OLYMPIC DATA ANALYSIS PROJECT

REPORT

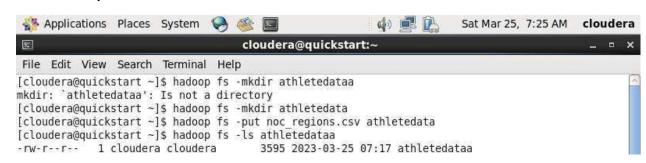
In this project, I first loaded Olympic dataset on cloudera machine by creating shared folder both on windows and linux OS.

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

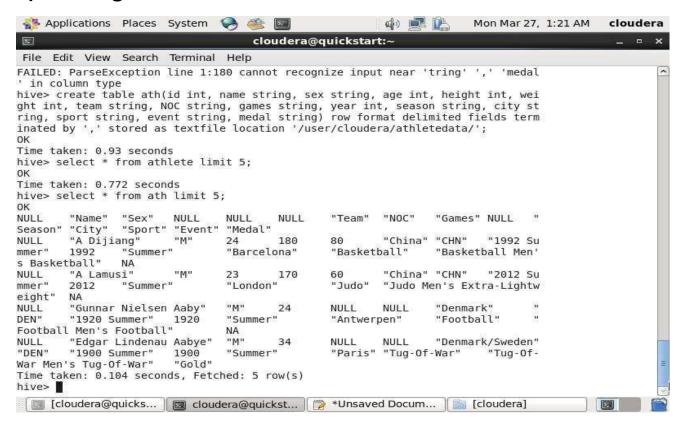
Command:

- \$ 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

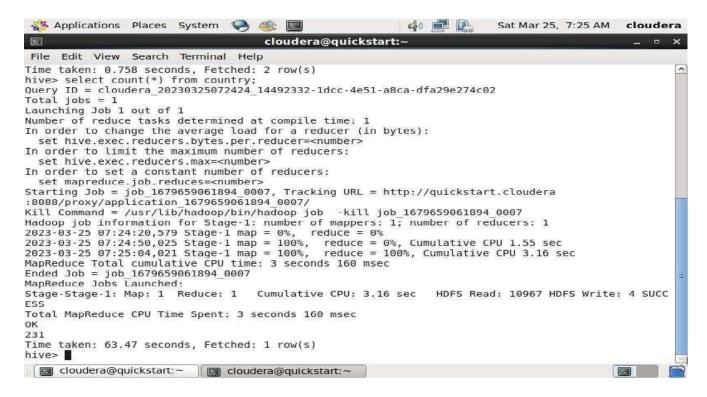


```
Sat Mar 25, 7:25 AM cloudera
Applications Places System 🤪 🍩 🔚
                                                         cloudera@quickstart:~
 File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop fs -mkdir athletedataa
mkdir: `athletedataa': Is not a directory
[cloudera@quickstart -]$ 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/';
OK
Time taken: 0.233 seconds
hive> select * from country limit 2;
AFG
             Afghanistan
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

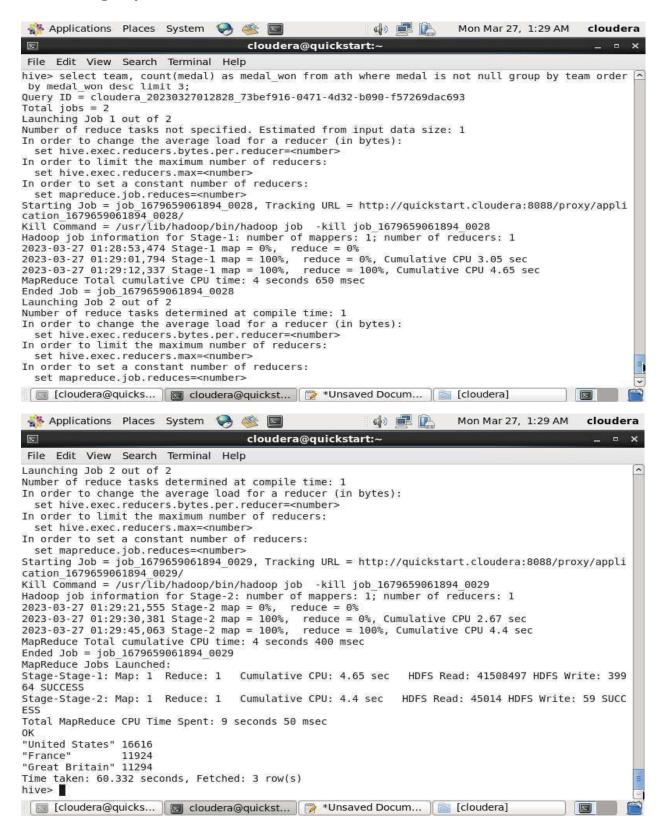
    □ cloudera@quickstart:~ □ cloudera@quickstart:~
```

