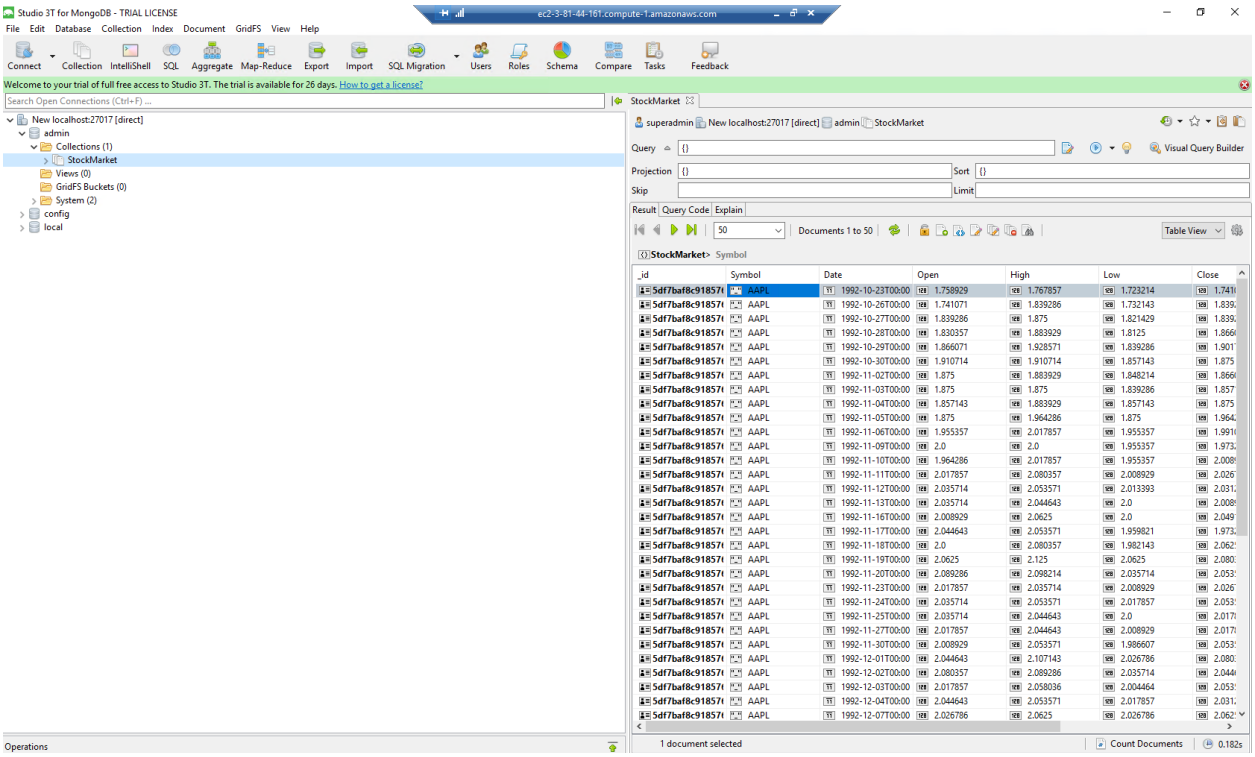
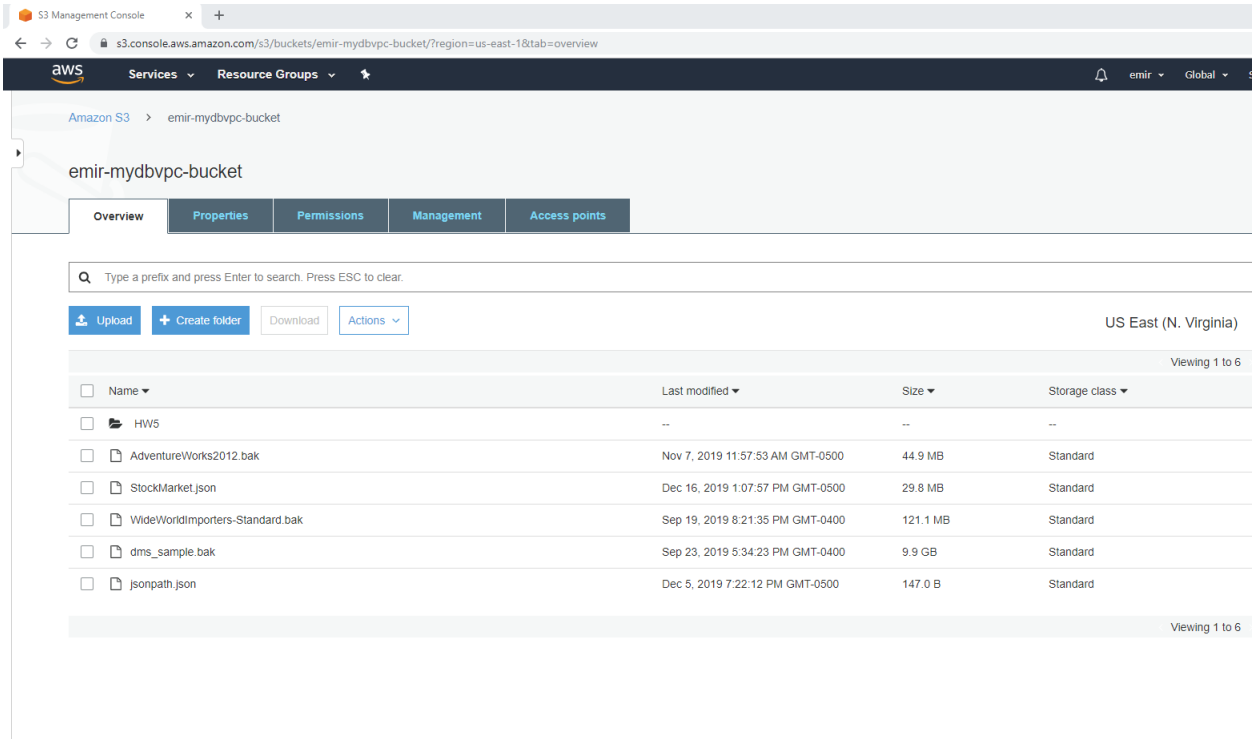
Project Step by Step

