# **OLYMPIC DATA ANALYSIS PROJECT**

# **REPORT**

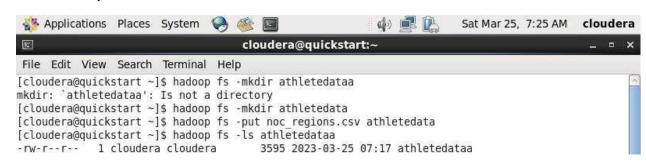
In this project, I first loaded Olympic dataset on cloudera machine by creating shared folder both on windows and linux OS.

Then I create directory to load the csv files into it using hadoop and log in to hive shell. In hive I created table of data from csv file, run queries and do analysis of data.

## 1) Creating Directory and Loading csv files into it

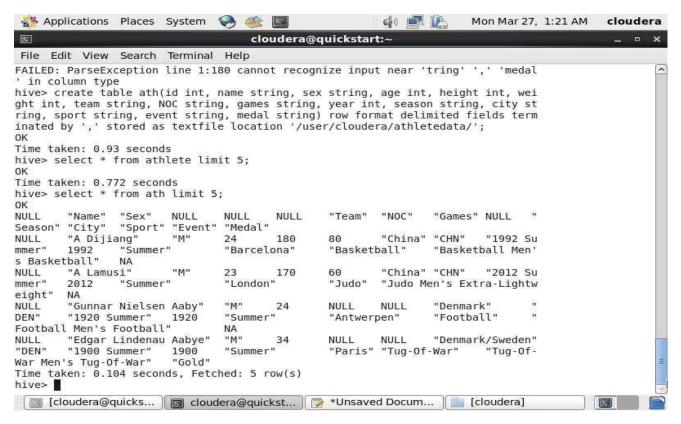
## Command:

- \$ hadoop fs -mkdir athletedata
- \$ hadoop fs -put noc\_regions.csv athletedata
- \$ hadoop fs -put athlete events.csv athletedata
- \$ hadoop fs -ls athletedata





## 2) Creating Tables

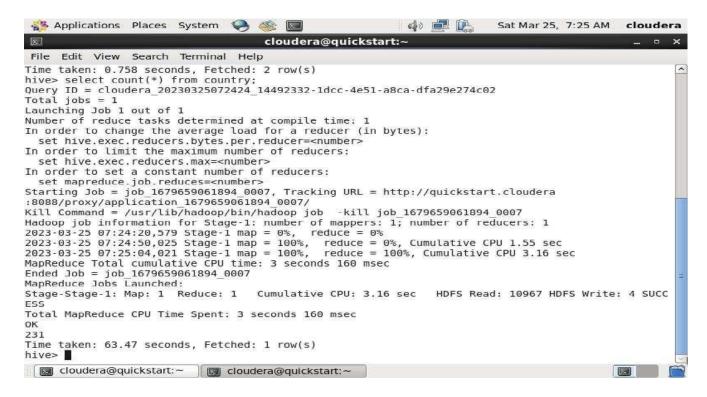


```
Sat Mar 25, 7:25 AM cloudera
Applications Places System 🤪 🚳 💹
                                                         cloudera@quickstart:~
 File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop fs -mkdir athletedataa
mkdir: 'athletedataa': Is not a directory
[cloudera@quickstart -]$ hadoop fs -mkdir athletedata
[cloudera@quickstart ~]$ hadoop fs -put noc_regions.csv athletedataa
[cloudera@quickstart ~]$ hadoop fs -ls athletedataa
-rw-r--r-- 1 cloudera cloudera
[cloudera@quickstart ~]$ hive
                                                            3595 2023-03-25 07:17 athletedataa
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.p
roperties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> use trial;
Time taken: 0.28 seconds
hive> create table country(noc string, region string, notes string) row format d elimited fields terminated by ',' stored as textfile location '/user/cloudera/at
hletedata/';
Time taken: 0.233 seconds
hive> select * from country limit 2;
OK
NOC
AFG
            Afghanistan
Arg Argnanistan
Time taken: 0.758 seconds, Fetched: 2 row(s)
hive> select count(*) from country;
Ouery ID = cloudera_20230325072424_14492332-1dcc-4e51-a8ca-dfa29e274c02
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1

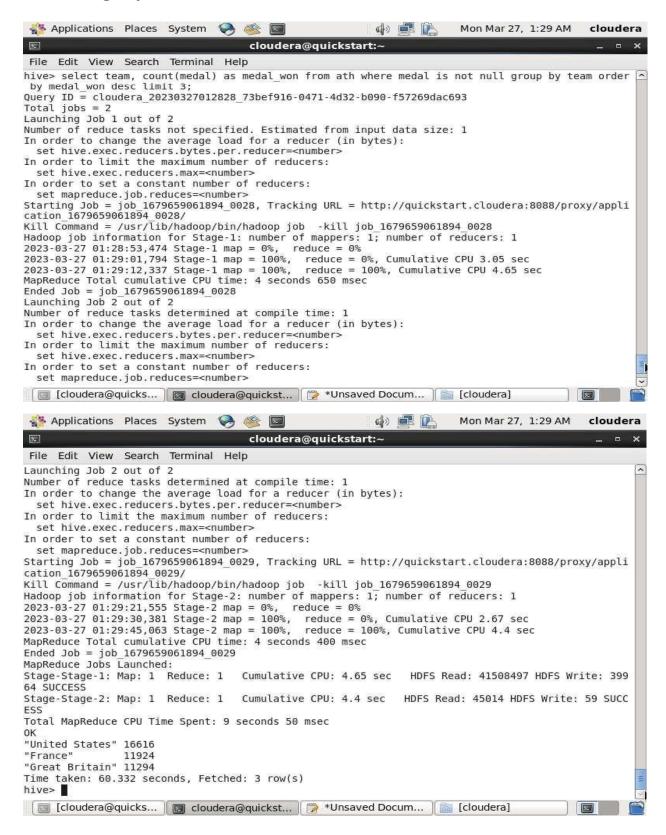
    □ cloudera@quickstart:~ □ cloudera@quickstart:~
```

