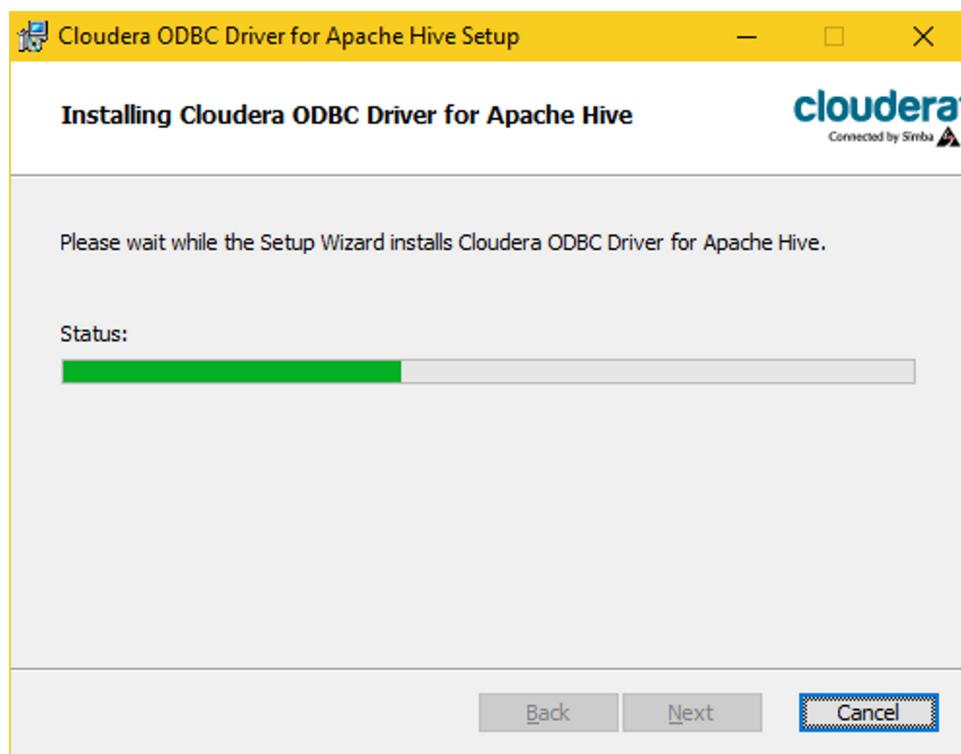
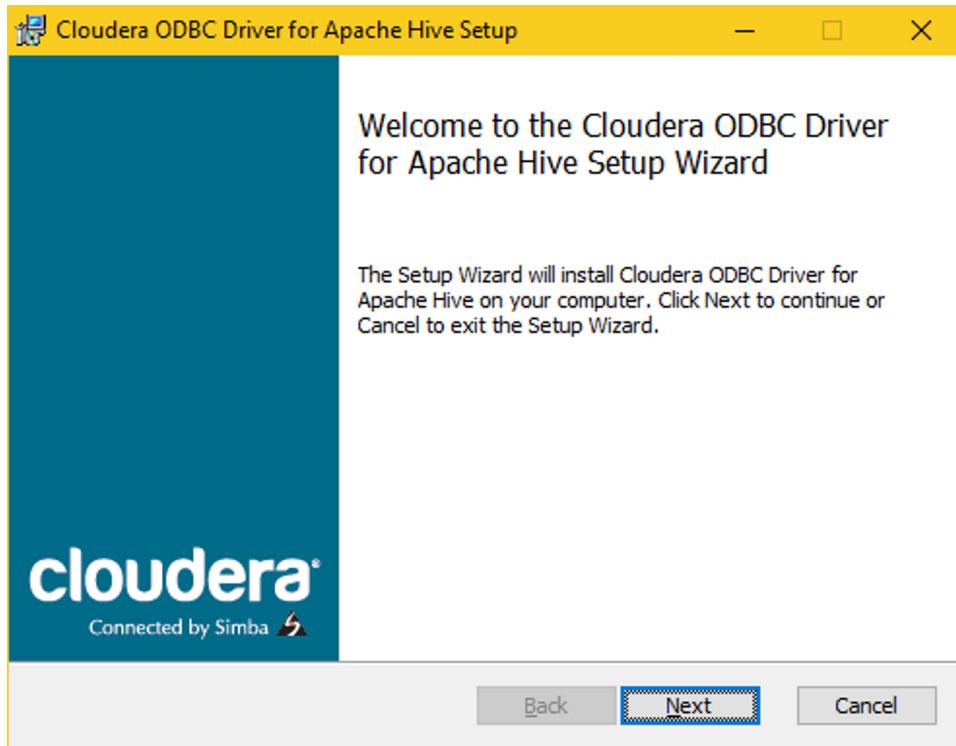