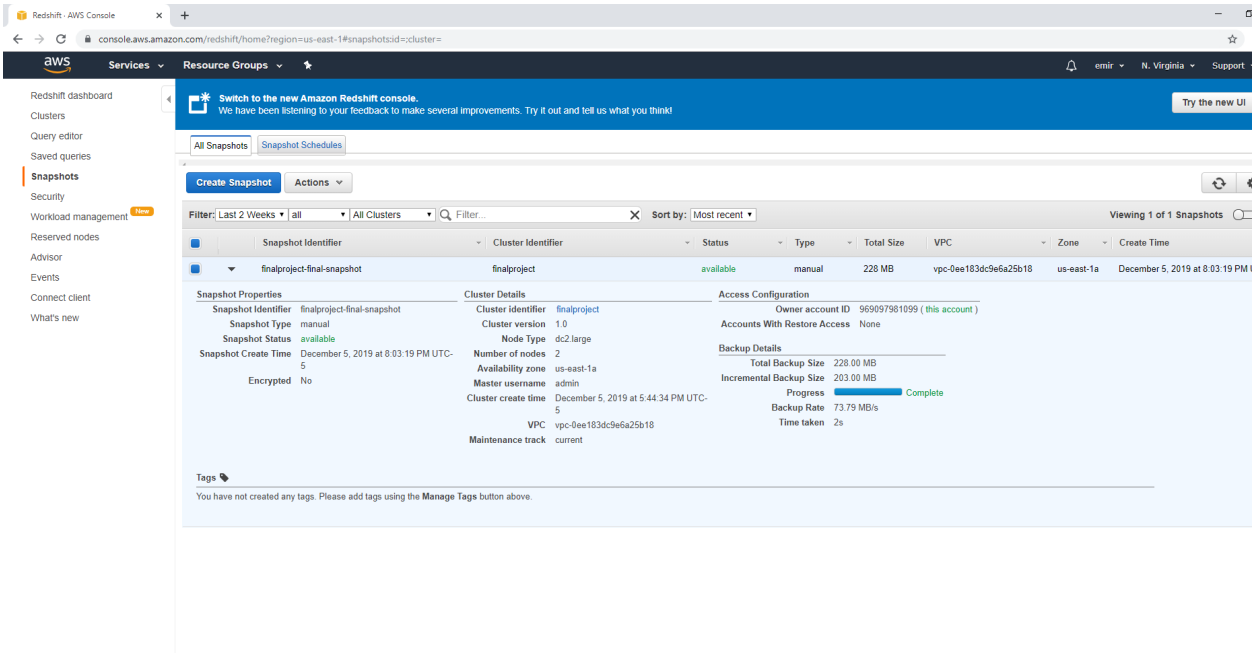
1) I imported all the data into one collection called StockMarket. Then export it as a json file.



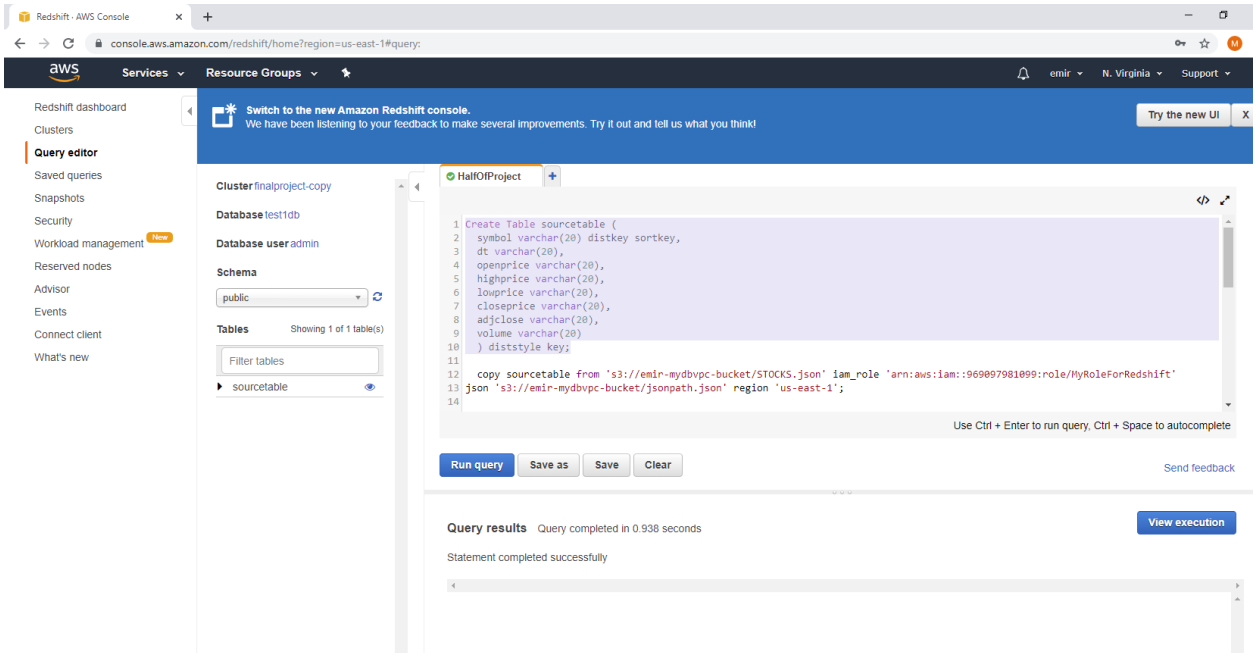
2) I uploaded my json file and json path to my S3 bucket.



3) I created a new cluster.

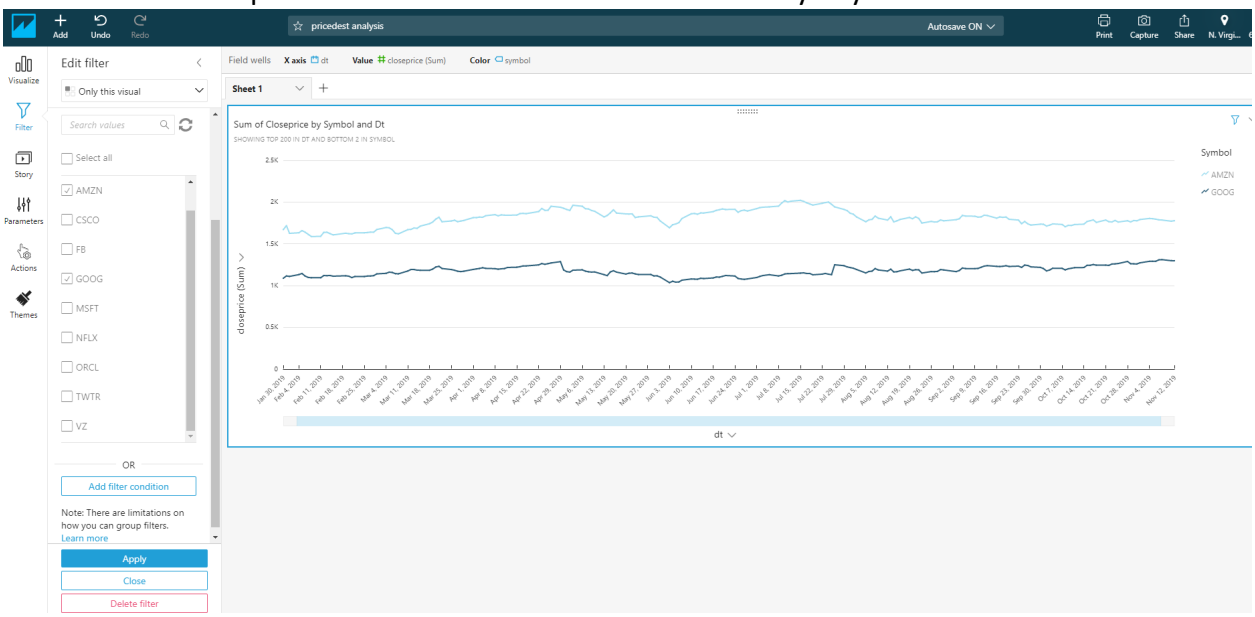


4) I run the script to create a new table and import my data from my S3 bucket to my Redshift cluster. I used the script that you gave us. I have created my source table, pricedest table and delete unnecessary records.