## 3) Queries

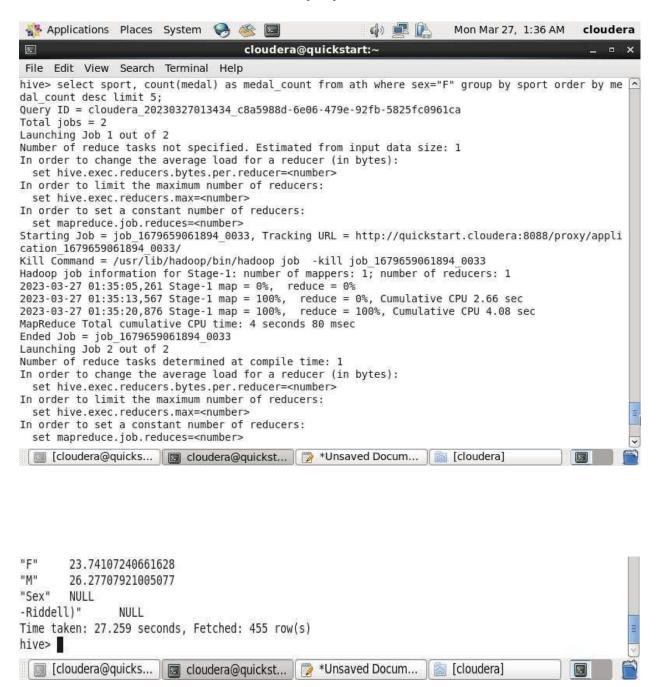
#### **Counting number of countries participated in Olympics**



