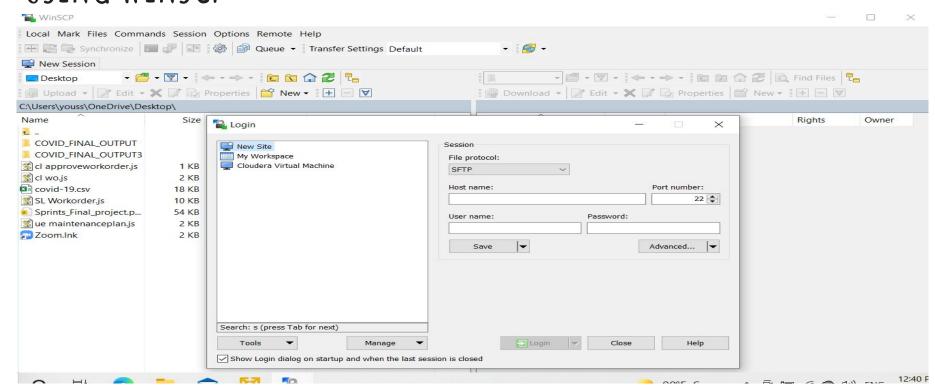
BIG DATA PROJECT

FIRST I STARTED BY UPLOADING THE CSV FILE TO THE MACHINE USING WINSCP



THEN I MOVED THE CSV FILE FROM THE VIRTUAL MACHINE FILE SYSTEM TO THE HADOOP FILE SYSTEM USING THIS COMMANDS

```
#!/bin/bash

#Landing Zones in Linux and HDFS
LINUX_LANDING_AREA=/home/cloudera/covid_project/landing_zone/COVID_SRC_LZ
HDFS_LZ=/user/cloudera/ds/COVID_HDFS_LZ

echo "GLOBAL Variables= " $LINUX_LANDING_AREA ", " $HDFS_LZ

hdfs dfs -mkdir -p $HDFS_LZ
echo "COVID_HDFS_LZ CREATED sucessfully"

hdfs dfs -put $LINUX_LANDING_AREA/covid-19.csv $HDFS_LZ
echo "covid-19.csv dataset LOADED sucessfully"
```

AFTER THAT I OPENED THE CLOUDERA THROUGH WEBSITE AND THE HIVE EDITOR I STARTED RUNNING THIS COMMANDS ONE AFTER

ANOTHER

```
CREATE database covid db;
use covid db;
SET hive exec max dynamic partitions=500000:
SET hive.exec.max.dvnamic.partitions.pernode = 500000:
SET hive.exec.dynamic.partition=true;
SET hive exec dynamic partition mode=nonstrict:
CREATE TABLE IF NOT EXISTS covid db.covid staging
 Country
                                       STRING,
 Total Cases
                                             DOUBLE.
 New Cases
                                       DOUBLE,
                                       DOUBLE,
 Total Deaths
 New Deaths
                                       DOUBLE,
 Total Recovered
                                       DOUBLE.
 Active Cases
                                       DOUBLE,
 Serious
                                      DOUBLE.
 Tot Cases
                                      DOUBLE.
                                      DOUBLE,
 Deaths
 Total Tests
                                           DOUBLE,
                                           DOUBLE.
 Tests
 CASES per Test
                                       DOUBLE,
 Death in Closed Cases
                                         STRING
 Rank_by_Testing_rate
                                         DOUBLE,
 Rank by Death rate
                                         DOUBLE.
 Rank by Cases rate
                                         DOUBLE.
 Rank by Death of Closed Cases
ROW FORMAT DELIMITED FIELDS TERMINATED by ','
STORED as TEXTFILE
LOCATION '/user/cloudera/ds/COVID HDFS LZ'
tblproperties ("skip.header.line.count"="1");
```

```
CREATE EXTERNAL TABLE IF NOT EXISTS covid db.covid ds partitioned
 Country
Total Cases
                                        STRING,
                                             DOUBLE.
 New Cases
                                        DOUBLE.
 Total Deaths
                                        DOUBLE,
 New Deaths
                                        DOUBLE,
 Total Recovered
                                        DOUBLE.
 Active Cases
                                       DOUBLE.
                                      DOUBLE,
 Serious
 Tot Cases
                                      DOUBLE,
 Deaths
                                       DOUBLE,
 Total_Tests
                                            DOUBLE.
                                            DOUBLE,
 Tests
                                       DOUBLE,
 CASES_per_Test
 Death_in_Closed_Cases
Rank_by_Testing_rate
                                          STRING.
                                          DOUBLE,
 Rank_by_Death_rate
                                          DOUBLE.
                                          DOUBLE
 Rank by Cases rate
 Rank by Death of Closed Cases
                                      DOUBLE
PARTITIONED BY (COUNTRY NAME STRING)
LOCATION '/user/cloudera/ds/COVID HDFS PARTITIONED';
covid db.covid staging
INSERT INTO TABLE covid_db.covid_ds_partitioned PARTITION(COUNTRY_NAME
SELECT *. Country WHERE Country is not null;
DROP TABLE IF EXISTS covid final output:
CREATE EXTERNAL TABLE covid db.covid final output
                               STRING.
 Country
TOP DEATH
                                   STRING
TOP TEST
                              STRING
PARTITIONED BY (COUNTRY NAME STRING)
ROW FORMAT DELIMITED FIELDS TERMINATED by "."
STORED as TEXTFILE
LOCATION '/user/cloudera/ds/COVID_FINAL_OUTPUT'
FROM
covid_db.covid_ds_partitioned
INSERT INTO TABLE covid_db.covid_final_output PARTITION(COUNTRY_NAME)
SELECT Country, Rank_by_Testing_rate, Rank_by_Death_rate, Country
WHERE Country is not null;
```

AFTER WORKING WITH HIVE EDITOR I WORKED ON OOZIE WORKFLOW I DIVIDED THE FULL HIVE SCRIPT INTO 3 SCRIPTS FOR CREATION OF TABLE ,STAGING AND LOADING DATA INTO THE FINAL TABLE NAMED AS HQLSCRIPTI THEN 2 THEN 3.

	Sprints_Project	
	K	
Hive Script		
hqlscript1.hql		
	4	
Hive Script		
hqlscript2.hql		
	4	
Hive Script		
hqlscript3.hql		
	7	
	ES	

AFTER GETTING THE COVID FINAL OUTPUT FILE AND MOVING IT FROM THE HADOOP FILE SYSTEM TO THE VIRTUAL MACHINE FILE SYSTEM USING COMMAND COPYTOLOCALE AND THEN TO MY MACHINE I STARTED DOING THE VISUALIZATIONS