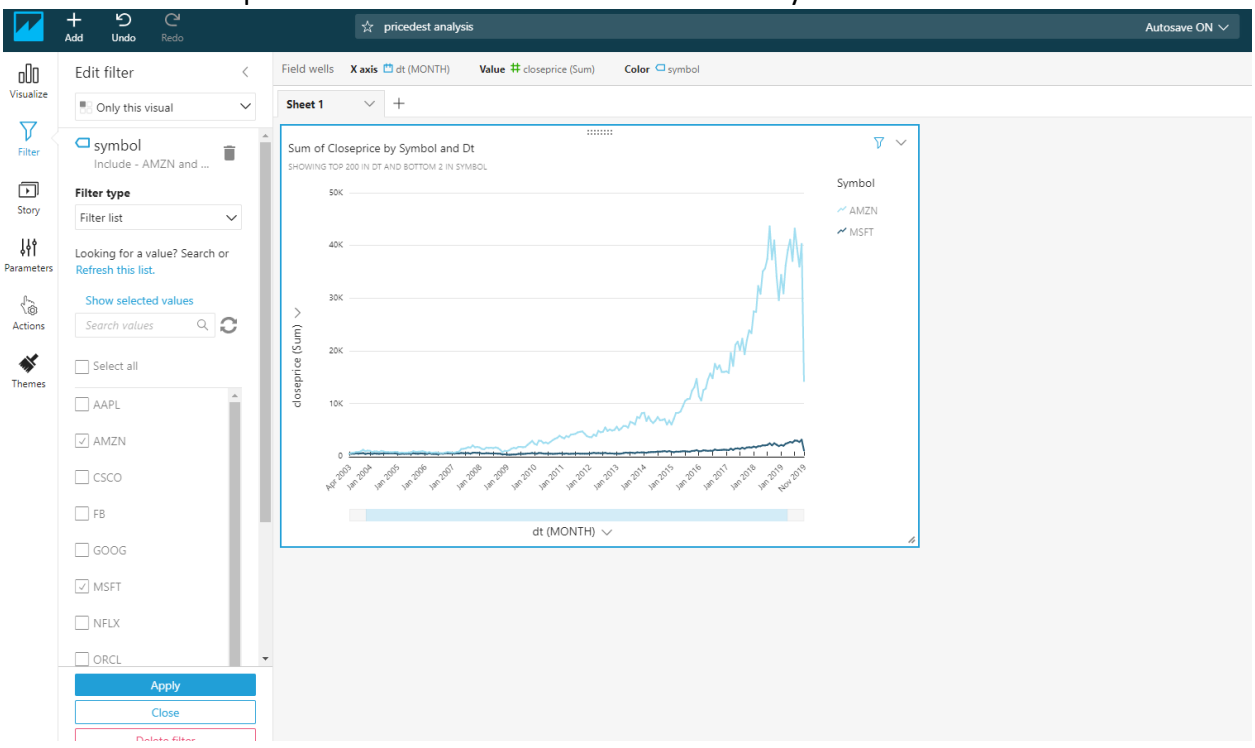


5) I connected my redshift to Quicksight I imported pricedest table to be able visualize price comparison charts. These charts show comparisons between Microsoft and amazon.

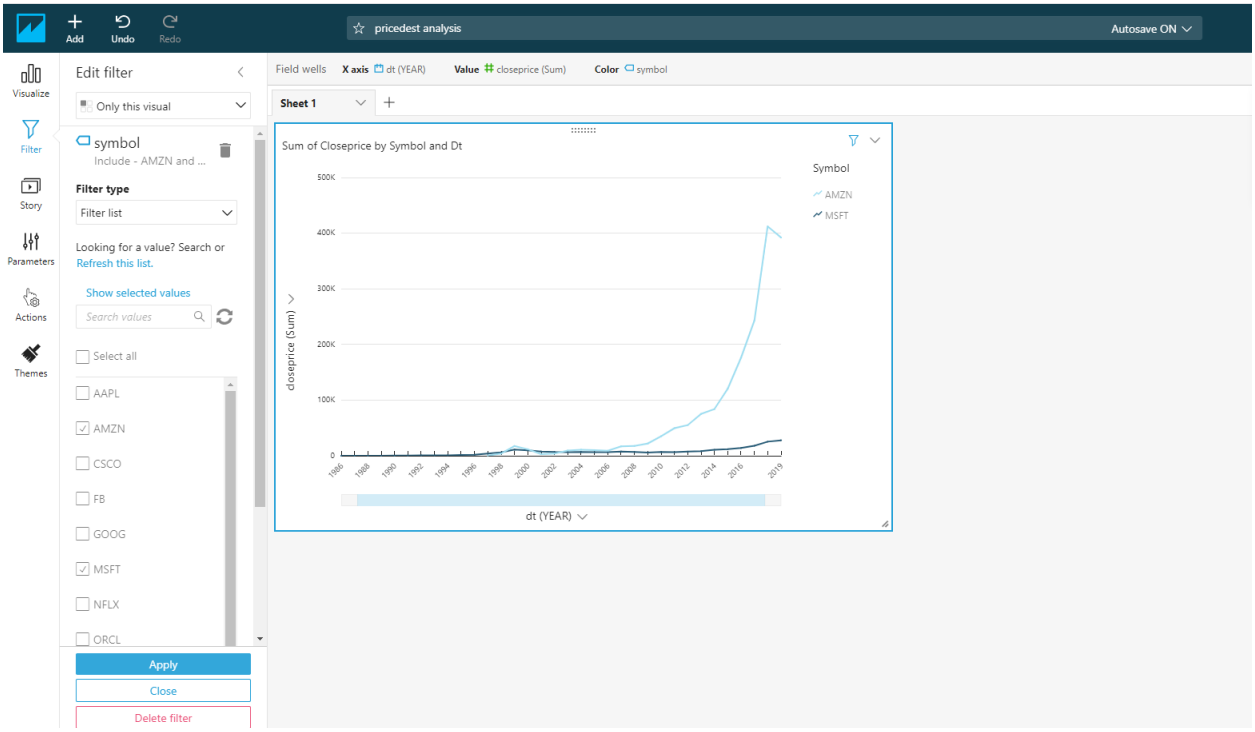
* Price comparison between Amazon and Microsoft by day.