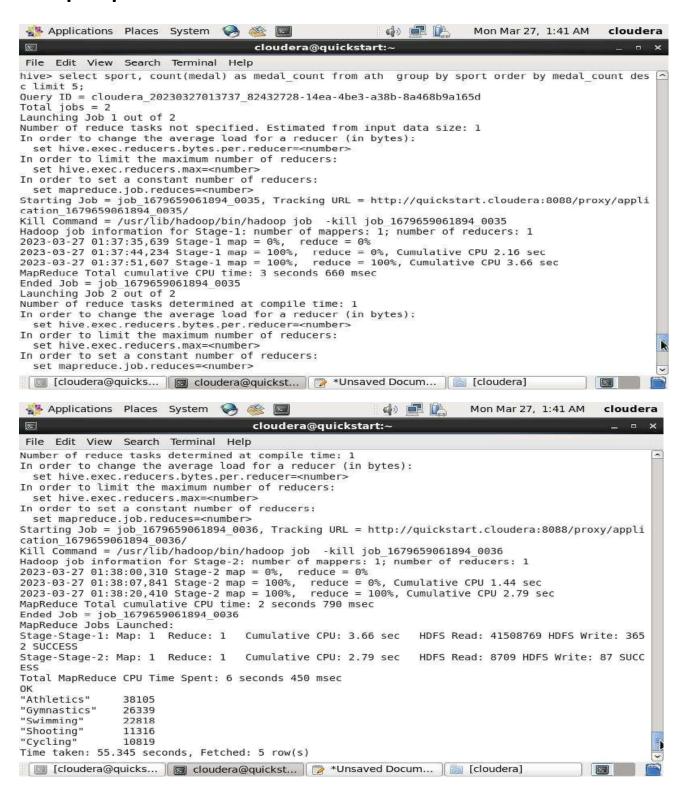
#### Finding top 3 countries in terms of total number of medals



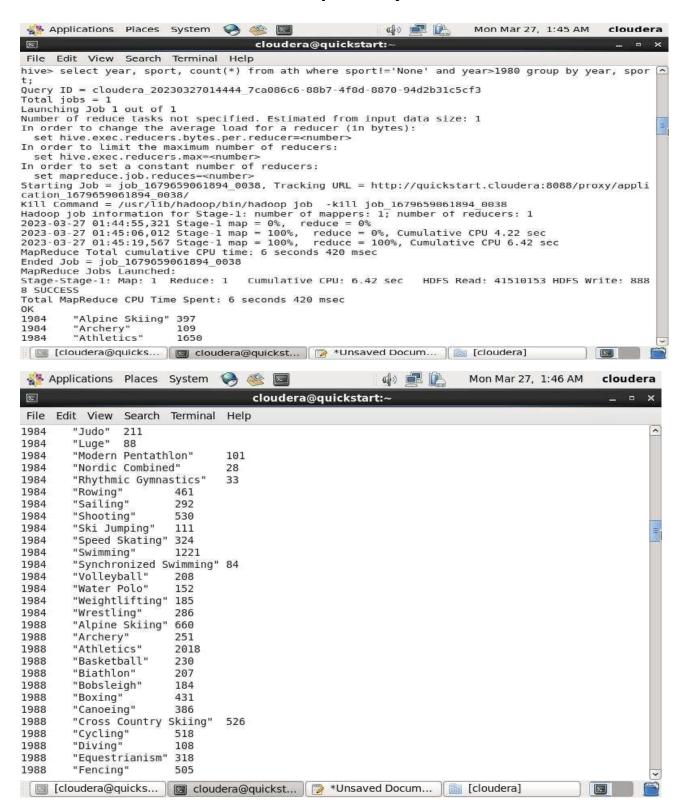
#### Count of female athletes in olympics



