New Data Lake/SelfServeBI/Explori...

Start with the Getting Started With Data Visualization Desktop Notebook

FINISHED

```
NOTE: The Self-Service Analytics tutorials are under construction.  Please start with the notebook "Tutorial 4c: Getting Started with Data Visualization Desktop" which is
part of the New Data Lake journey.  That notebook is more up-to-date than this one.
```

Took 0 sec. Last updated by anonymous at November 16 2017, 3:52:43 PM. (outdated)

READY

Working with Oracle Data Visualization Desktop and CitiBike Data

READY

This tutorial was built for BDCS-CE version 17.3.3-20 as part of the Self Service BI User Journey: here (https://oracle.github.io/learning-library/workshops/journey1-self-service-bi/). Questions and feedback about the tutorial: david.bayard@oracle.com (mailto:david.bayard@oracle.com)

```
Note: This tutorial assumes you have tables defined in the Hive metastore which you should have if you ran the earlier tutorials.
```

Oracle Data Visualization Desktop (here (https://docs.oracle.com/middleware/bidv1221/desktop/index.html)) is a lightweight, single-file download tool to easily analyze data. Data Visualization Desktop can connect to a variety of data sources. In this tutorial, we will show you how you can use it to securely connect to BDCS-CE. We will connect via DV Desktop's support for Spark.

Please follow the instructions in the xtra Connecting DV Desktop and Hive for the DVD download and install instructions.

Working with CitiBike Data Off Line

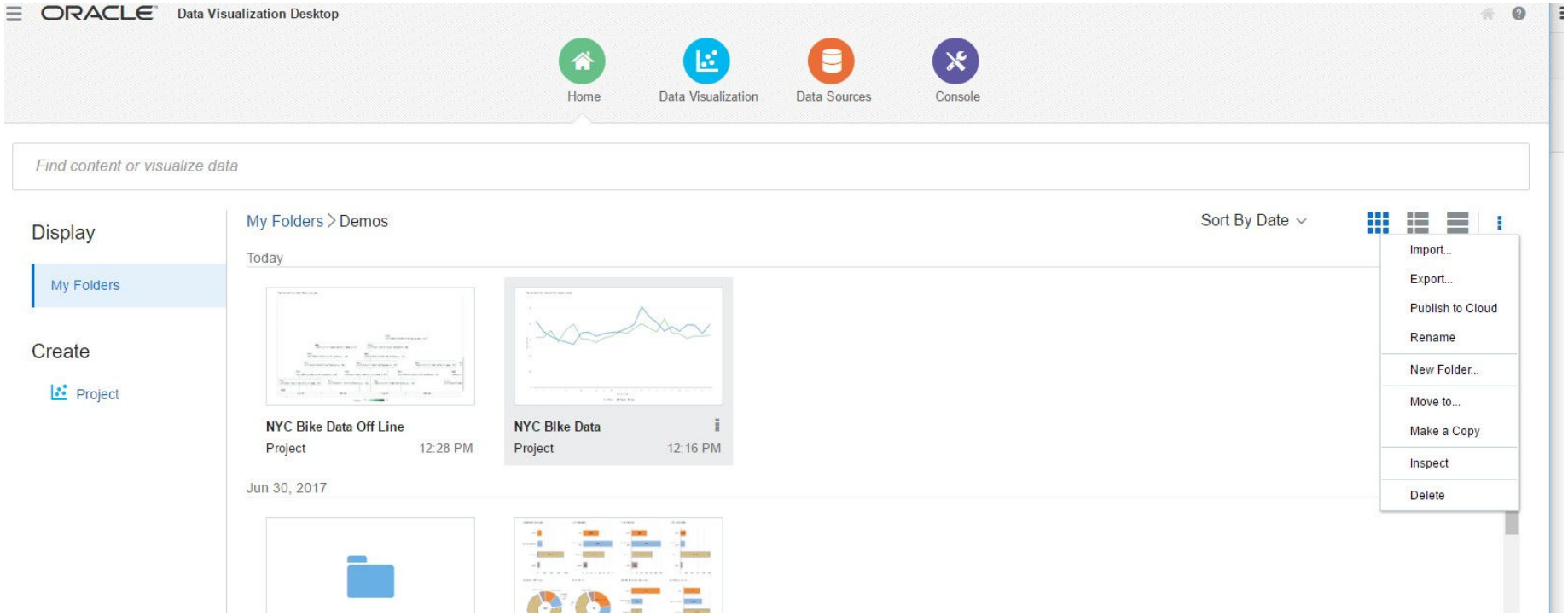
READY

This first lab uses a starter project that has imported the CitiBike 12-2016 data in as a CSV file. Take a look at the Prepare Tab. With CSV all data headers come in automatically. Longitude and Latitude come in as Doubles and much be converted to Attributes to work with the mapping functions. Additional fields can be added in the Prepare Tab. Male/Female is an example of this.