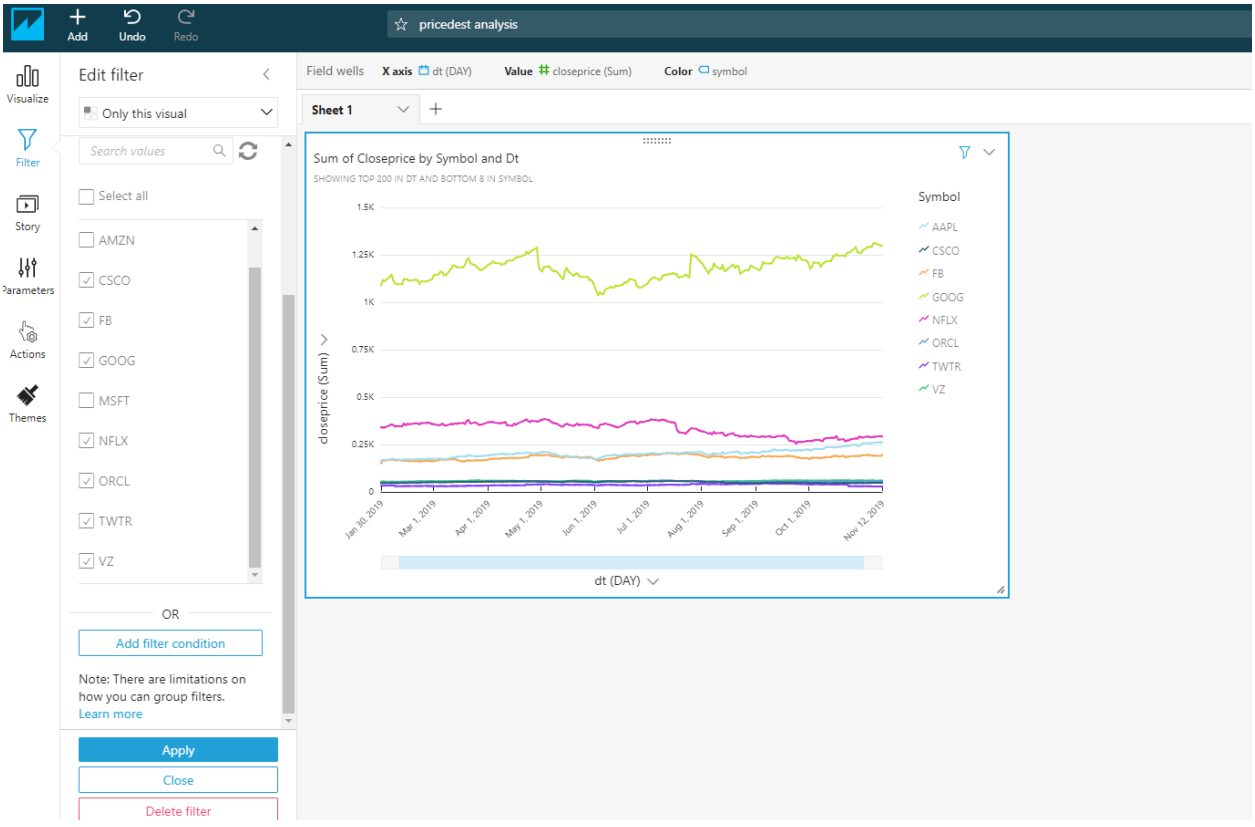
*Price comparison between Amazon and Microsoft by month.



*Price comparison between Amazon and Microsoft by year.

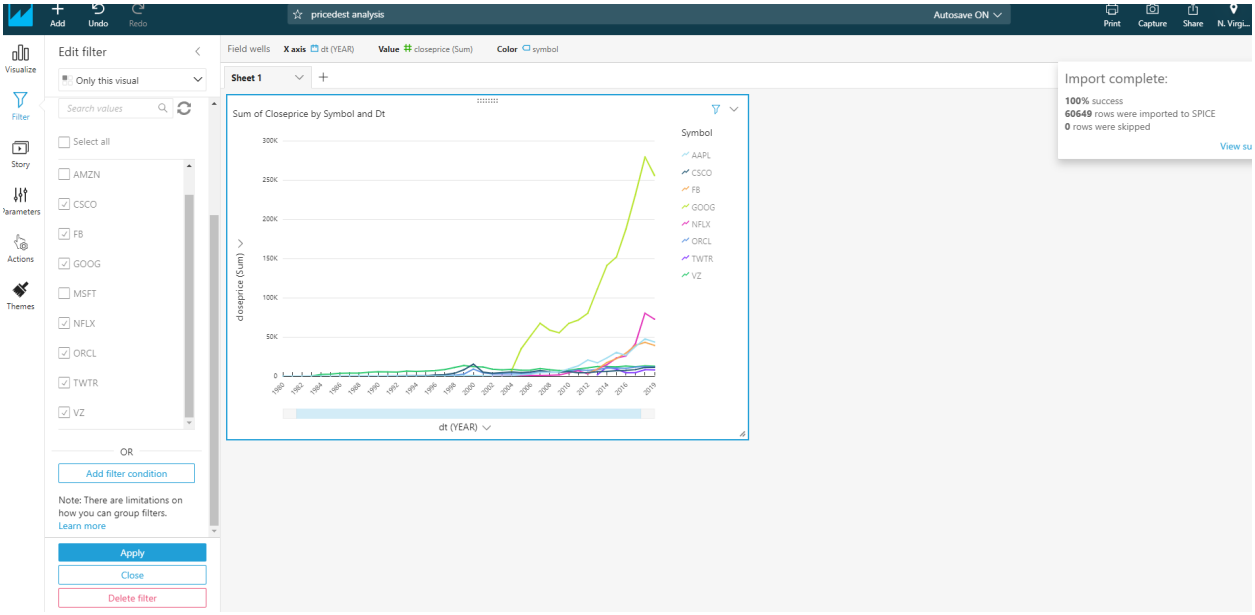


6) Price comparisons between other symbols that you asked in second question.
*By Day