Self Service BI in 10 Minutes (Client Setup)

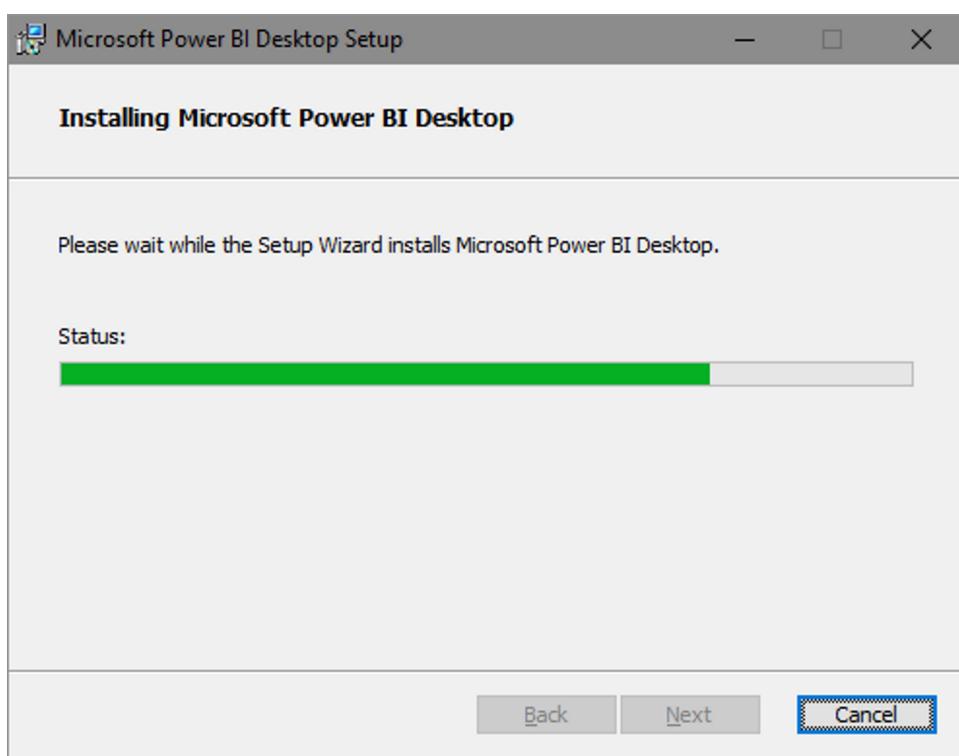
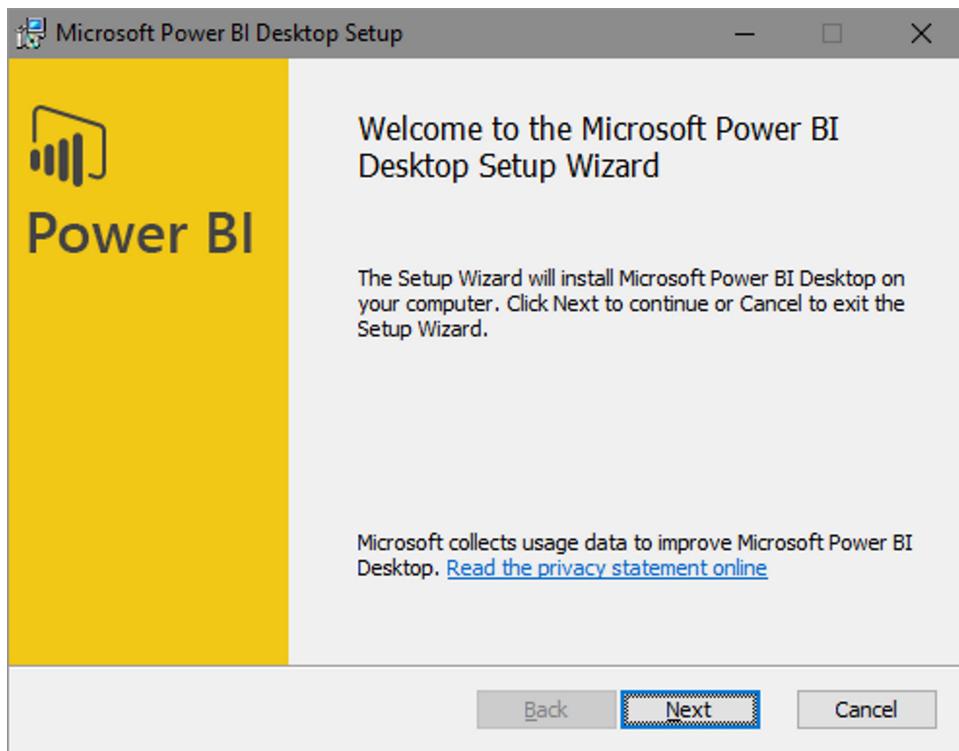
Monday, February 20, 2017 11:30 AM