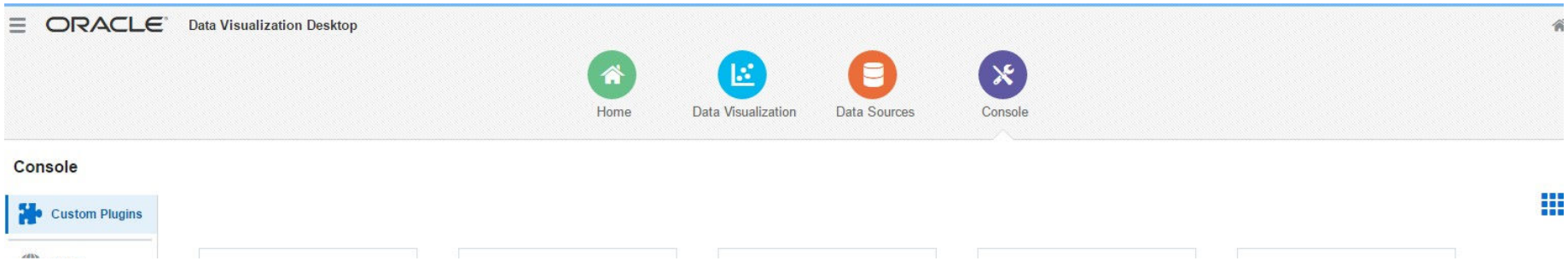
Download the CitiBike DVD Project. There are three files. Download all three and unzip.
CitiBikeOffline.zip.001 (https://raw.githubusercontent.com/oracle/learning-library/master/workshops/journey1-self-service-bi/DVData/CitiBikeOffline.zip.001)
CitiBikeOffline.zip.002 (https://raw.githubusercontent.com/oracle/learning-library/master/workshops/journey1-self-service-bi/DVData/CitiBikeOffline.zip.002)
CitiBikeOffline.zip.003 (https://raw.githubusercontent.com/oracle/learning-library/master/workshops/journey1-self-service-bi/DVData/CitiBikeOffline.zip.003)
Note: the three files are pieces of the same zip file. To unzip using the 7-zip tool, right-click on the .001 file and choose 7-Zip->Open Archive. You only have to do this for the .001 file, the 7-Zip tool knows to look for the .002 and .003 piece in the same directory.

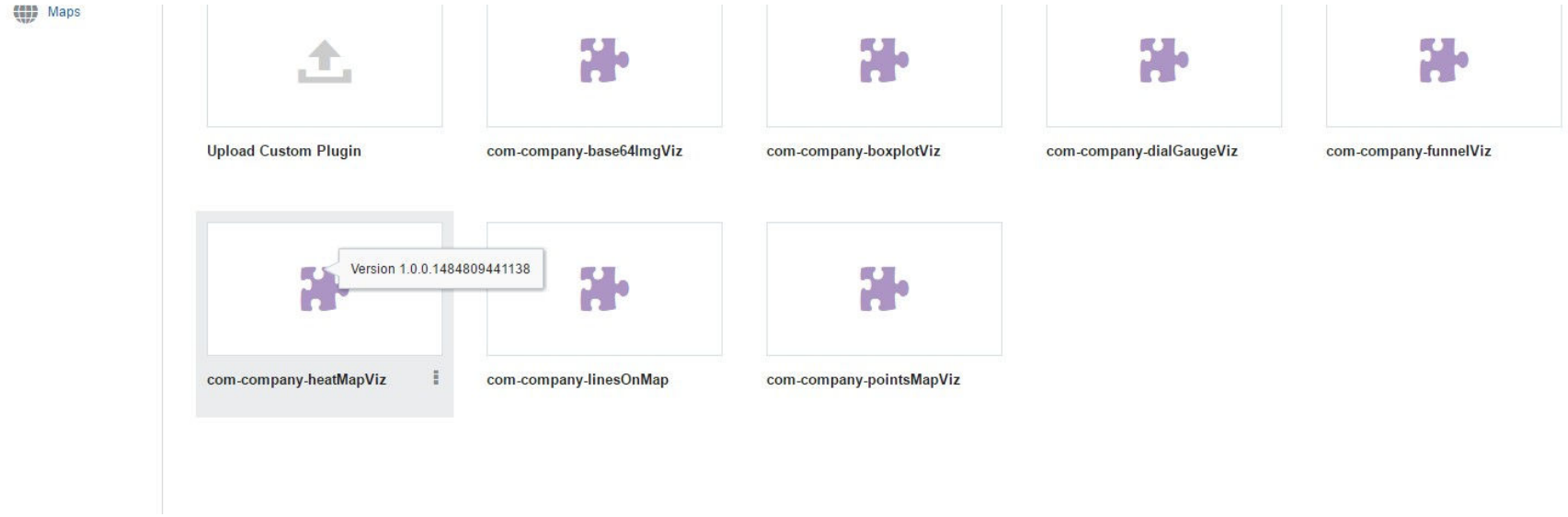
Download the custom map plugins, there are 2 files used. Do not unzip.
customviz-com-company-heatMapViz.zip (https://raw.githubusercontent.com/millerhoo/journey1-self-service-bi/master/workshops/journey1-self-service-bi/DVData/customviz-com-company-heatMapViz.zip)
customviz-com-company-pointsMapViz.zip (https://raw.githubusercontent.com/millerhoo/journey1-self-service-bi/master/workshops/journey1-self-service-bi/DVData/customviz-com-company-pointsMapViz.zip)