#### Top 5 sports in which athlete have won medals

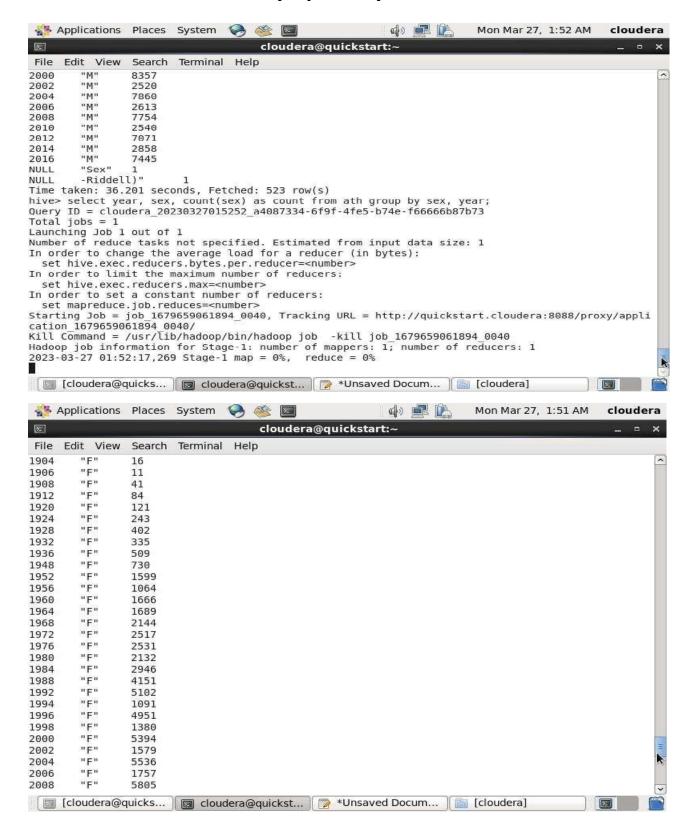


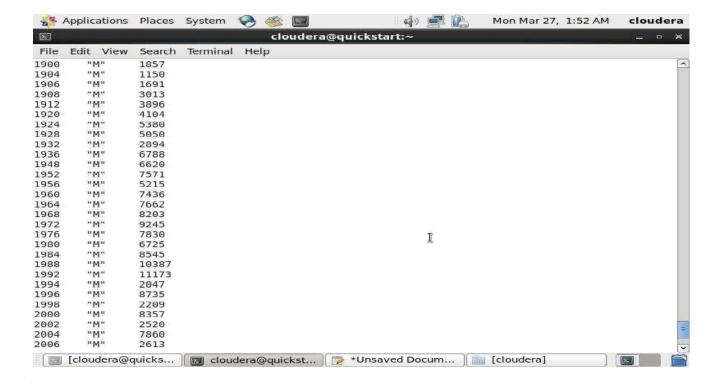
## No of events held for each sport in year after 1980



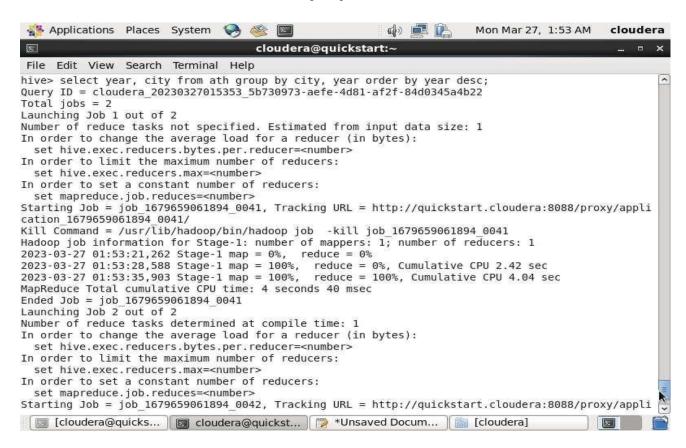


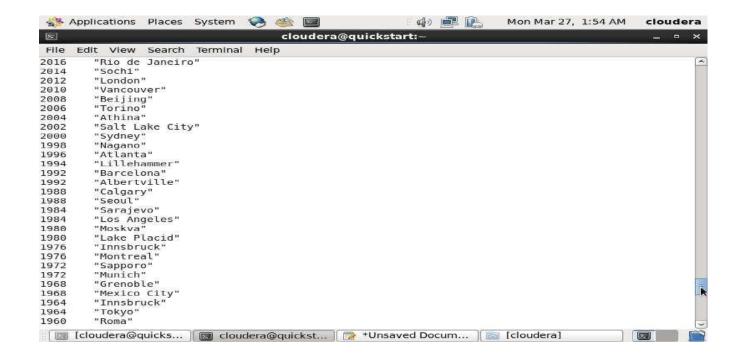
## Count of athletes in Olympics in year