3) Queries

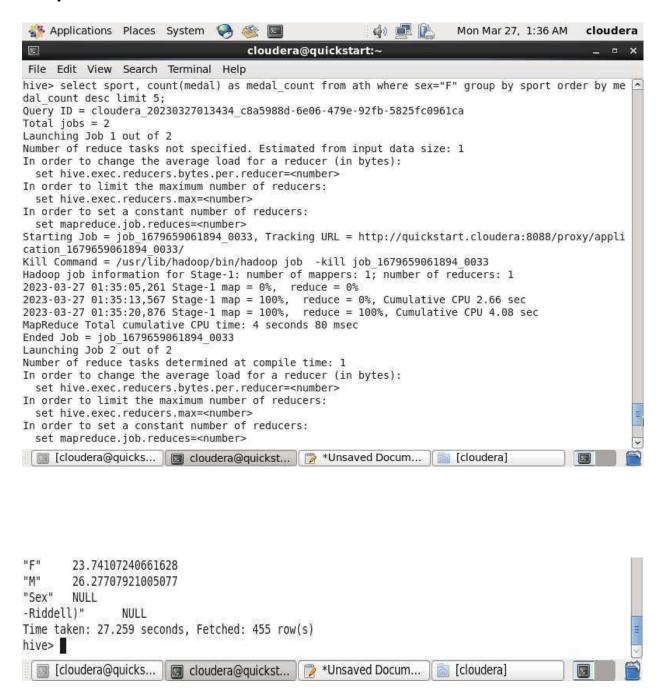
Counting number of countries participated in Olympics



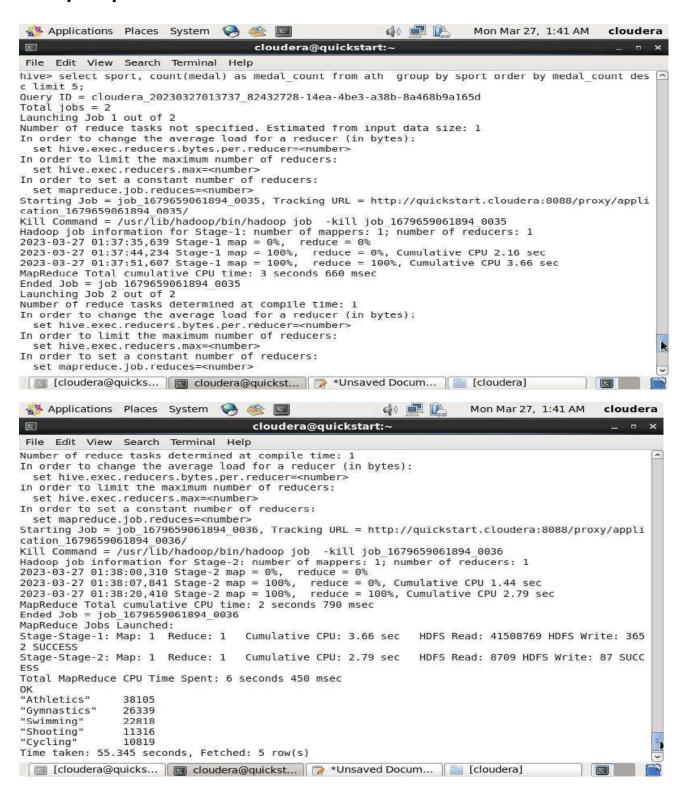
Finding top 3 countries in terms of total number of medals