- Open up DV Desktop
- From the home page click on the 3 dots on the top right and select Import
- Either drag and drop the file on the import page or find the CitiBikeOffline.dva
- Password is Admin123



From the main screen go to the Console. You can drag and drop the customer pugins or use the file feature to find them.



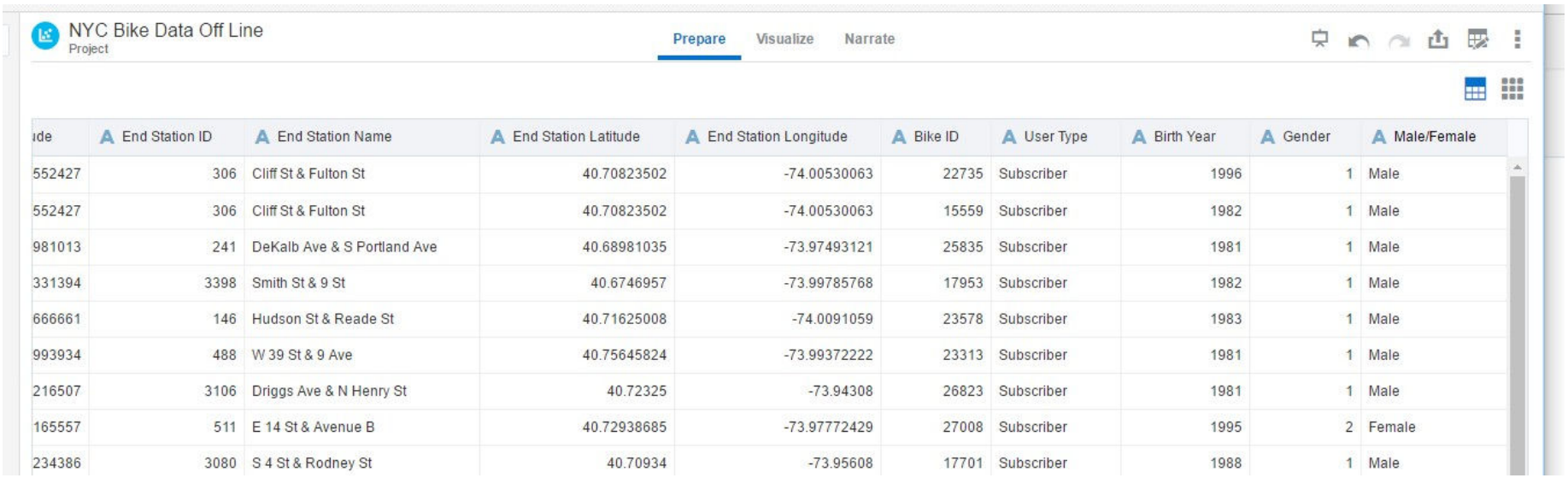


DVD Exploration

READY

The purpose of this step is to become more familier with DVD. We can use this simple data set to learn how to work with filters and the basic visualizations. Look at the data in different ways to see what pattens you can uncover. Friday nights(early morning) at 2:00AM are revealing!

- Click on the Prepare Tab and reivew the imported data. Take a look at the Male/Female column
- Click back on the Visualize Tab. You should see 4 predefined view. Each view is a starter view for exploring the data.

