Project: Realtime stock data analysis

How to use Tableau?

1. Installation

Download and install the Tableau Desktop and Hive ODBC connector

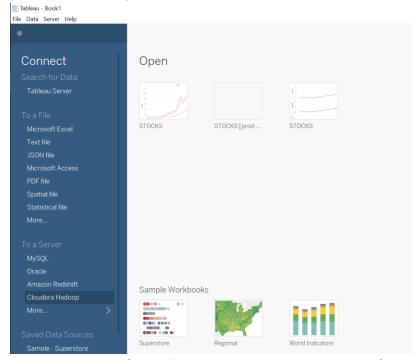
2. Connection with data source

1) First start hive server in cloudera

Type this command in terminal: sudo service hive-server2 start [cloudera@quickstart -]\$ sudo service hive-server2 start Started Hive Server2 (hive-server2): [OK] [cloudera@quickstart -]\$

2) Open the Tableau Desktop and connect to a server

In left pane under 'To a Server' section select 'Cloudera Hadoop' (Click 'More...' in case you don't see the option)



3) Input the server IP (Get it from Cloudera Quickstart Terminal)

Type: ifconfig in terminal

Select

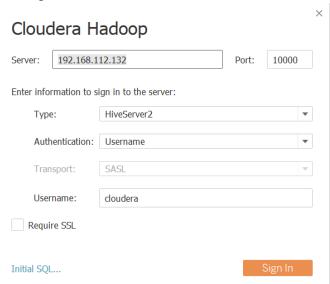
Type: HiveServer2

Authentication: Username

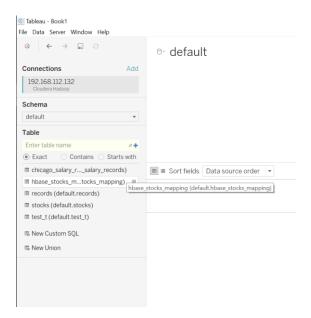
Username: cloudera

**Note: Don't change 'Port' and make sure you install the connector from above link in step 1.

Now Sign In

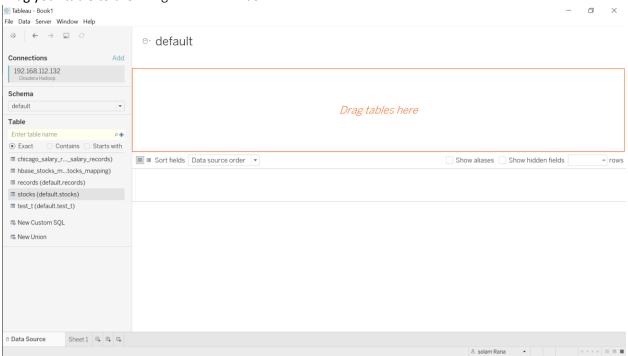


4) Select your 'Schema' and 'Table'

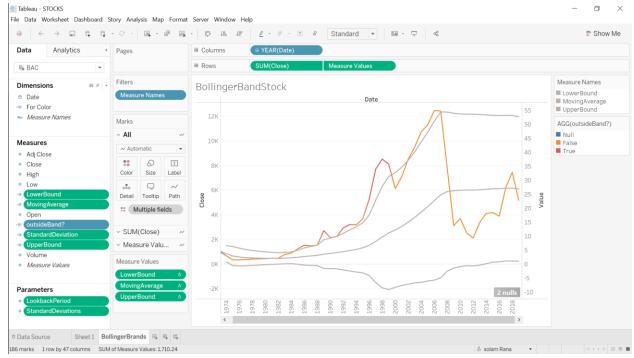


3. Loading data

Drag your table to the 'Drag tables here' box



4. Creating sheets



Drag your Dimensions/Measures/Parameters field in Columns and Rows as per need.

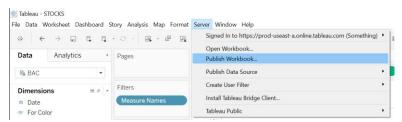
You can also create new Measures(LowerBound, MovingAverage, outsidBand?,

StandardDeviation, UpperBound) to make your visualization more efficient.

Create new Parameters(LookBackPeriod, StandardDeviations) to set some values needed to be applied in the visualization. (Algorithms for the measures are already mentioned in presentation Slide)

5. Publishing to the Tableau server

In toolbar go to Server tab and go to Publish WorkBook to publish it in the Tableau Server.



(Make sure you have logged in to the Tableau Server with credentials) Get your workbook published in Tableau Server