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.

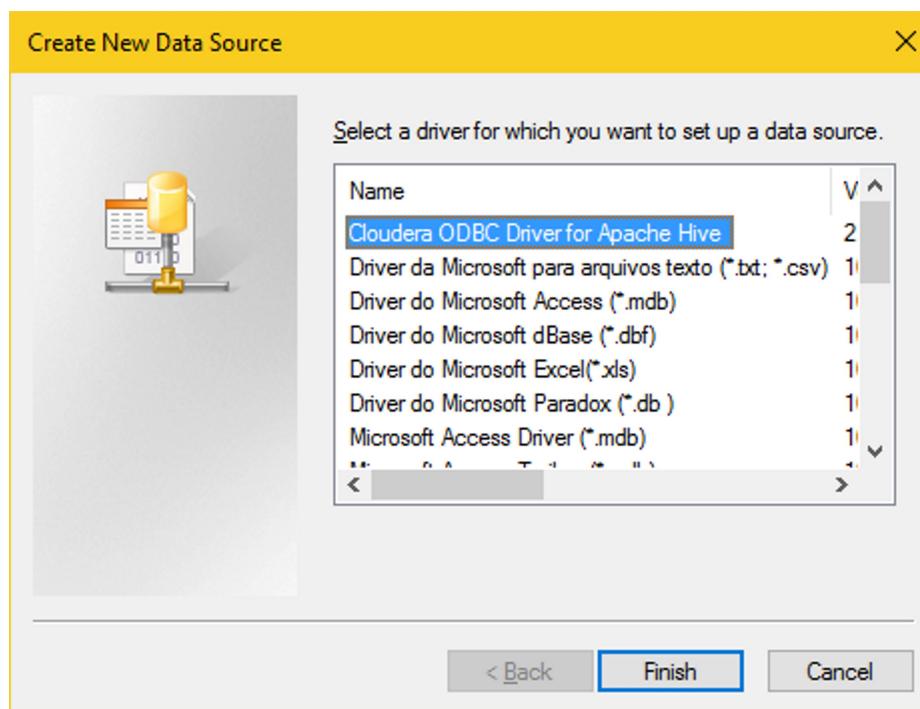
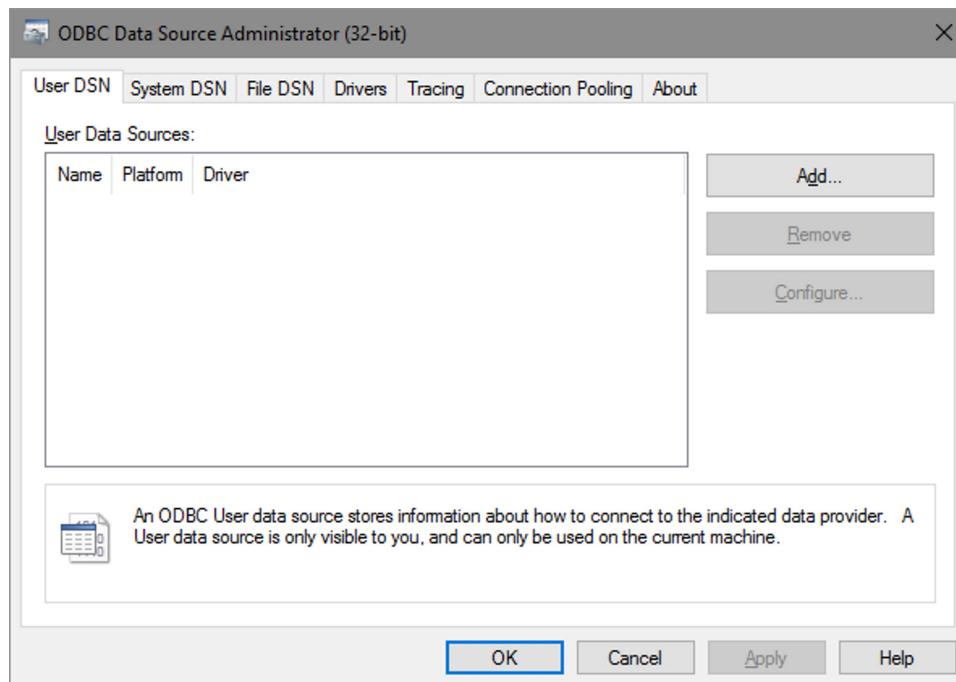
Install ODBC Connector