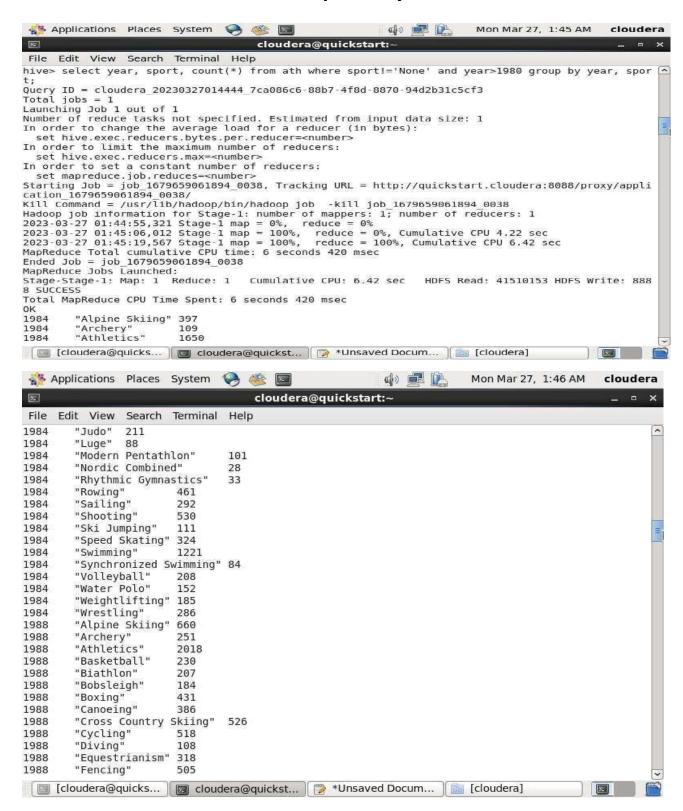
Sports in which female athlete have won medals