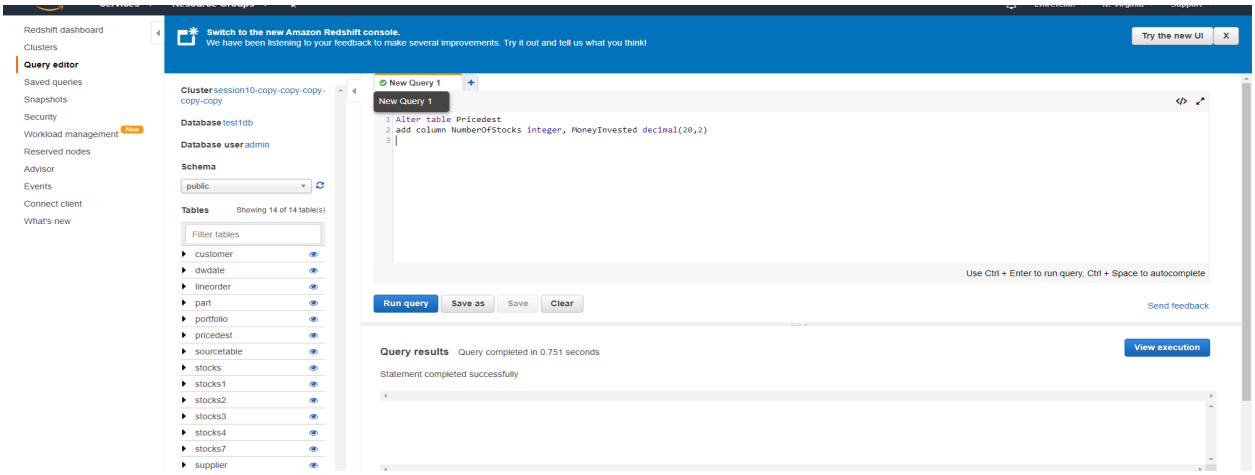
*By Months

*By Years

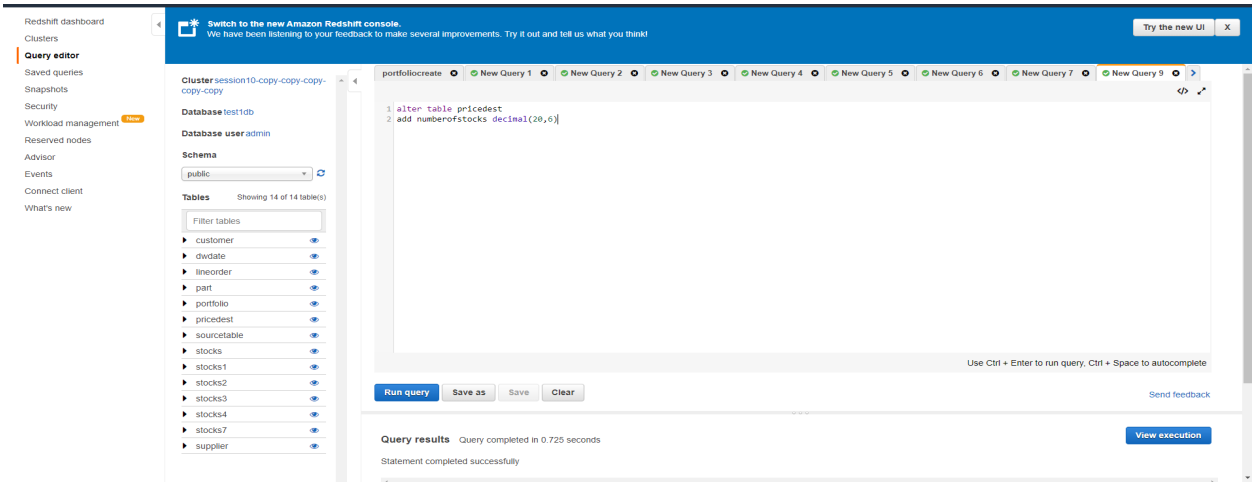


7) This is how we calculated profit portfolio in year 2019.

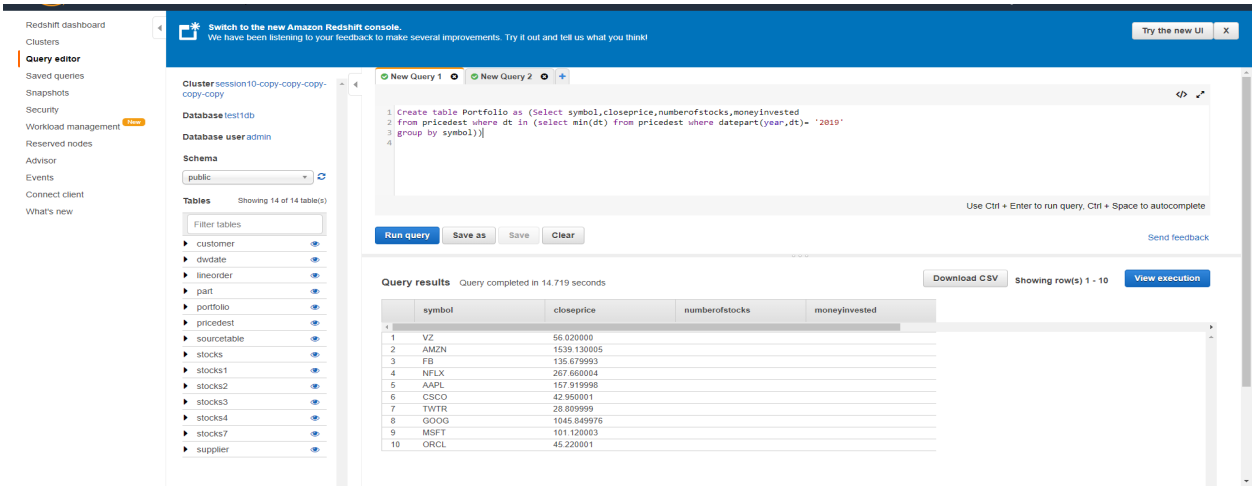
* I have added numberofstocks and moneyinvested columns.



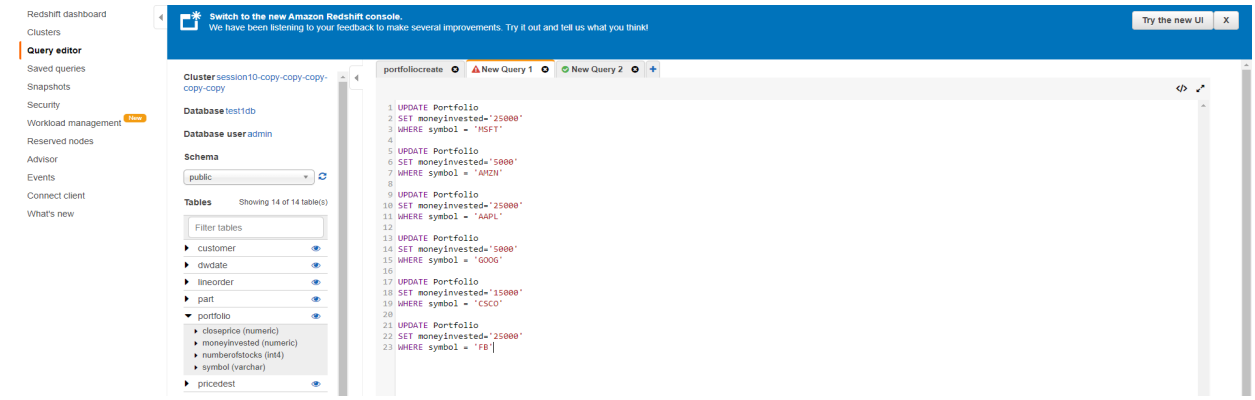
* I have dropped numberofstocks field and add it again as a decimal.



