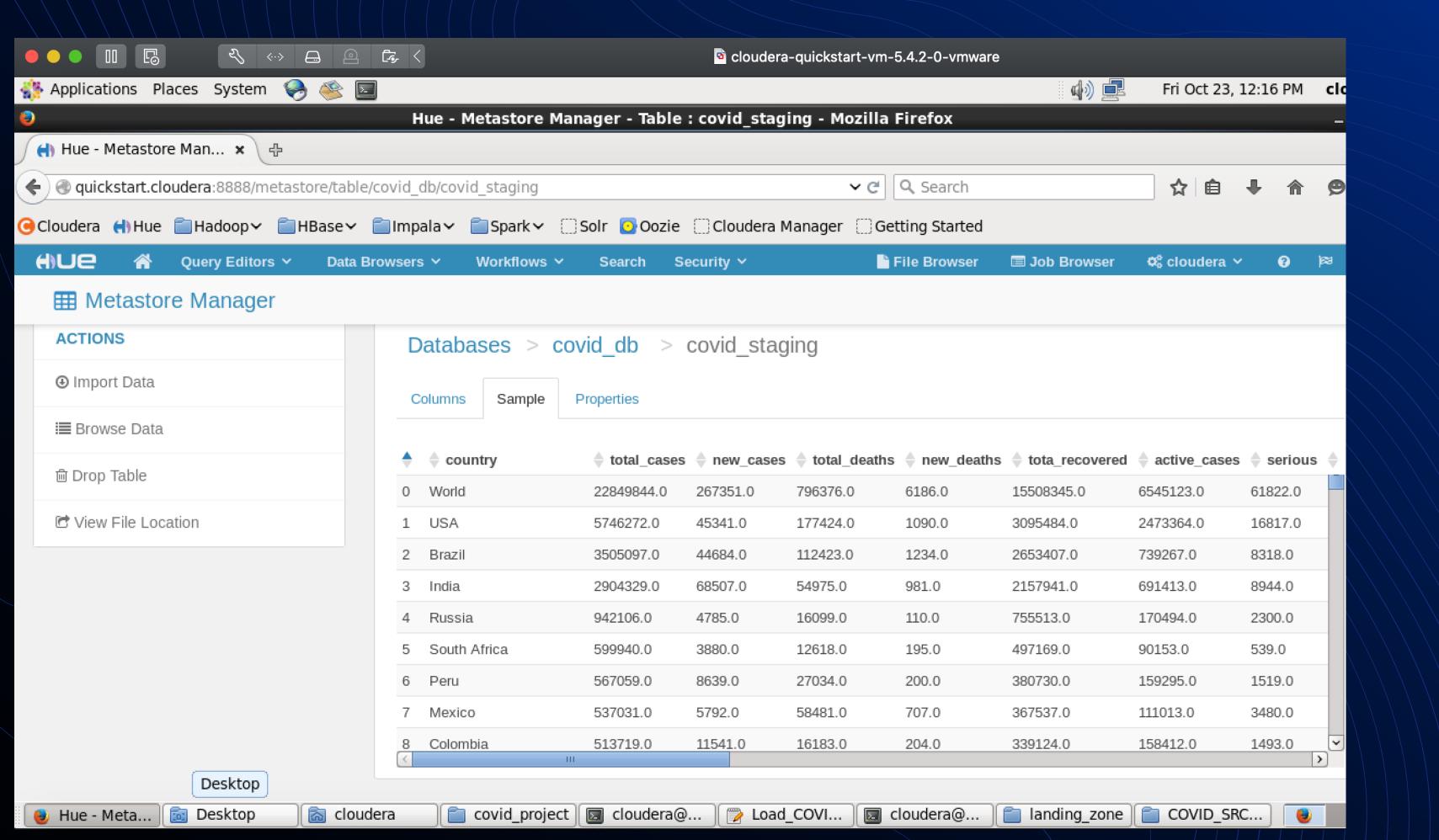
