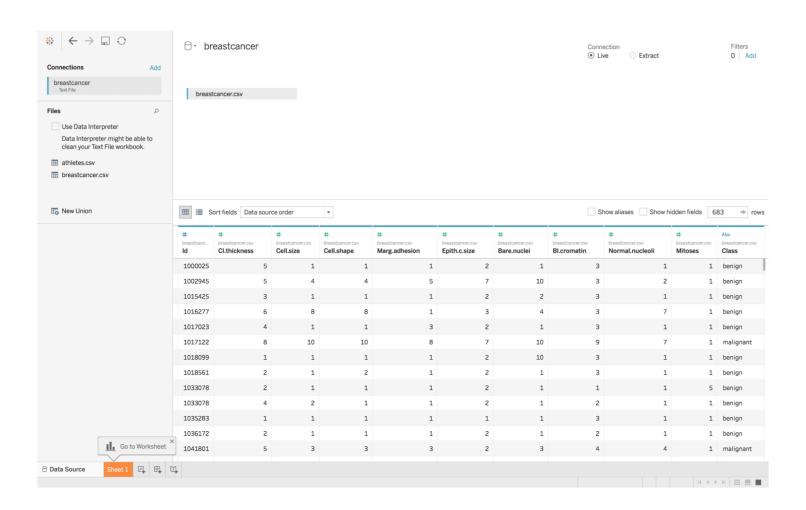
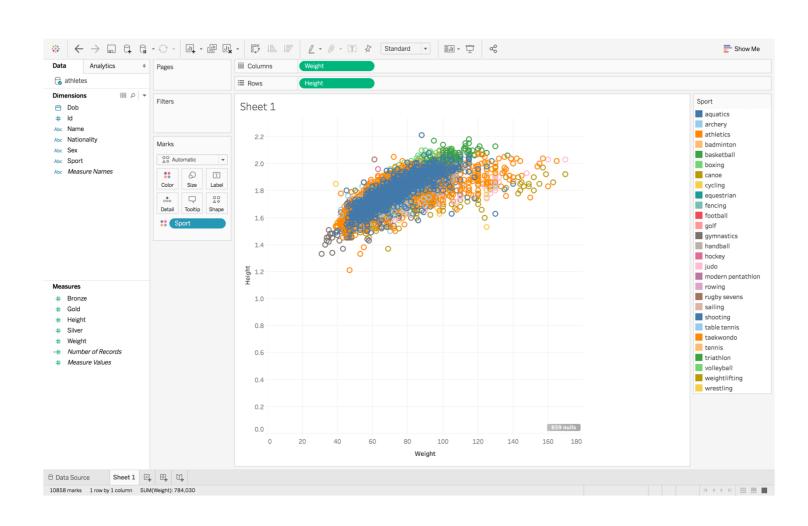
LAB: CLUSTERING

- Choose a dataset
- Choose the attributes for clustering
- Choose number of clusters

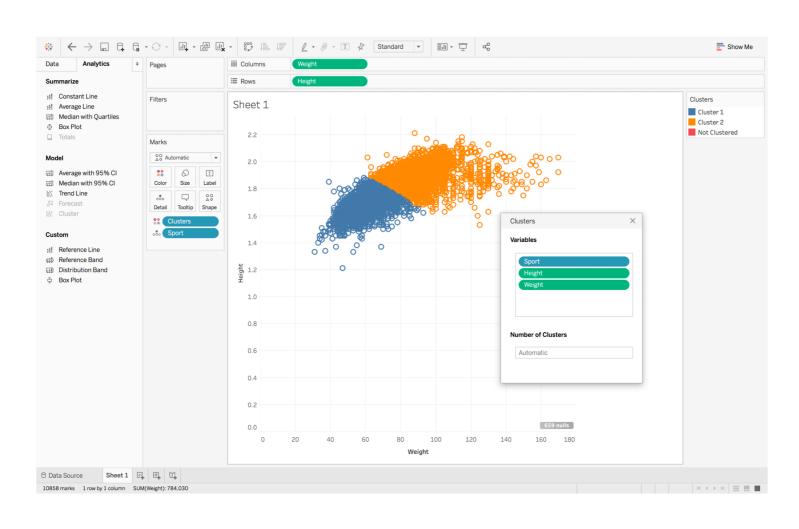
(Uses K-Means Clustering)

(using athletes.csv file)