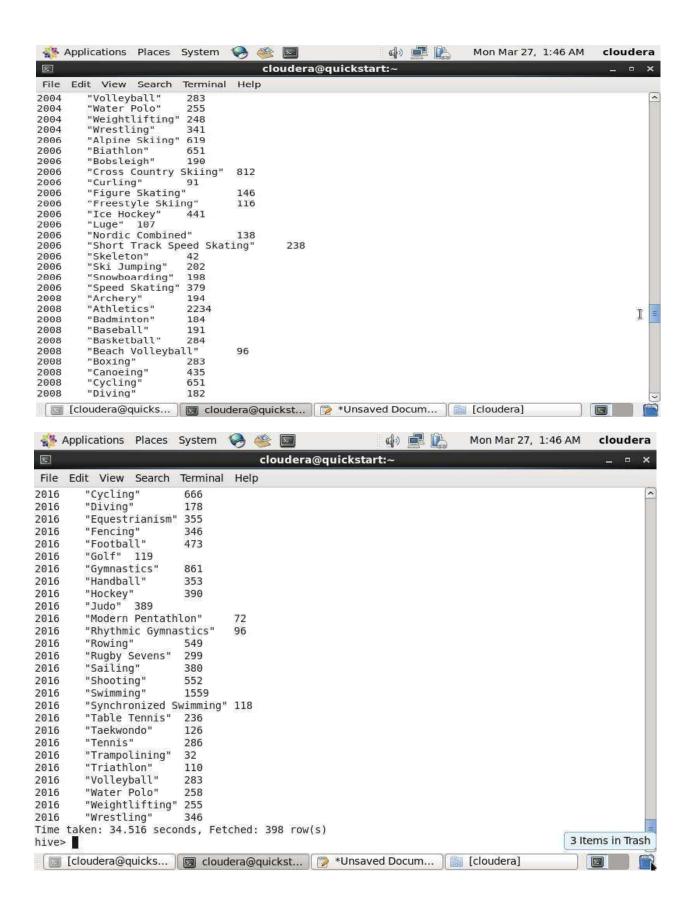


Top 5 sports in which athlete have won medals

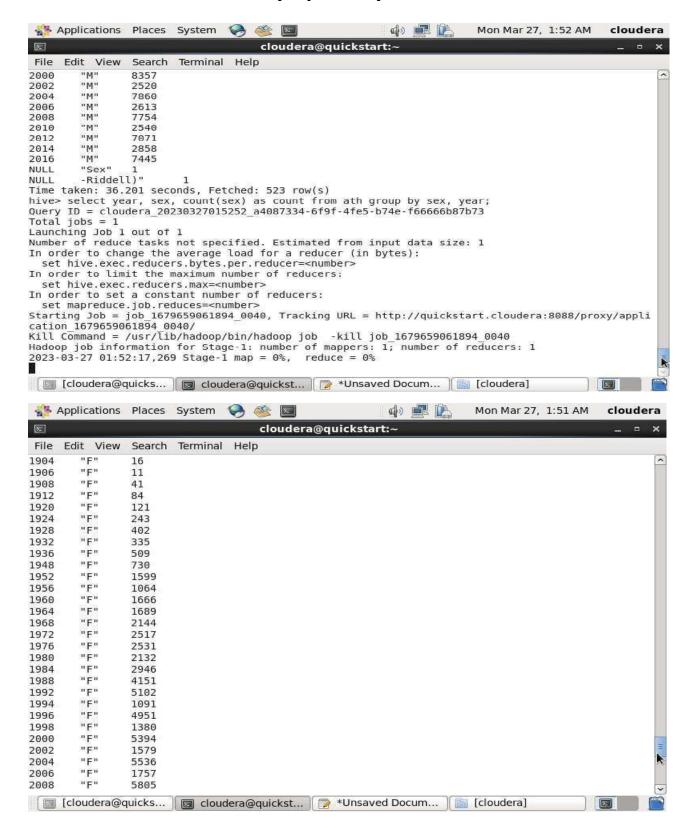


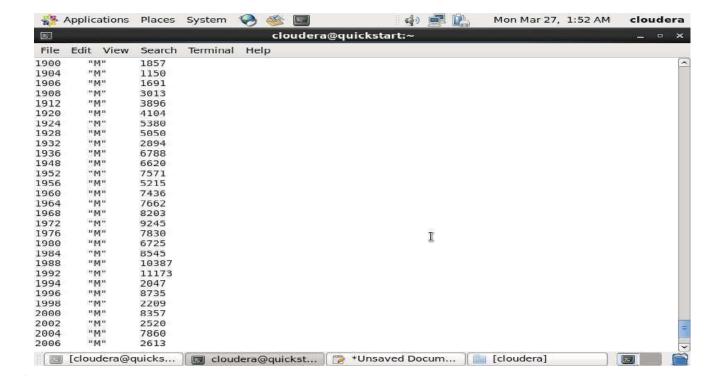
No of events held for each sport in year after 1980