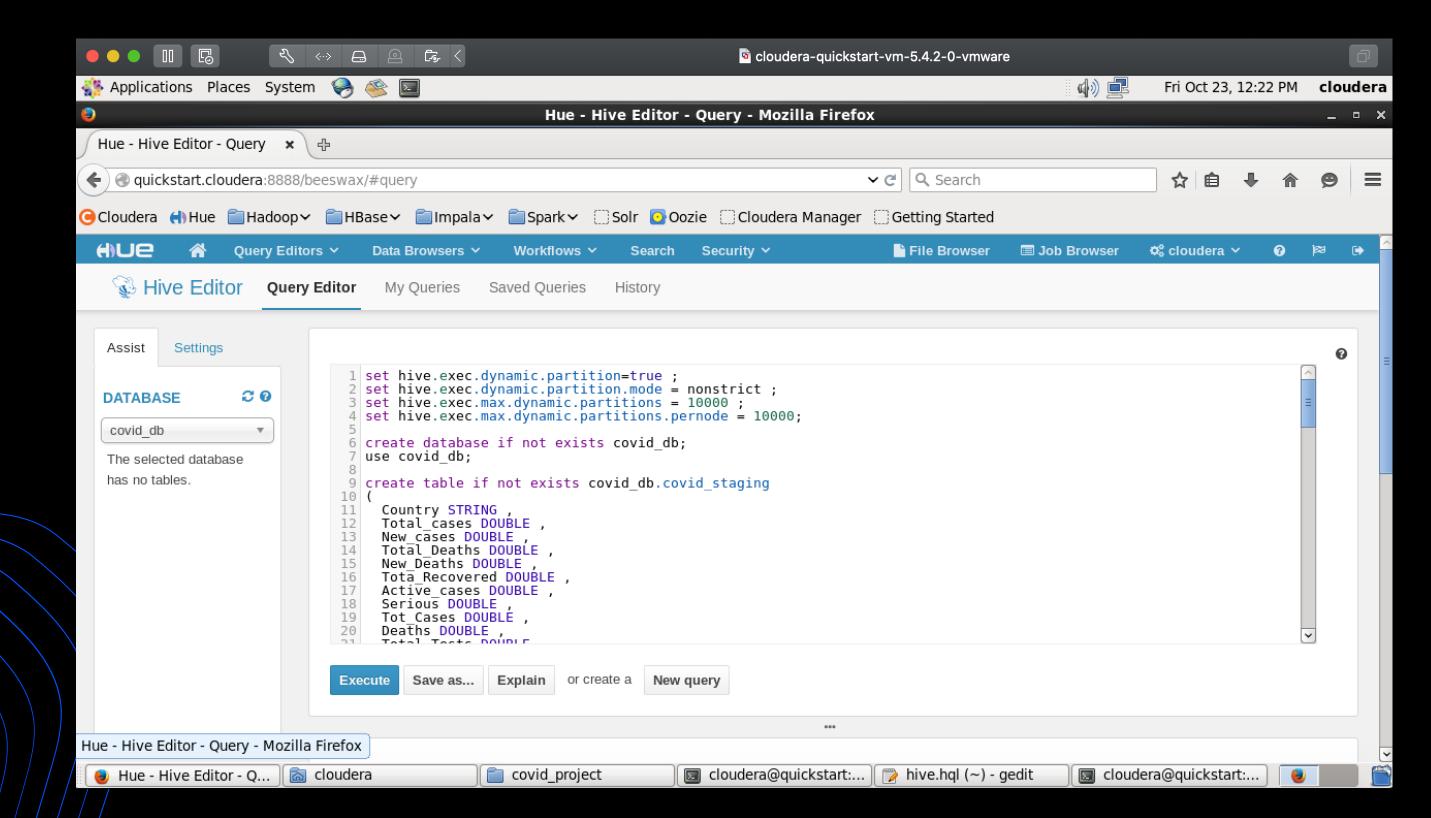
LOADING DATA AND HDFS