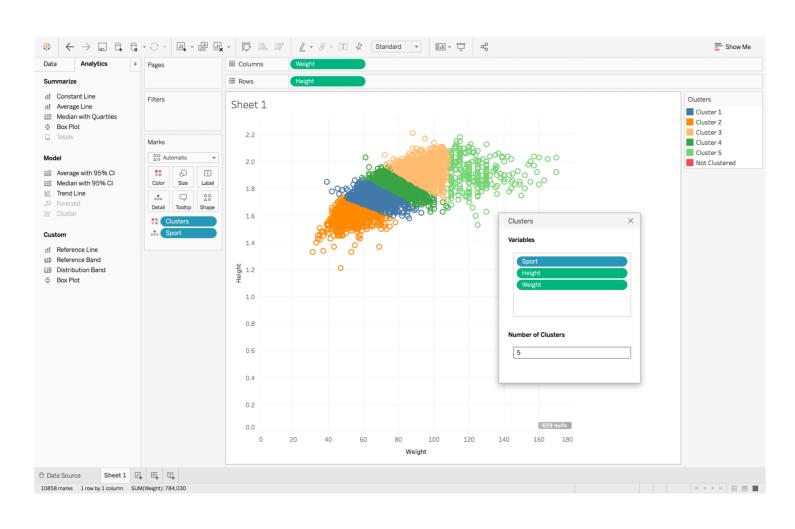




(Double click on clusters in Analytics tab)



(Changing number of clusters)



Hierarchical clustering

Look into the Jupyter notebook: 'Lab Clustering.ipynb'

Tabpy and DB Scan

https://github.com/tableau/TabPy

Tabpy Installation (Mac/Linux)

- Create a new conda environment
- >>conda create --name Tableau-Python-Server python=3.5 anaconda
- >>source activate Tableau-Python-Server
- >>pip install tabpy-server
- >>pip install --upgrade tabpy-server

Go to this directory: (For example) /Users/username/anaconda/envs/Tableau-Python-Server/lib/python3.5/site-packages/tabpy_server. You should find setup.sh file, just run it

>>./setup.sh

let this run...... It is just that you are running your server, don't stop it. (You can stop it by using control+C)

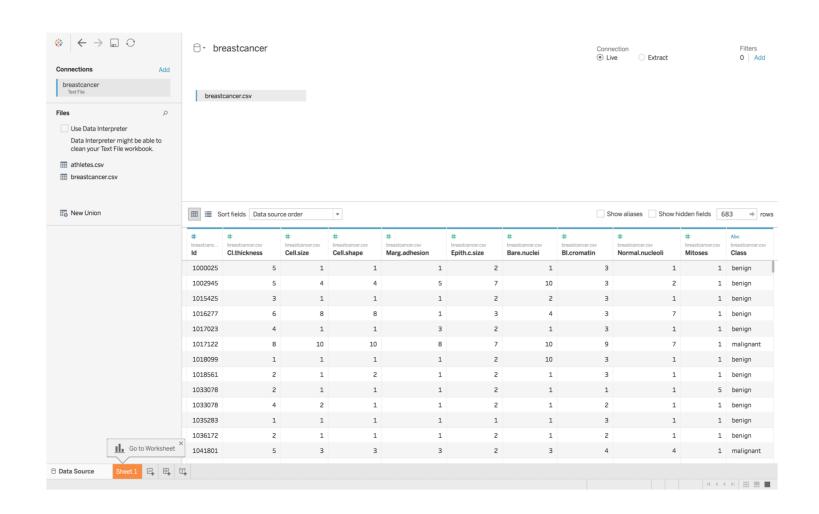
Execute below command in another termal

>>pip install tabpy-client

Tabpy

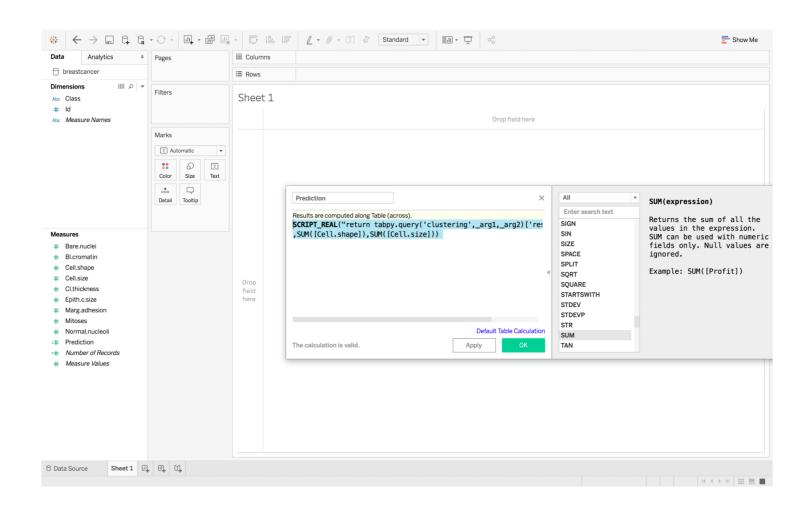
Look into 'tabpy_clustering.ipynb'

Using breastcancer.csv file



Create new calculated field 'Prediction'

SCRIPT_REAL("return tabpy.query('clustering',_arg1,_arg2)['response']",SUM([Cell.shape]),SUM([Cell.size]))



Prediction field in action

