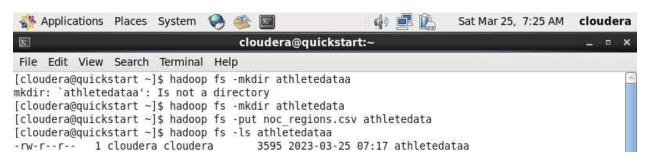
OLYMPIC DATA ANALYSIS PROJECT REPORT

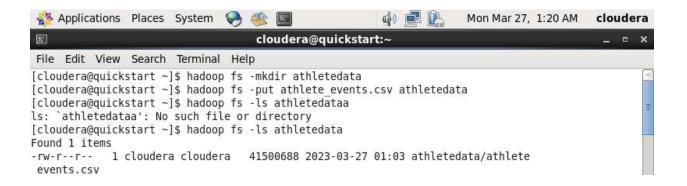
- In this project, I first loaded Olympic dataset on cloudera machine by creating shared folder both on windows and linux OS.
- Then I create directory to load the csv files into it using hadoop and log in to hive shell. In hive I created table of data from csv file, run queries and do analysis of data.

1) Creating Directory and Loading csv files into it

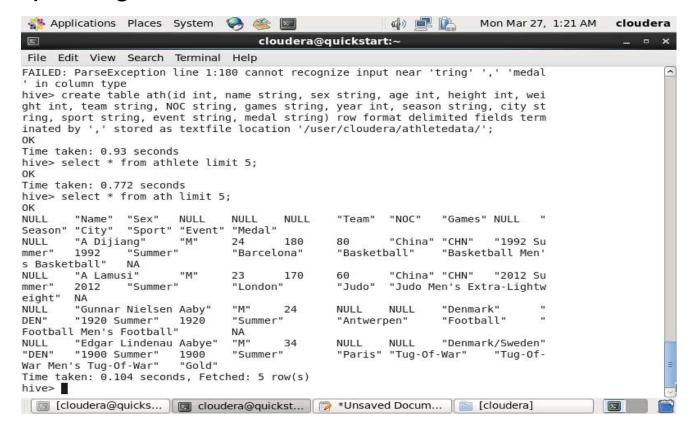
Command:

- \$ hadoop fs -mkdir athletedata
- \$ hadoop fs -put noc regions.csv athletedata
- \$ hadoop fs -put athlete_events.csv athletedata
- \$ hadoop fs -ls athletedata





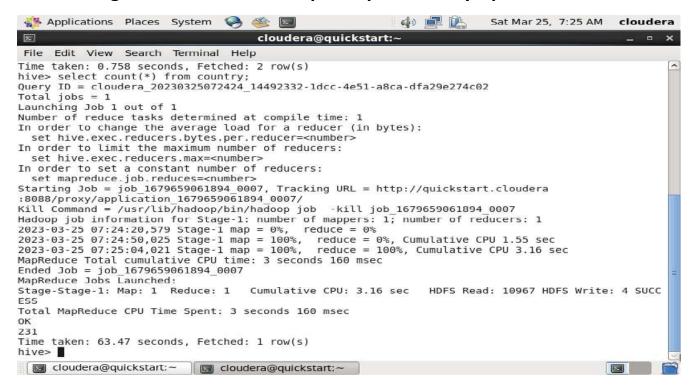
2) Creating Tables



```
Applications Places System 🤪 🍩 国
                                                                                   📣 🚅 🔃 Sat Mar 25, 7:25 AM cloudera
                                                    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 athletedata
[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;
OK
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
           region
                      notes
AFG
           Afghanistan
Time taken: 0.758 seconds, Fetched: 2 row(s)
hive> select count(*) from country;
Query 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:~
```