- Get the covid 19.csv file into virtual machine
 - I use macbook so i used drag and drop on my VMware fusion Virtual machine to copy files from my native OS to virtual machine
- Create directory "/home/cloudera/covid_project/landing_zone/COVID_SRC_LZ" on vm and add covid19.csv file on it
- Add the dataset from "COVID_SRC_LZ" to HDFS directory "/user/cloudera/ds/COVID_HDFS_LZ" by using the script "Load_COVID_TO_HDFS.sh"



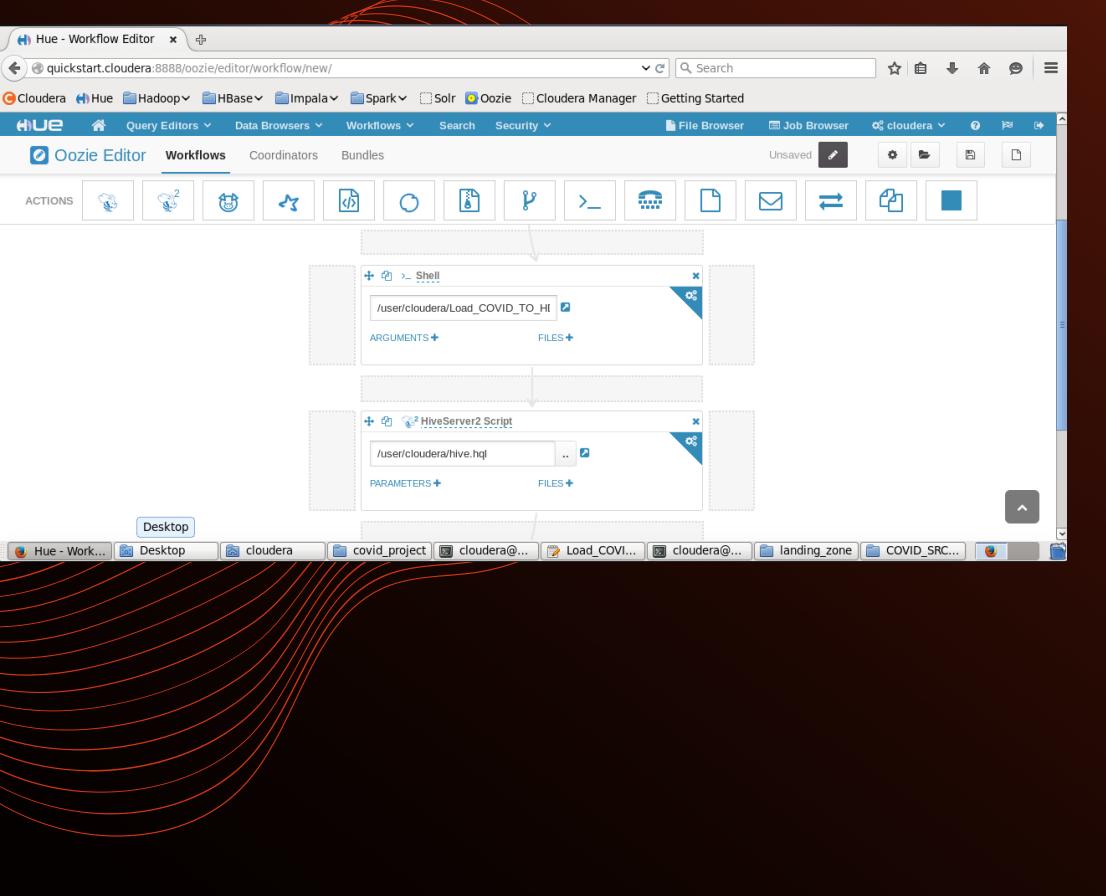
- Create database (covid_db) and different schema for each Hive loading stage
 - Hive staging table for pointing to dataset location to select data from
 - ORC table is partitioned by Cofinal reportuntry
 - o final report output table to visualize in further steps
- I used hive.hql script to execute the above commands
- *Note* :
 - the provided .hql file was not running so I modified it becaues it had some typos and some missing commands
 - I needed to rewrite the whole commands all over again in texteditor in cloudera vm as they don't work if I copied them directly to vm

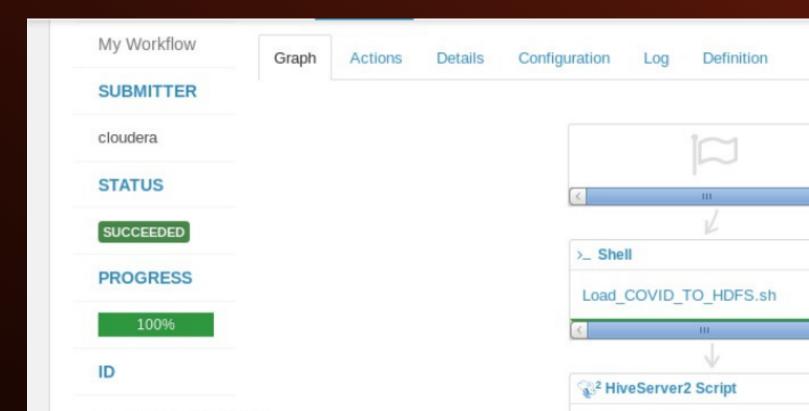


OOZEWORKFLOW

- I used oozie workflow from Hue to execute the terminal .sh command first "Load_COVID_TO_HDFS.sh" and then run the .hql hive script created from above step after "hive.hql" to get out the output files
- Note:
 - I ran the following script to get single csv ouptut file to use on Microsoft power Bi
 - ceho "TOP_DEATH,RANK_D,DEATHS,
 TOP_TEST,RANK_T,TESTS" > output.csv
 cat 000000_0_copy_2 >> output.csv
 cat 000000 0 copy 3 >> output.csv)

OOZIE WORKFLOW





VISUALIZATION

• Using Microsoft PowerBi to visualize the results extracted from output.csv