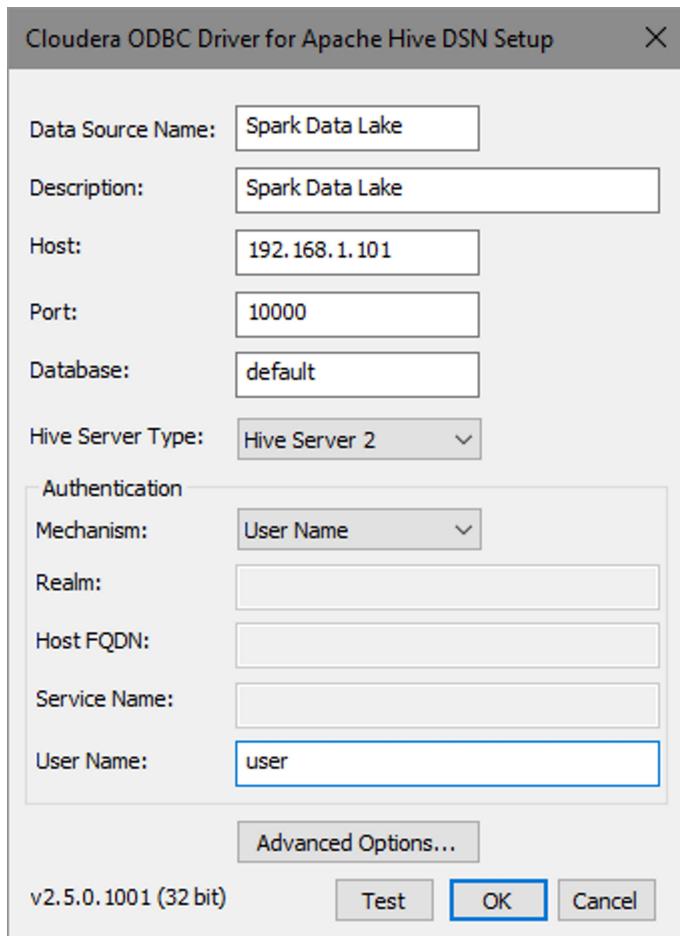
Download and install Power BI desktop from <https://www.microsoft.com/en-us/download/details.aspx?id=45331>