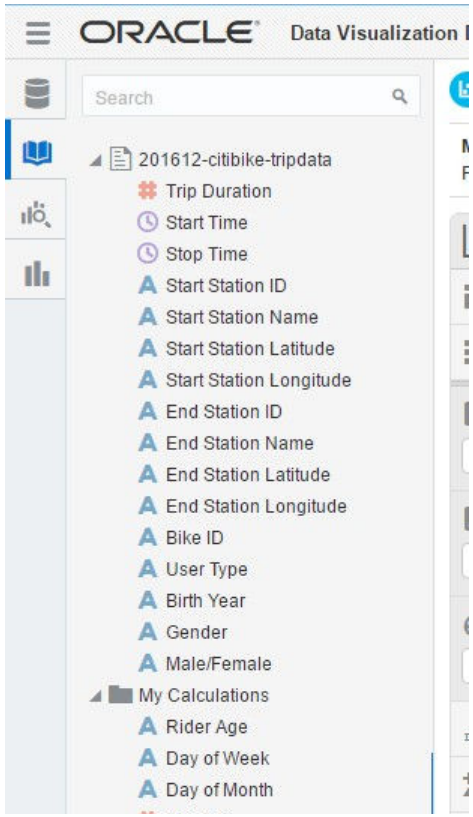


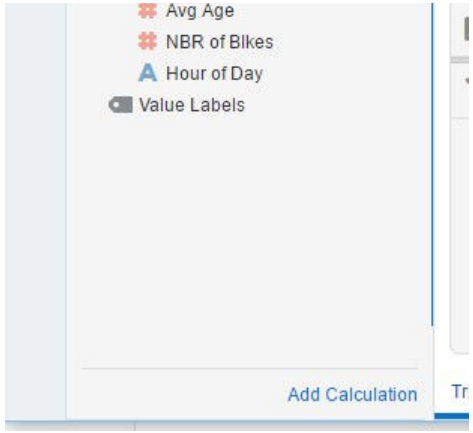
ıde	End Station ID	End Station Name	End Station Latitude	End Station Longitude	Bike ID	User Type	Birth Year	Gender	Male/Female
552427	306	Cliff St & Fulton St	40.70823502	-74.00530063	22735	Subscriber	1996	1	Male
552427	306	Cliff St & Fulton St	40.70823502	-74.00530063	15559	Subscriber	1982	1	Male
981013	241	DeKalb Ave & S Portland Ave	40.68981035	-73.97493121	25835	Subscriber	1981	1	Male
331394	3398	Smith St & 9 St	40.6746957	-73.99785768	17953	Subscriber	1982	1	Male
666661	146	Hudson St & Reade St	40.71625008	-74.0091059	23578	Subscriber	1983	1	Male
993934	488	W 39 St & 9 Ave	40.75645824	-73.99372222	23313	Subscriber	1981	1	Male
216507	3106	Driggs Ave & N Henry St	40.72325	-73.94308	26823	Subscriber	1981	1	Male
165557	511	E 14 St & Avenue B	40.72938685	-73.97772429	27008	Subscriber	1995	2	Female
234386	3080	S 4 St & Rodney St	40.70934	-73.95608	17701	Subscriber	1988	1	Male

677685	3002	South End Ave & Liberty St	40.711512	-74.015756	23773	Subscriber	1962	1	Male
772429	504	1 Ave & E 16 St	40.73221853	-73.98165557	27008	Subscriber	1995	2	Female
674436	368	Carmine St & 6 Ave	40.73038599	-74.00214988	25021	Subscriber	1963	1	Male
'111473	3358	Garfield Pl & 8 Ave	40.6711978	-73.97484126	27122	Subscriber	1955	1	Male
955736	3113	Greenpoint Ave & Manhattan Ave	40.73026	-73.95394	26448	Subscriber	1981	1	Male
789917	393	E 5 St & Avenue C	40.72299208	-73.97995466	26096	Subscriber	1995	1	Male
008119	358	Christopher St & Greenwich St	40.73291553	-74.00711384	20015	Subscriber	1982	1	Male
197139	247	Perry St & Bleecker St	40.73535398	-74.00483091	25530	Subscriber	1970	1	Male
234386	3091	Frost St & Meeker St	40.71764	-73.94882	22039	Subscriber	1971	1	Male
205027	402	Broadway & E 22 St	40.7403432	-73.98955109	26995	Subscriber	1987	1	Male