3) Queries

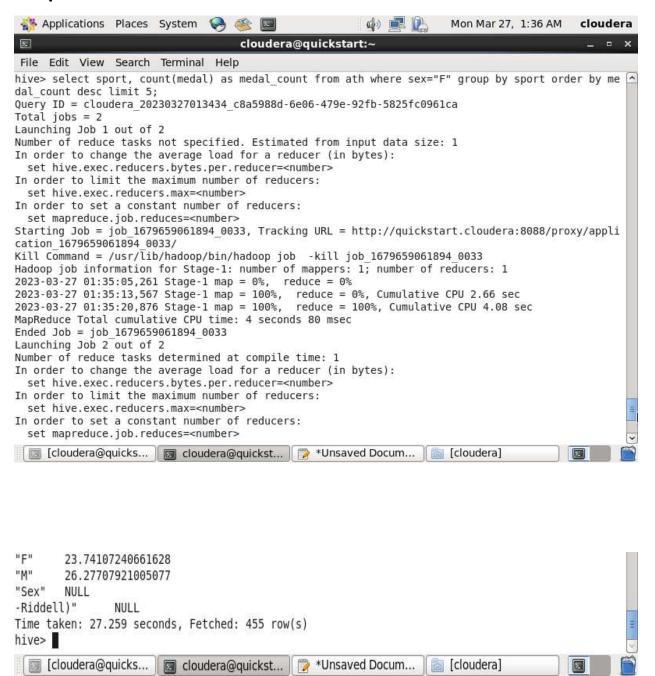
Counting number of countries participated in Olympics



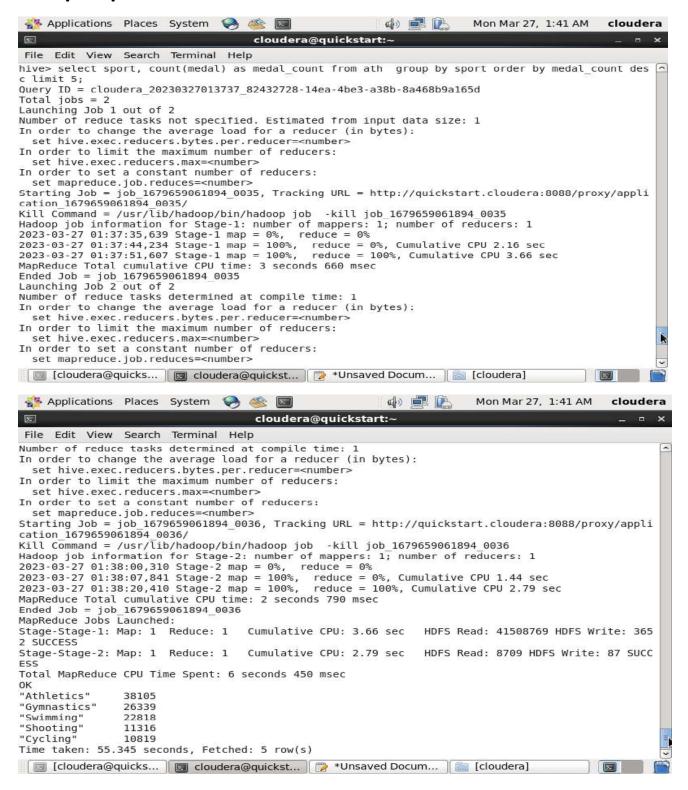
• Finding top 3 countries in terms of total number of medals



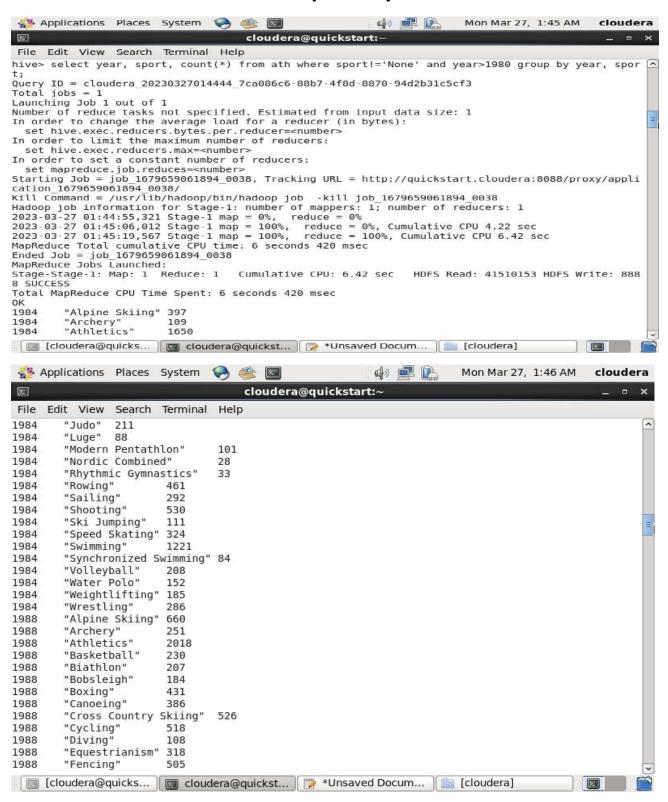
Sports in which female athlete have won medals