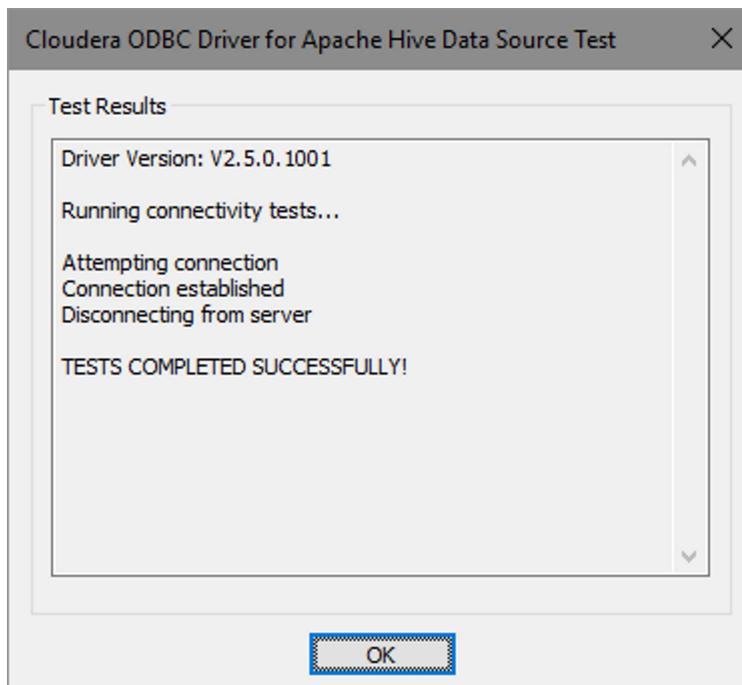
Create a new ODBC Connection with the Spark Thrift Server.



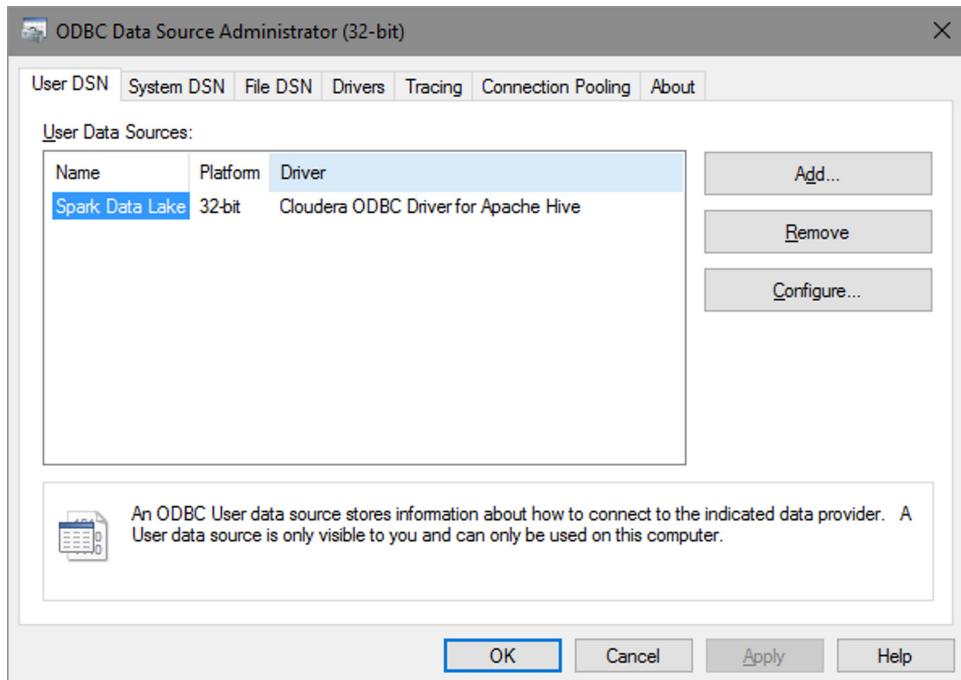
Configure the data source with SASL connection to the thrift host. The username is ignored mostly but necessary to establish connection.



