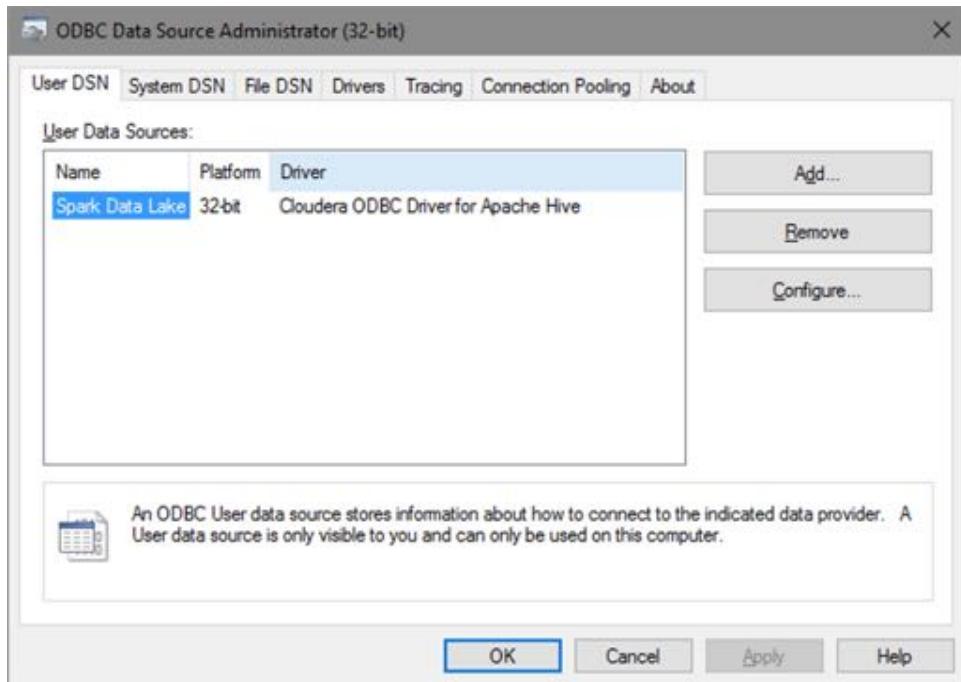
Configure the data source with SASL connection to the thrift host. The username is ignored mostly but necessary to establish connection.



Test to make sure the driver connection is setup correctly

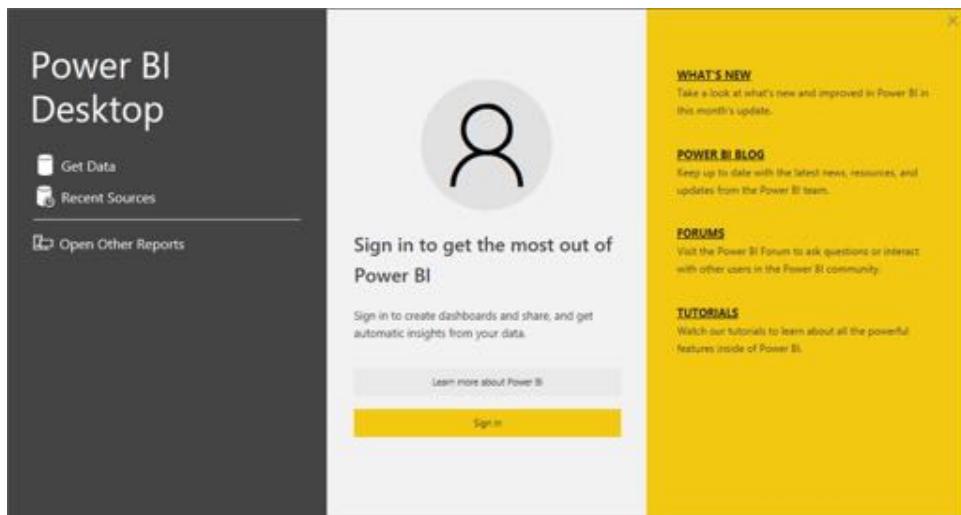


Remember the name of the ODBC data source -- here "Spark Data Lake"