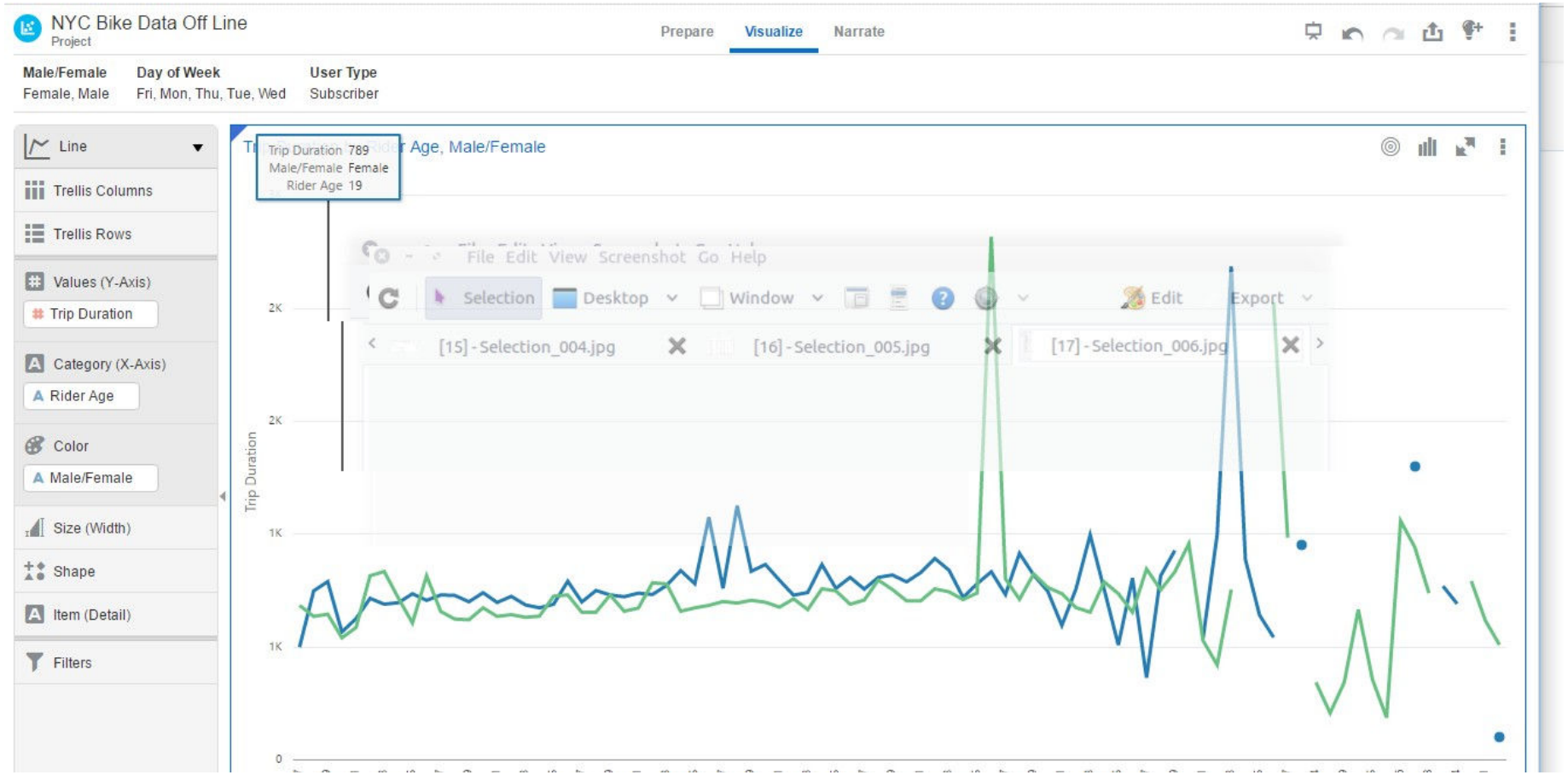
Source Diagram | 201612-citibike-tripdata