Test to make sure the driver connection is setup correctly

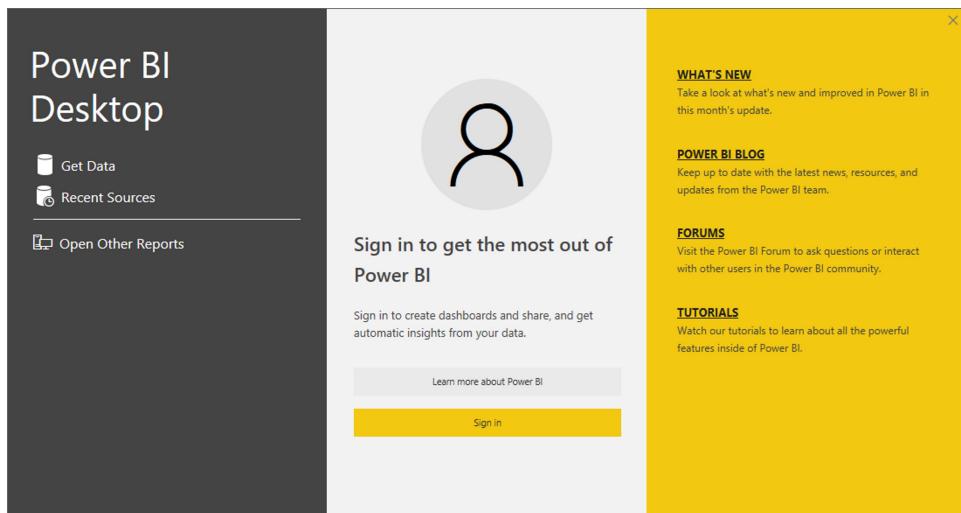


Remember the name of the ODBC data source -- here "Spark Data Lake"