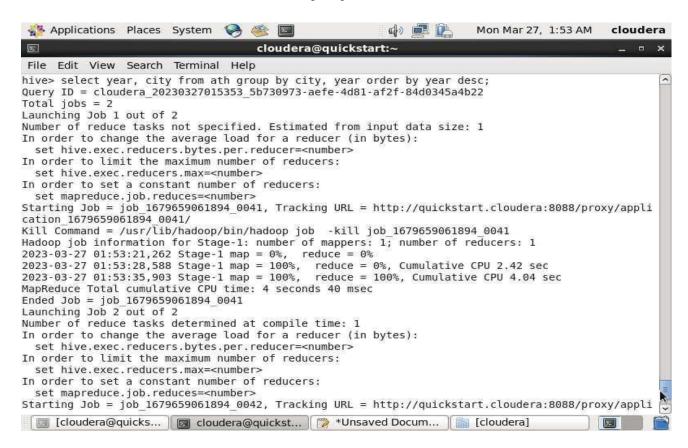


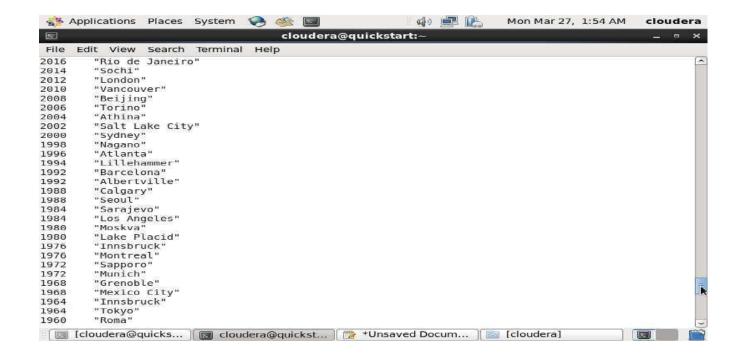
Count of athletes in Olympics in year



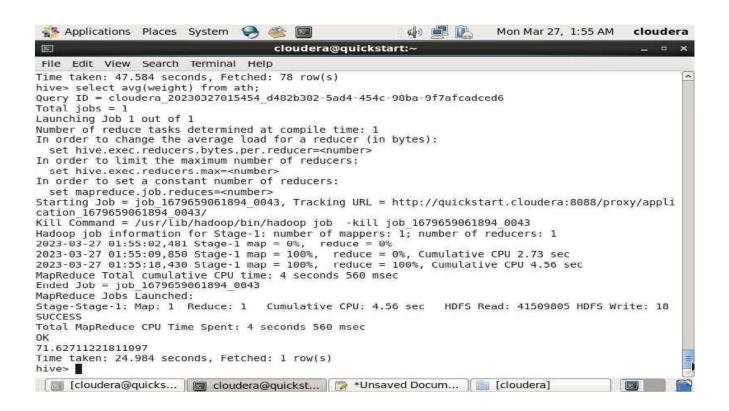


Different cities in which Olympics has held

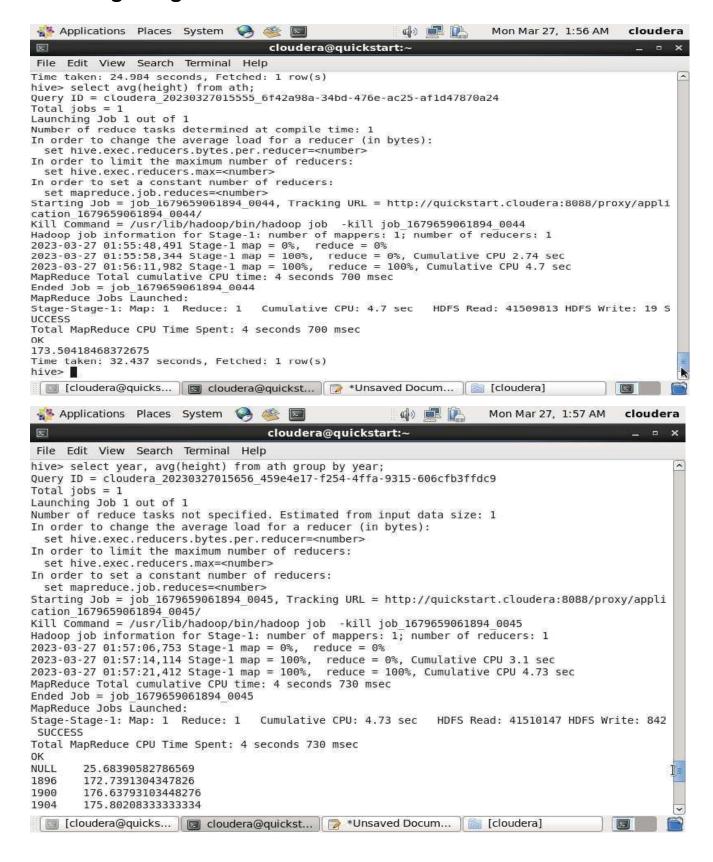




Average weights of all athletes



Average heights of all athletes



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(a)
Applications Places System 🤪 🍩 🔄
                                                                                    Mon Mar 27, 1:58 AM
                                                                                                              cloudera
                                            cloudera@quickstart:~
File
      Edit View Search Terminal Help
         175.2515923566879
174.28125
1928
1932
1936
         175.76962457337885
1948
         176.19823008849556
174.07724719101122
1952
         173.83745173745174
173.14364573110893
1956
1960
1964
         173.46286900369003
173.93418342324668
1968
          174.5901238876287
1976
         174 9340288755401
1980
         175.55449492508458
         175.52413729809103
175.7497795414462
1984
1988
1992
         176.1978936121499
175.18970189701898
1994
1996
          175.90445590597784
1998
         174.5700427960057
2000
         176.08137657763427
2002
         174.6995085995086
2004
          175.9450598802395
2006
2008
         174.60013748854263
         176.18189275859498
          174.89459274469542
2012
         176.23023676551563
174.80189261468834
2014
2016
          176.01994217510565
Time taken: 25.839 seconds, Fetched: 36 row(s) hive> ■
💹 [cloudera@quicks...] 👩 cloudera@quickst... 🍞 *Unsaved Docum... 🔝 [🔝 [cloudera]
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Number of distinct teams participated in every olympics