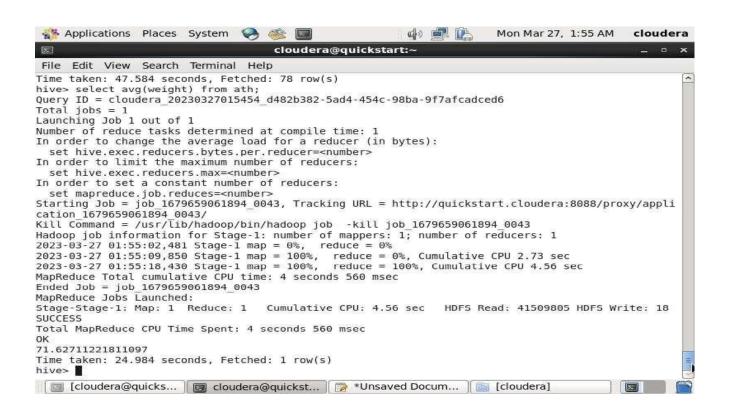


## Different cities in which Olympics has held

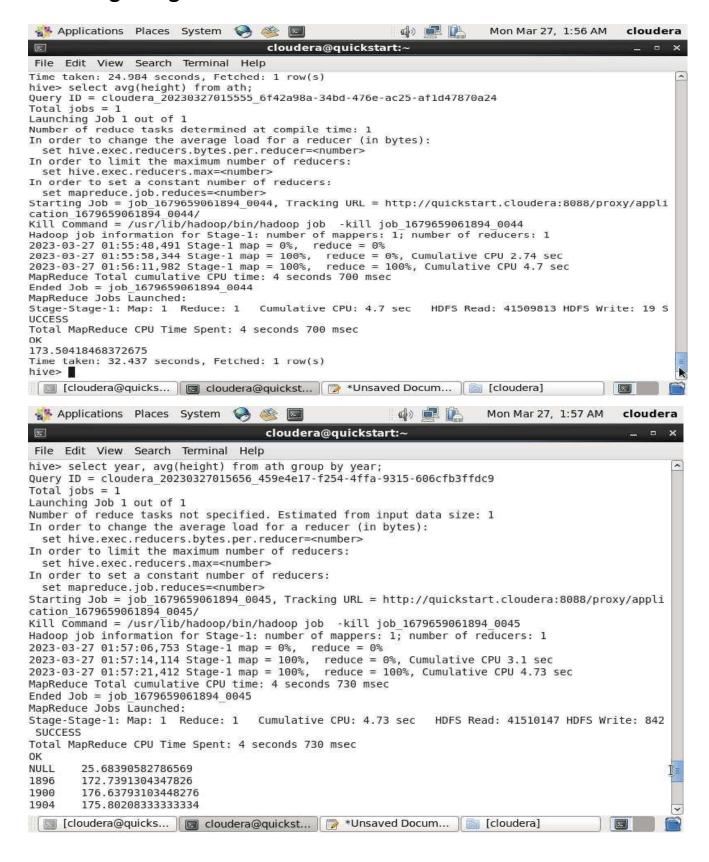




## Average weights of all athletes



#### Average heights of all athletes



```
(a) I
Applications Places System 🤪 🍩 🗔
                                                                                   Mon Mar 27, 1:58 AM
                                                                                                            cloudera
                                           cloudera@quickstart:~
File
      Edit View Search Terminal Help
1928
         175.2515923566879
1932
         174.28125
1936
         175.76962457337885
1948
         176.19823008849556
174.07724719101122
         173.83745173745174
173.14364573110893
1956
1960
1964
1968
         173.46286900369003
173.93418342324668
1972
         174.5901238876287
1976
         174.9340288755401
         175.55449492508458
         175.52413729809103
175.7497795414462
1984
1988
         176.1978936121499
175.18970189701898
1992
1994
1996
         175.90445590597784
1998
         174.5700427960057
         176.08137657763427
2002
         174.6995085995086
         175.9450598802395
2004
2006
2008
         174.60013748854263
176.18189275859498
2010
         174.89459274469542
2012
         176.23023676551563
2014
         174.80189261468834
2016
         176.01994217510565
Time taken: 25.839 seconds, Fetched: 36 row(s)
hive>
📗 [cloudera@quicks... | 👩 cloudera@quickst... | 🍞 *Unsaved Docum... | 🔝 [cloudera]
```

## Number of distinct teams participated in every olympics