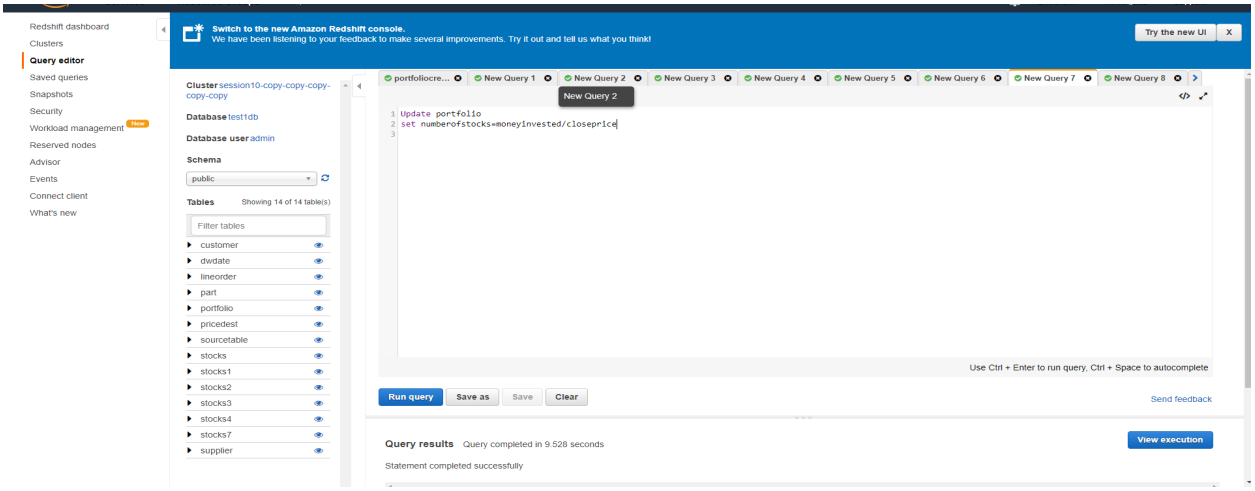
* I have created new portfolio table which is going to give me the close prices for each symbol and for the first day of 2019.



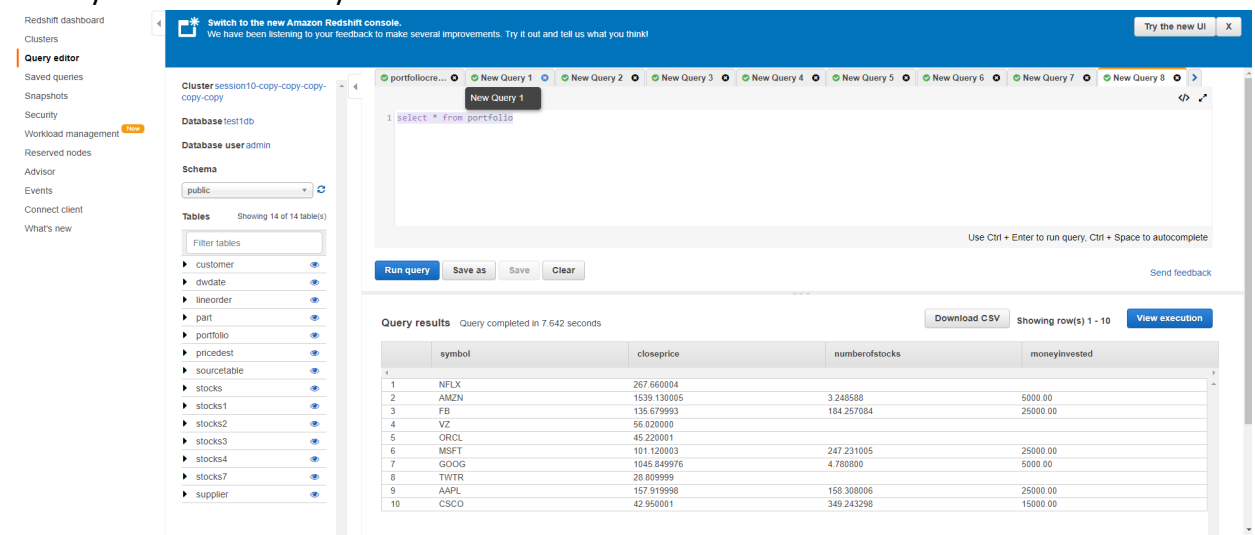
* I have calculated percentages of 100000 dollars and I have updated moneyinvested field for each symbol in portfolio table.



* I have updated numberofstocks field as calculated field (moneyinvested/closeprice=numberofstocks)

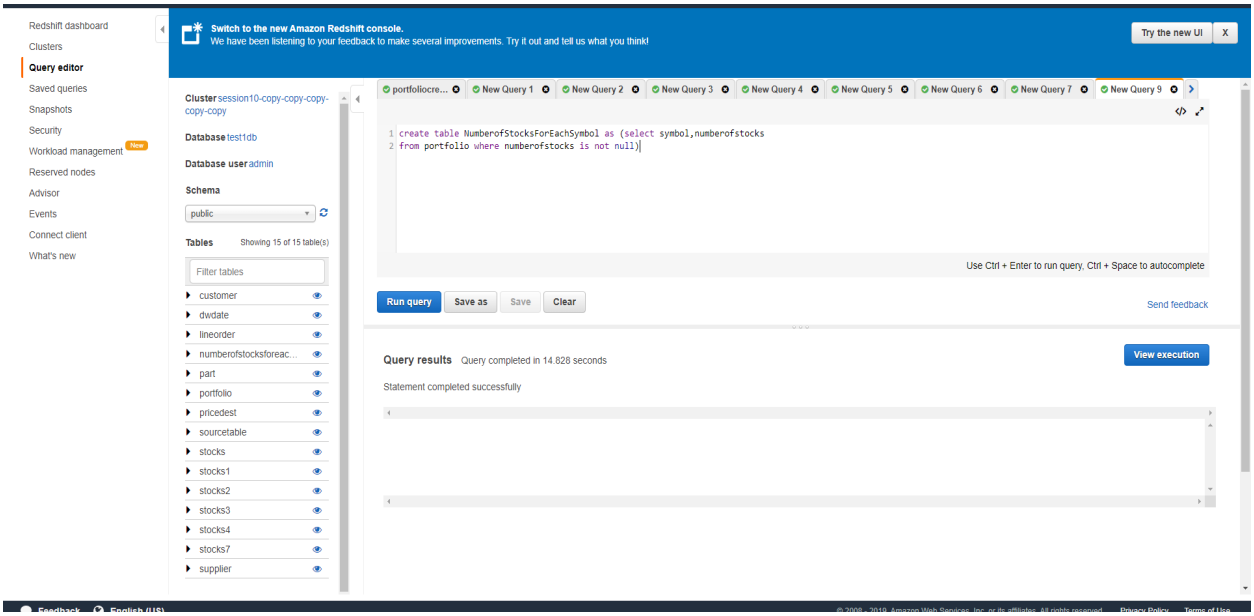


* In the end my table gave me the number of stocks which is bought by investor at January 1 2019 for each symbol.