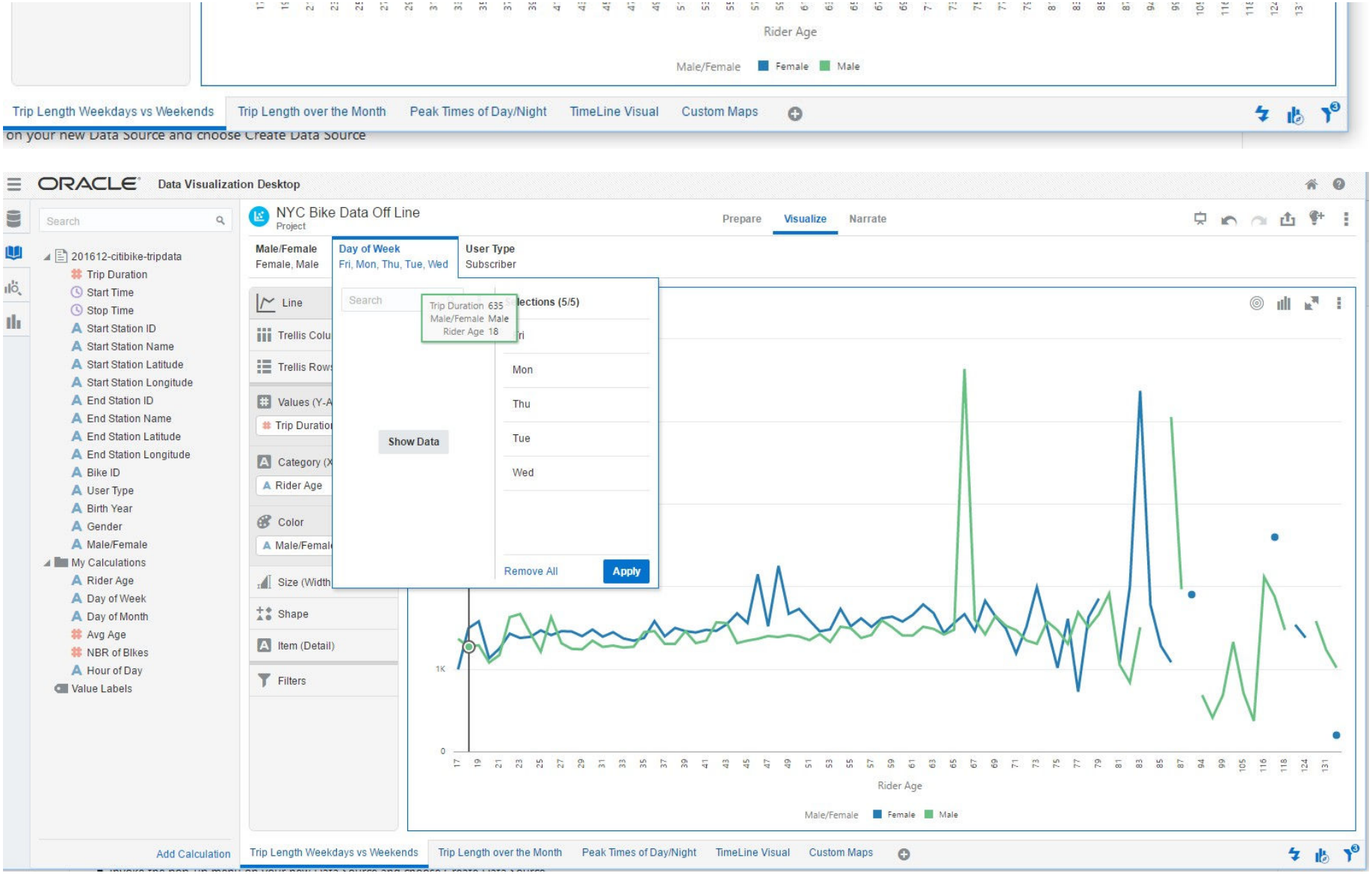
- From the Visualize tab take a look at MyCalculation. Calculated fields can range from simple to complex includeing the use of custom pluging, R scripts and other extensions. Basic calcuations have been added to this project.





- On the first tab experiment with the filters. Change Weekdays to Weekend -what does this tell you? Change Male/Female with Rider Age. DVD is a tool to explor the data. See what kind of patterns you can uncover!





- Contiune exploration on each tab
- The Timeline tab is slow to come up due to the number of points in the data. You can use filters to narrow it down. It is a intersting visual.
- The Custom Maps are also very dense. You can drill down to see more details.