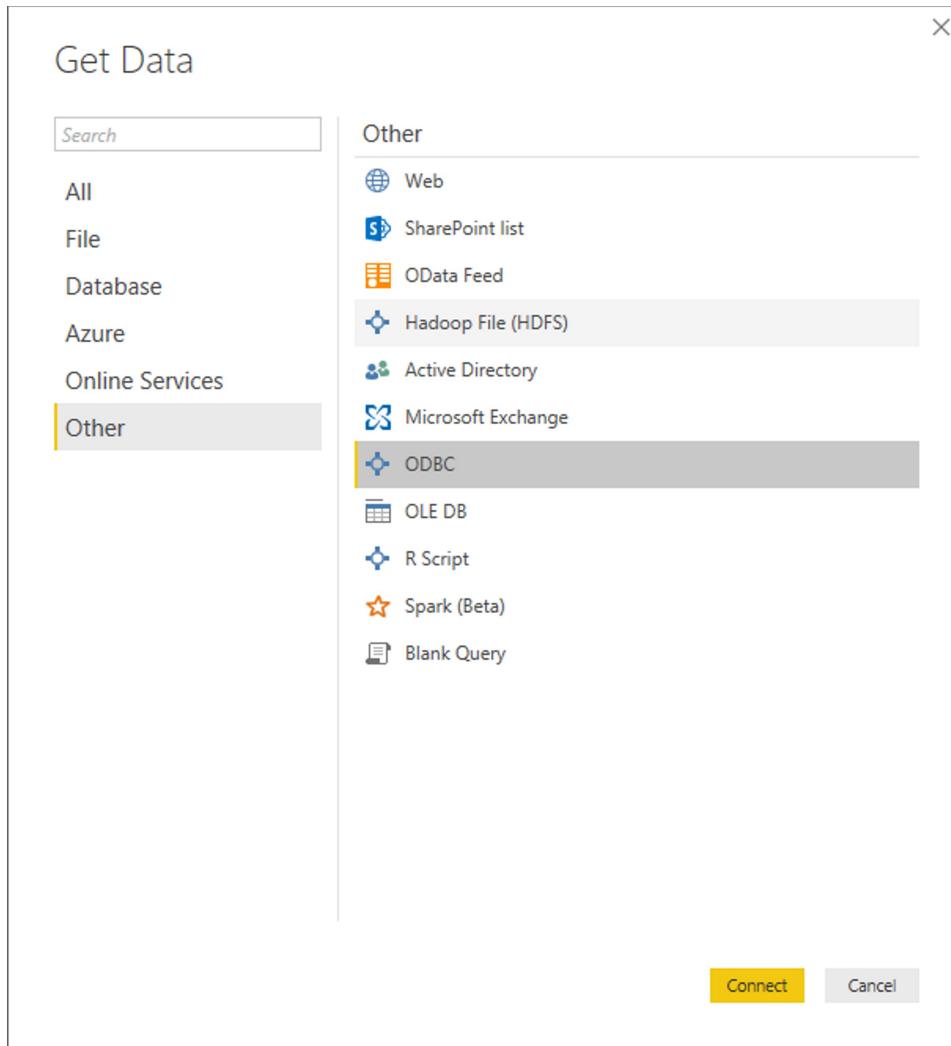


Build the BI.

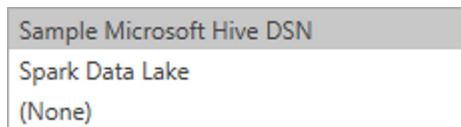
Open Power BI. See <https://powerbi.microsoft.com/en-us/documentation/powerbi-desktop-getting-started/> for more details



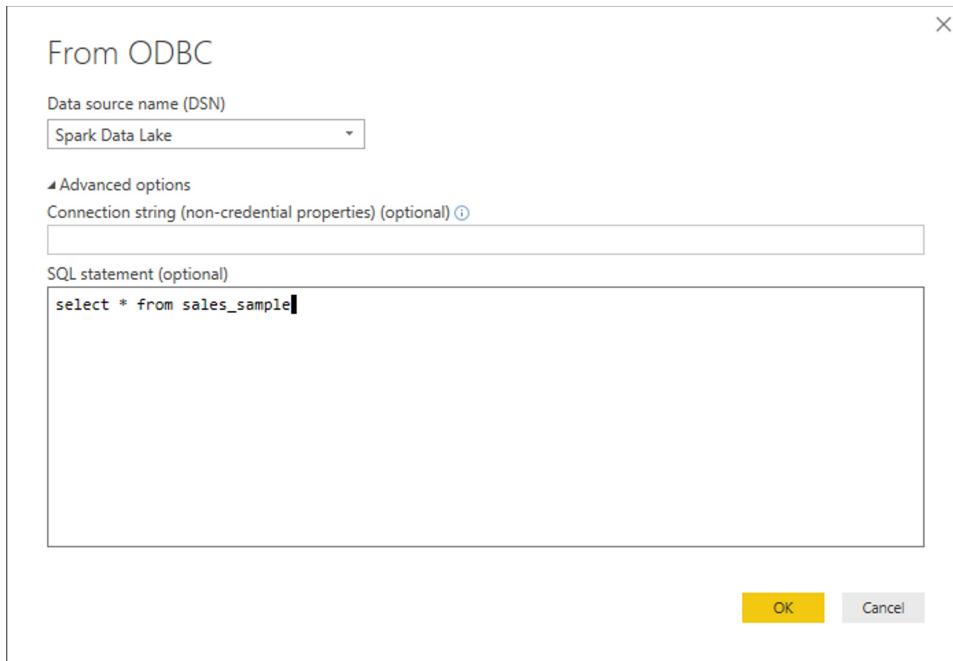
Choose to Get Data... and Select the ODBC source.



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	13.014	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	-1096.776	550.98	

< >

Load **Edit** **Cancel**

Compute any transformations needed from within the PowerBI platform.

SimpleBI - Power BI Desktop

Modeling

Clipboard External Data Resources Insert View Relationships Calculations Share

Fields

Search

Query2

Customer_Name Customer_Segment Discount Order_Date Order_ID Order_Priority Order_Quantity Sales Discount Ship_Mode Profit Unit_Price Shipping_Cost Customer_Name Province

Order_Quantity

Product_Base_Margin Product_Category Product_Container Product_Name Product_Sub_Cat...