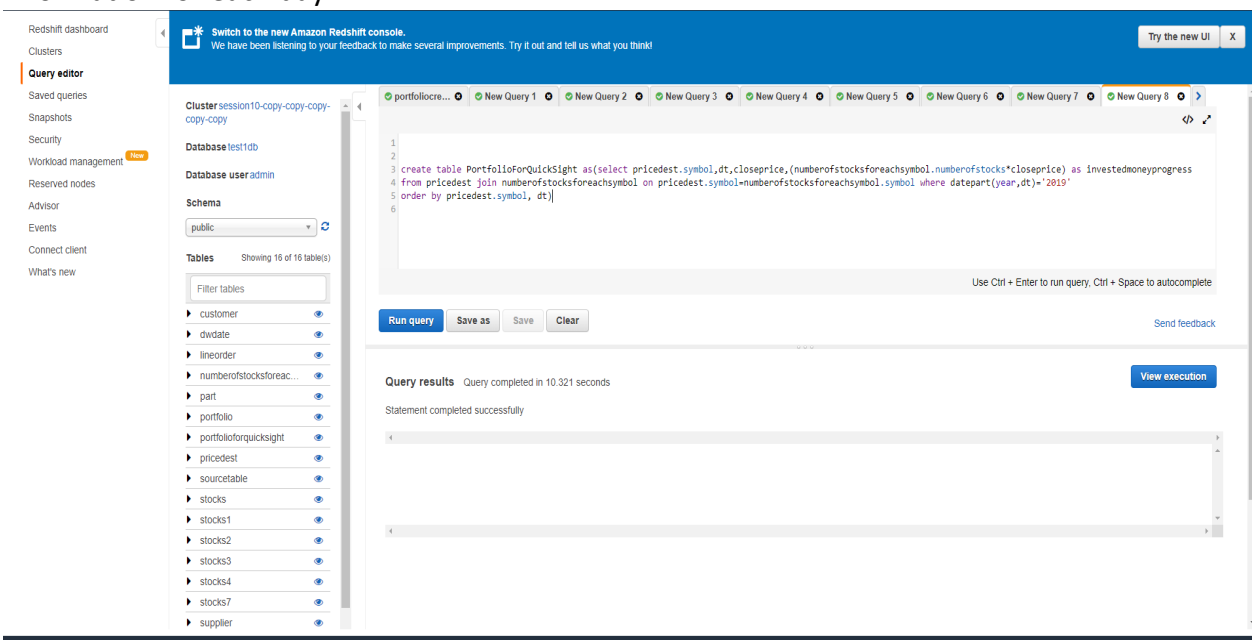


	symbol	closeprice	numberofstocks	moneyinvested
1	NFLX	267.660004		
2	AMZN	1539.130005	3.248588	5000.00
3	FB	135.679993	184.257084	25000.00
4	VZ	56.020000		
5	ORCL	45.220001		
6	MSFT	101.120003	247.231005	25000.00
7	GOOG	1045.849976	4.780800	5000.00
8	TWTR	28.809999		
9	AAPL	157.919998	158.308006	25000.00
10	CSCO	42.950001	349.243298	15000.00

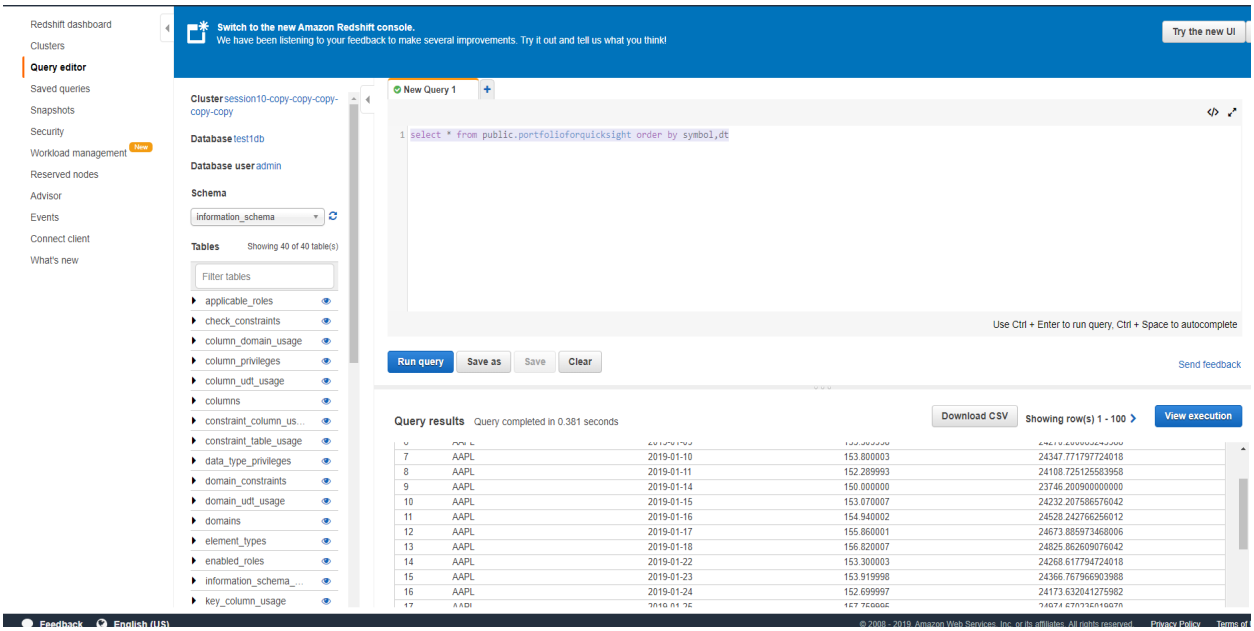
* I have created new table named”NumberofstocksForEachSymbol” and I had only two fields in this table which gives me the number of stocks which is bought by investor at January 1 2019 for each symbol.