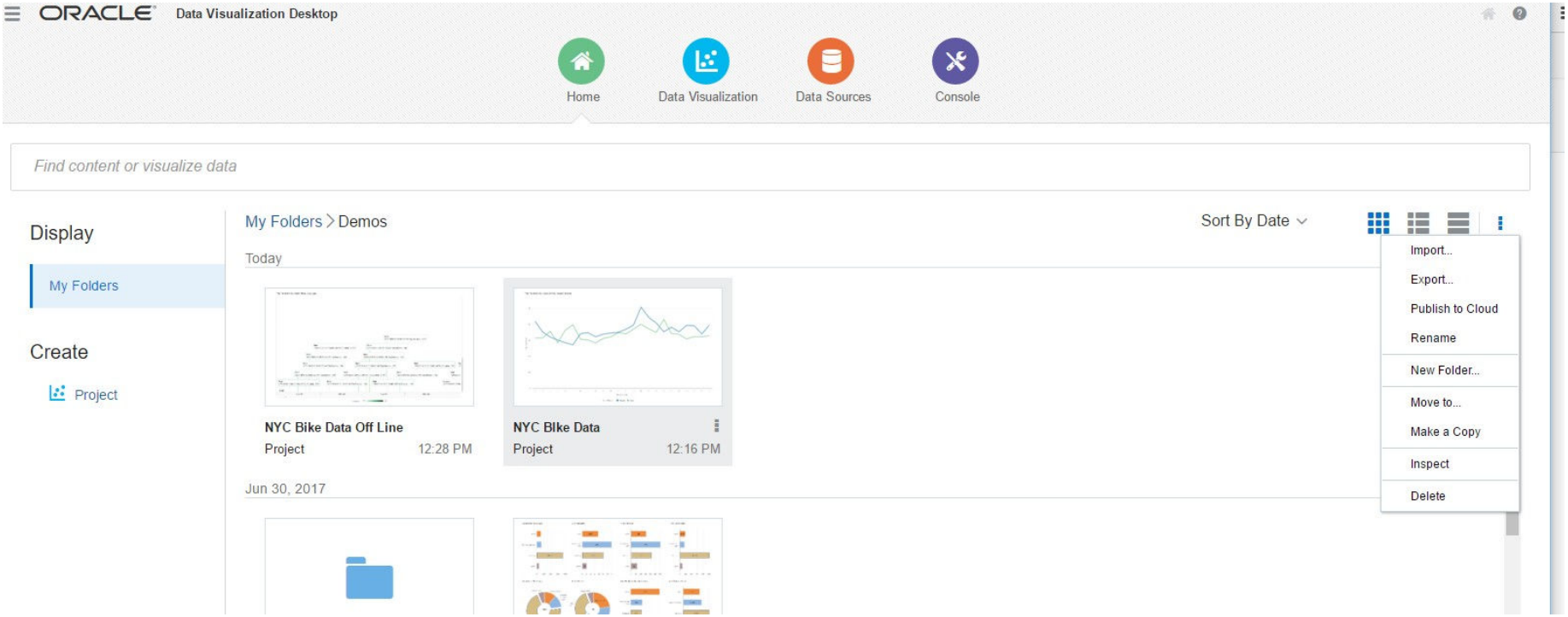
Working with CitiBike Data Using Spark

READY

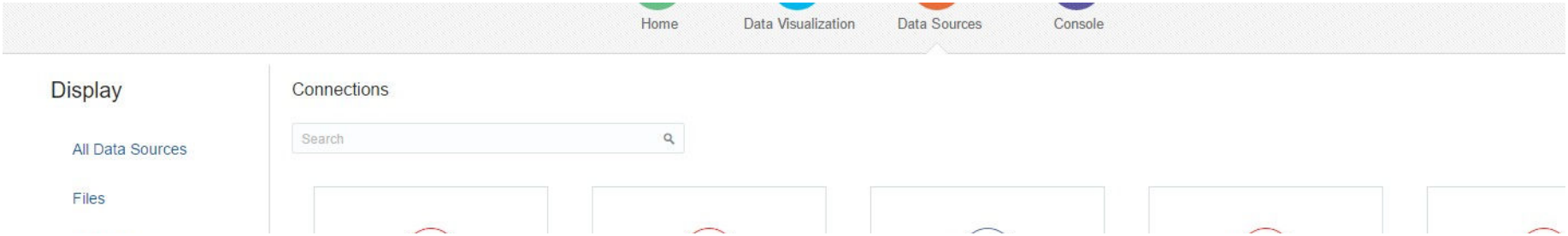
This nextlab uses a starter project that has connection to the CitiBike 12-2016 data in BDCSCE through Spark. Take a look at the Prepare Tab. With Spark the hearders all need to be updated to make the names more readable. Each field should be reviewed to verify the data type. all data headers come in automatically. Additional fields can be added in the Prepare Tab. Male/Female is an example of this.