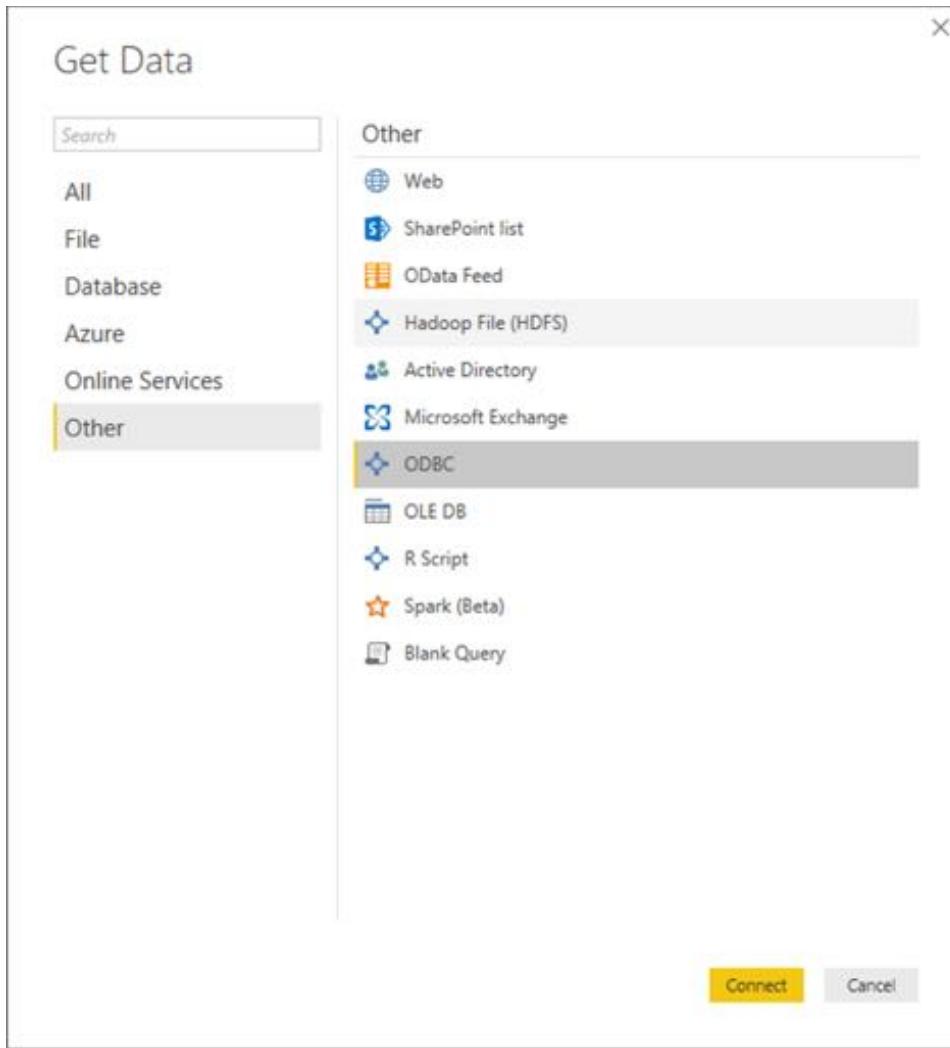


Build the BI.

Open Power BI. See <https://powerbi.microsoft.com/en-us/documentation/powerbi-desktop-getting-started/> for more details



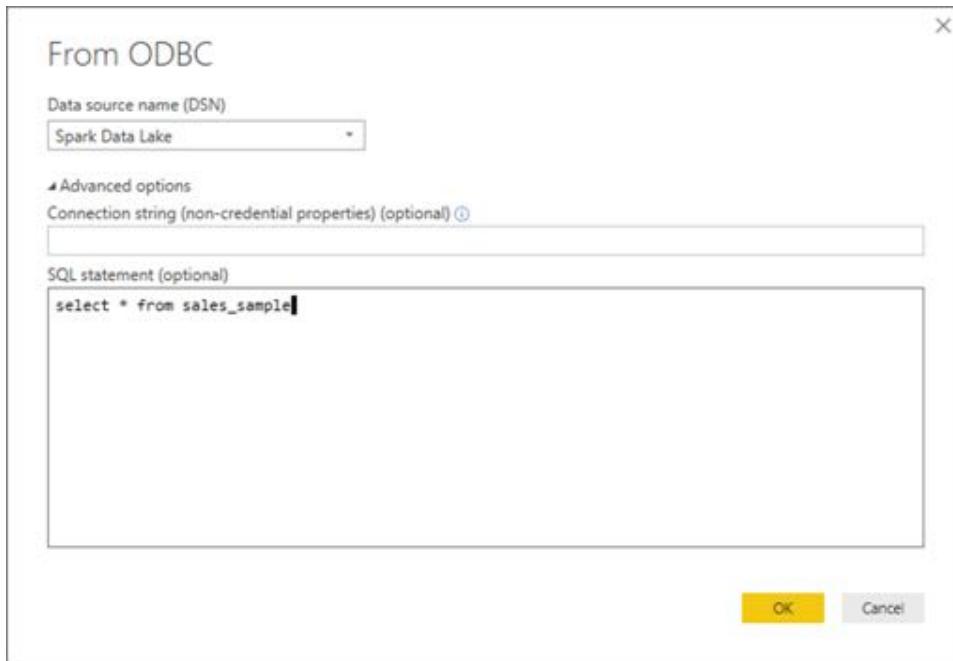
Choose to Get Data... and Select the ODBC source.