Profit Province Region Row_ID Sales Ship_Date

Dell Update A recent update requires a restart

Restart

TABLE: Query2 (8,399 rows) COLUMN: Order_Date (1,418 distinct values)

Row_ID	Order_ID	Order_Date	Order_Priority	Order_Quantity	Sales	Discount	Ship_Mode	Profit	Unit_Price	Shipping_Cost	Customer_Name	Province
455	3104	22845088000000000000	Medium	50	336.06	0.01	Regular Air	-240.78	6.48	8.88	David Wiener	Nova Scotia
546	3680	13550120000000000000	Not Specified	27	177.95	0.09	Regular Air	-61.75	6.48	6.00	Evan Henry	Nova Scotia
3102	22242	12400240000000000000	Not Specified	50	329.91	0.04	Regular Air	-279.93	6.48	9.54	Noel Stevens	Nova Scotia
6873	48989	12874494000000000000	Not Specified	12	81.87	0.07	Regular Air	-51.14	6.48	5.94	David Flashing	Nova Scotia
6996	49984	12420000000000000000	Low	32	227.87	0.02	Regular Air	-130.81	6.48	8.40	Sara Luxembourg	Nova Scotia
4402	31395	12773040000000000000	Low	21	128.86	0.1	Regular Air	-42.81	6.48	5.16	George Zrebassa	Nova Scotia
675	476	12542880000000000000	Critical	29	180.38	0.08	Regular Air	-119.32	6.48	7.49	Michelle Tran	Quebec
276	1892	12579320000000000000	Low	9	64.29	0.01	Regular Air	-18.85	6.48	5.40	Joe Kambergro	Ontario
3197	22916	13281480000000000000	Medium	18	122.02	0.08	Regular Air	-115.00	6.48	10.05	Pete Takahito	Ontario
5330	37891	13190588000000000000	High	24	163.36	0.08	Regular Air	-65.54	6.48	6.60	Steven Roelle	Ontario
5740	40884	12914280000000000000	Not Specified	41	260.31	0.08	Regular Air	-175.26	6.48	7.91	Jim Snk	Ontario
6864	48902	13509540000000000000	Medium	7	53.29	0.01	Regular Air	-28.88	6.48	7.49	Benjamin Patterson	Ontario
6905	49221	12781152000000000000	Not Specified	41	277.35	0.02	Regular Air	-103.28	6.48	6.57	Mauren Fritzer	Ontario
3227	23169	13087872000000000000	Critical	27	172.72	0.07	Regular Air	-42.97	6.48	5.11	Karl Brown	Ontario
3255	23303	12454590000000000000	Not Specified	39	238.49	0.09	Regular Air	-110.56	6.48	6.22	Raph Arnott	Quebec
3274	23303	12569024000000000000	Medium	19	123.13	0.03	Regular Air	-75.44	6.48	7.37	Carol Adams	Quebec
4512	32102	13555442000000000000	Medium	2	19.81	0.02	Regular Air	-10.89	6.48	6.22	Vivie Sundresem	Quebec
8207	58659	12878734000000000000	High	2	21.01	0.03	Regular Air	-13.13	6.48	8.19	Tom Stivers	Quebec
6425	45670	13442976000000000000	Low	2	20.16	0.08	Regular Air	-13.32	6.48	7.86	Berry Franz	Quebec
6880	49056	12545520000000000000	High	46	300.07	0.05	Regular Air	-209.58	6.48	8.40	Cathy Hwang	Quebec
3289	23522	13004800000000000000	Critical	36	233.38	0.1	Regular Air	-180.17	6.48	8.73	Allen Shorely	Quebec
3349	20968	12891968000000000000	Critical	19	127.48	0.05	Regular Air	-41.89	6.48	5.84	Tracy Podder	Quebec
6003	42528	12688832000000000000	Medium	29	200.7	0.02	Regular Air	-147.72	6.48	9.17	Alex Grayson	Quebec
7866	56260	12802944000000000000	Not Specified	34	223.76	0.03	Regular Air	-139.66	6.48	7.91	Julie Krieg	Quebec
8342	59619	12860192000000000000	Not Specified	35	225.4	0.08	Regular Air	-165.48	6.48	8.40	Mauren Fritzer	Ontario
213	738	12674016000000000000	Not Specified	31	189.95	0.08	Regular Air	-56.68	6.48	5.14	Caroline	Quebec

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