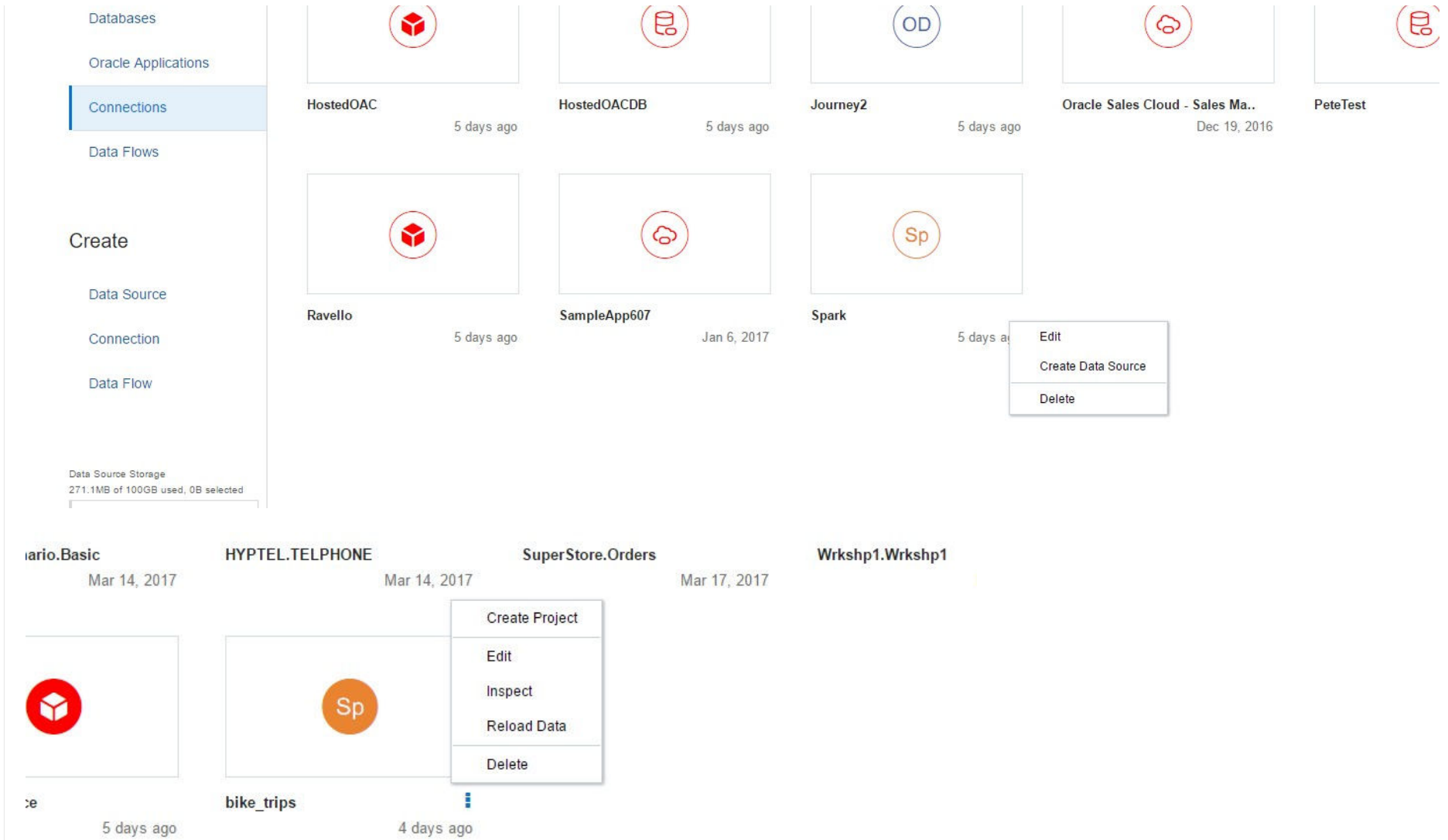
Download the CitiBike DVD Project here (https://raw.githubusercontent.com/oracle/learning-library/master/workshops/journey1-self-service-bi/DVData/CitiBikeSpark.dva)

- Open up DV Desktop
- From the home page click on the 3 dots on the top right and select Import
- Either drag and drop the file on the import page or find the CitiBikeSpark.dva
- Password is Admin123



- Once the project in imported, go into the Data Sources and Connections to change the host name and port to your BDCSCE instance. User name and password will also need to be update.
- Go into the data sources and verify that that table name that was imported matches your table name.




Databases
Oracle Applications
Connections
Data Flows
Create
Data Source
Connection
Data Flow
Data Source Storage
271.1MB of 100GB used, 0B selected
HostedOAC
5 days ago
HostedOACDB
5 days ago
Journey2
5 days ago
Oracle Sales Cloud - Sales Ma..
Dec 19, 2016
PeteTest
Ravello
5 days ago
SampleApp607
Jan 6, 2017
Spark
5 days ago
Edit
Create Data Source
Delete
ario.Basic
Mar 14, 2017
HYPTEL.TELPHONE
Mar 14, 2017
SuperStore.Orders
Mar 17, 2017
Wrkshp1.Wrkshp1
Create Project
Edit
Inspect
Reload Data
Delete
bike_trips
4 days ago
5 days ago

READY