Specifically choose the Data Lake DSN you created in the ODBC Control Panel.



Since we already know the table name ("sales\_sample") in the data lake, we might as well choose to bring the data a priori into the PowerBI desktop. Use the SQL statement to select the data



Verify the data integrity.

ODBC (dsn=Spark Data Lake select \* from sales\_sample)

Row_ID	Order_ID	Order_Date	Order_Priority	Order_Quantity	Sales	Discount	Ship_Mode	Profit	Unit_Price	Shipping
3817	27201	1.34317E+18	High	45	3500.1	0.01	Delivery Truck	-2661.318	70.89	
3897	27808	1.26446E+18	Low	9	196.12	0.01	Express Air	4.41	20.89	
4173	29573	1.32667E+18	Critical	43	792.21	0.05	Regular Air	42.24	18.97	
4203	29862	1.30844E+18	Medium	34	214.64	0.08	Regular Air	-76.88	6.48	
4276	30433	1.27604E+18	Medium	17	253.38	0	Express Air	-35.78	13.9	
4284	30532	1.32227E+18	High	28	431.37	0.03	Regular Air	-28.6695	15.22	
4285	30532	1.32227E+18	High	23	262.31	0.04	Express Air	27.55	11.09	
4286	30532	1.32227E+18	High	45	514.03	0.05	Regular Air	82.19	11.34	
4287	30532	1.32227E+18	High	9	1696.7	0.04	Delivery Truck	-82.81	180.98	
4297	30597	1.34412E+18	High	18	93.02	0.07	Regular Air	20.01	5.08	
4298	30597	1.34412E+18	High	42	639.84	0.03	Regular Air	-95.76	15.14	
4349	30981	1.29773E+18	Low	29	7837.44	0.1	Delivery Truck	1817.76	279.81	
4350	30981	1.29773E+18	Low	22	3653.22	0.09	Delivery Truck	-116.02	180.98	
4455	31751	1.30637E+18	High	31	413.12	0.1	Express Air	-10.2235	14.27	
4473	31873	1.25764E+18	Low	2	141.59	0.05	Regular Air	-91.09	70.97	
4474	31873	1.25764E+18	Low	14	2465.5015	0.06	Regular Air	18.014	205.99	
4475	31873	1.25764E+18	Low	50	8558.4715	0.06	Regular Air	2539.458	205.99	
4476	31873	1.25764E+18	Low	42	236.89	0	Regular Air	-125.29	5.28	
4492	32000	1.34749E+18	Low	49	162.16	0.05	Regular Air	24.95	3.29	
4493	32000	1.34749E+18	Low	26	15168.82	0.02	Delivery Truck	-1098.776	550.98	

Compute any transformations needed from within the PowerBI platform.

Simplicity - Power BI Desktop

File Home Modeling

Home Data Get Data Recent Sources Enter Data Edit Queries Refresh Solutions Templates Showcase Resources Insert New Page New Visual Relationships Calculations Share

Fields

Search

+ [Query2]

- Customer\_Name
- Customer\_Segment
- Discount
- Order\_ID
- Order\_Priority
- Order\_Quantity
- Product\_Best\_Margin
- Product\_Catagory
- Product\_Constant
- Product\_Name
- Product\_Sub\_Catagory
- Profit
- Power
- Region
- Row\_ID
- Sales
- Ship\_Date
- Ship\_Mode
- Shipping\_Cost
- Unit\_Price

Dell Update

A recent update requires a restart!

Restart

TABLE: Query2 (8,999 rows) COLUMNS: Order\_Data (1,416 distinct values)

Now that the canvas is primed with data, drag-n-drop various visualizations, measures and filters for rendering a compelling BI dashboard.

## Explore Rich Interactive Visualizations