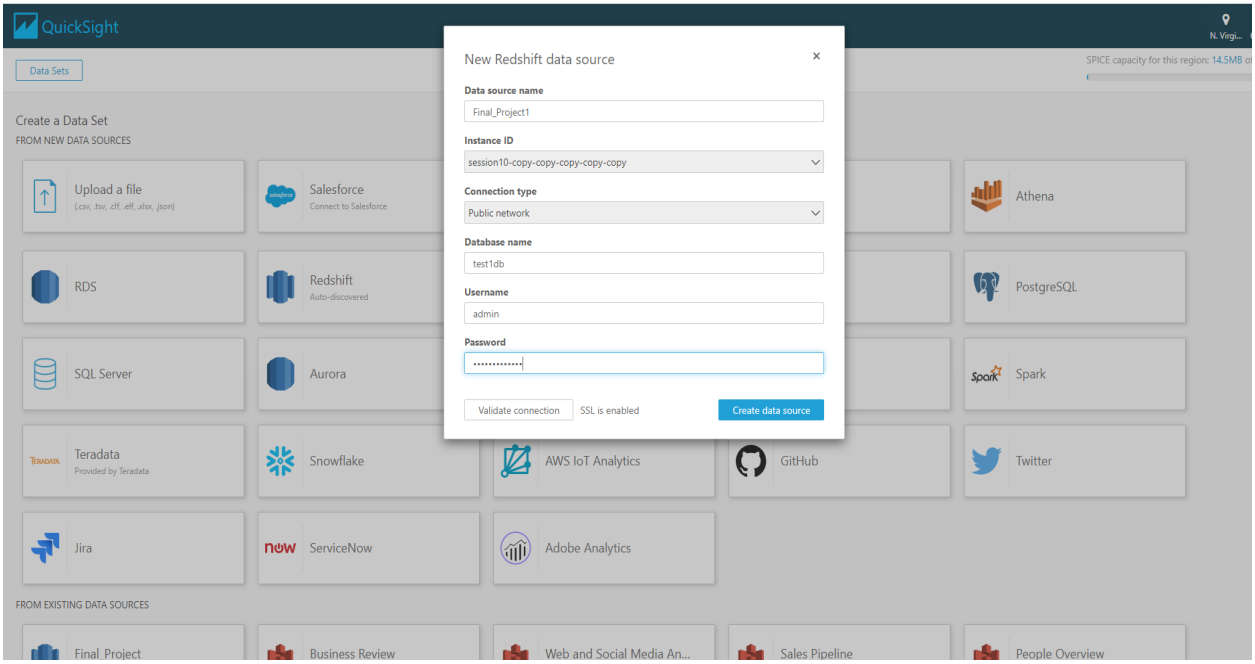
*Finally I have created my last table which is “PorfolioForQuickSight” by joining “pricedest” and ”NumberofstocksForEachSymbol” tables. I have created new calculated field in this table by multiplying numberofstocks and closeprice fields to get updated invested money information for each day.



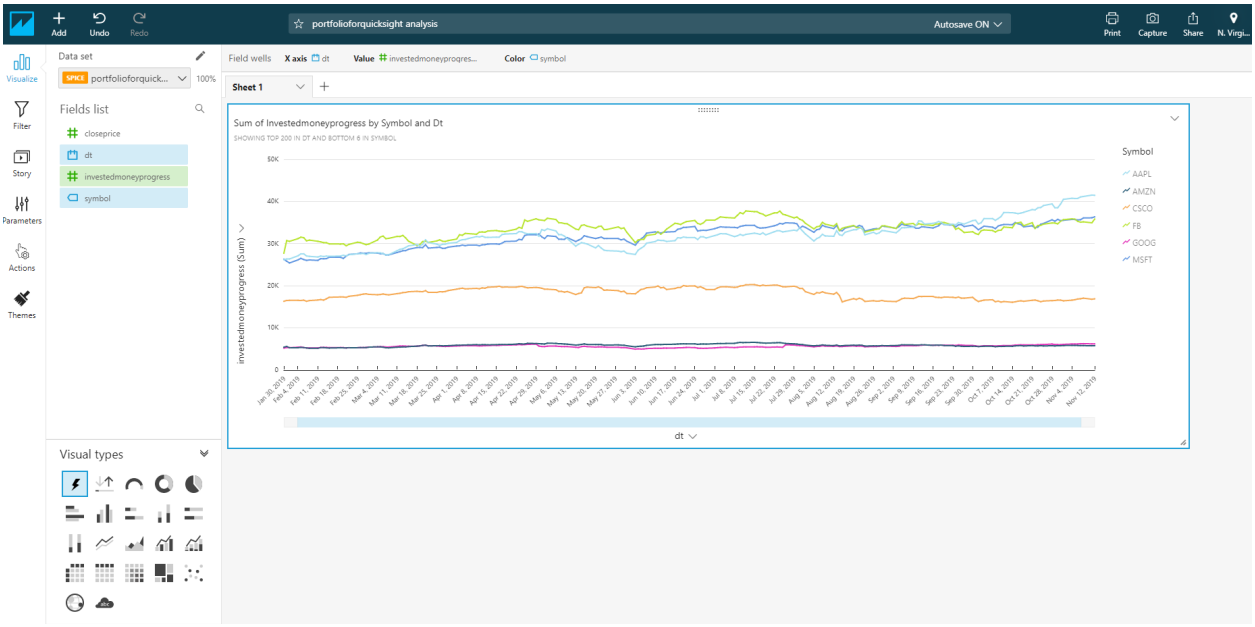
* The table has records for close prices of each symbol for each day of 2019 and invested money field gets updates every day.



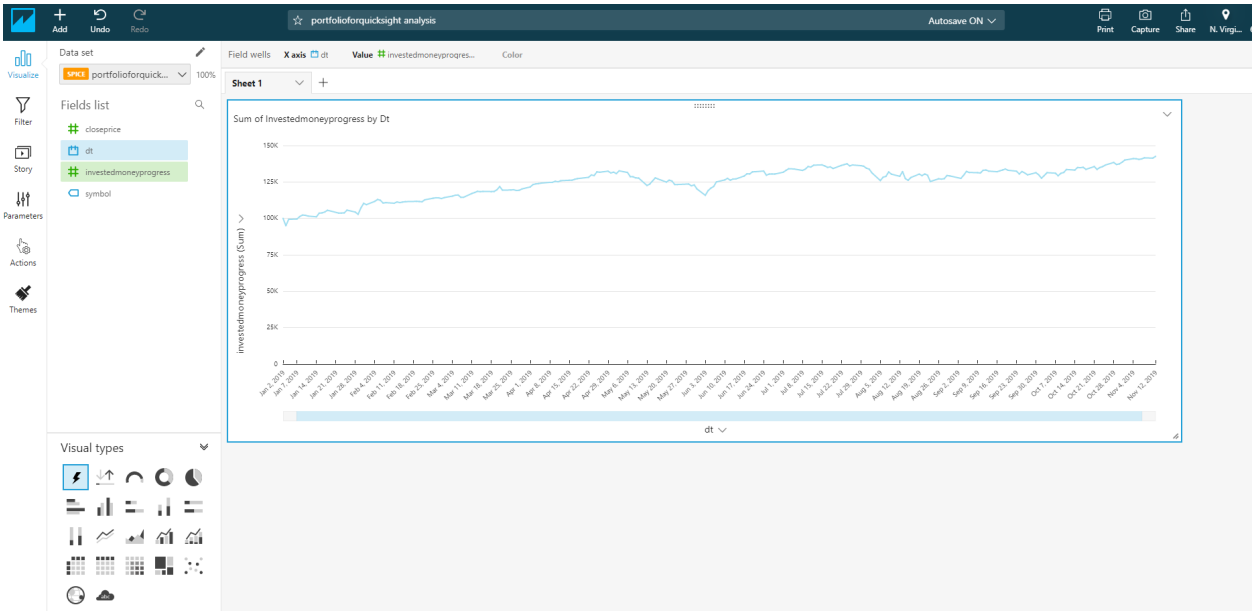
* I have connected my redshift cluster to Quicksight



* That chart shows portfolio change for each symbol during 2019



* When we remove symbol from color tab, it shows total investment change during 2019.



*Beginning and end of table chart for same information.