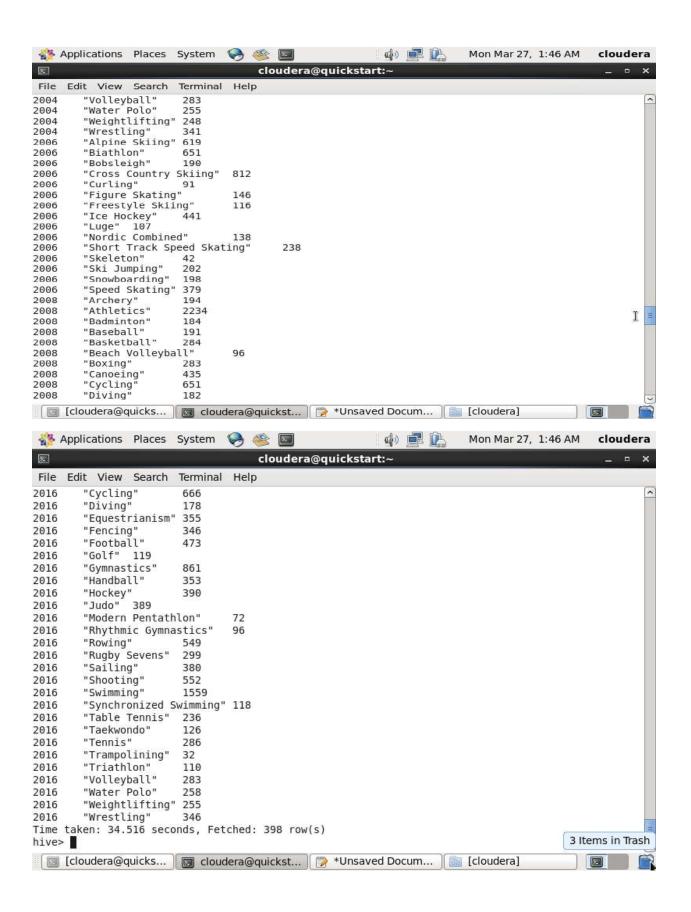


Top 5 sports in which athlete have won medals

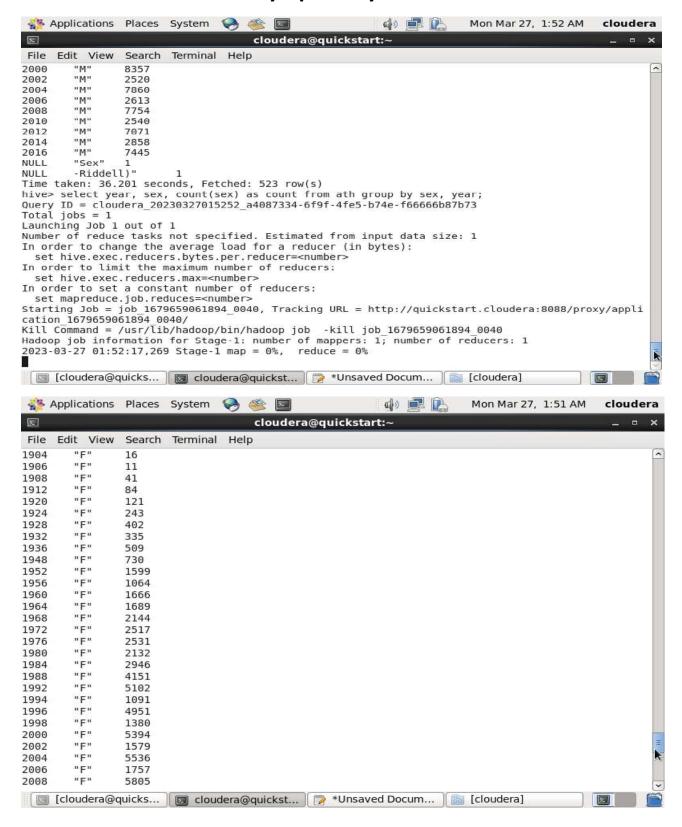


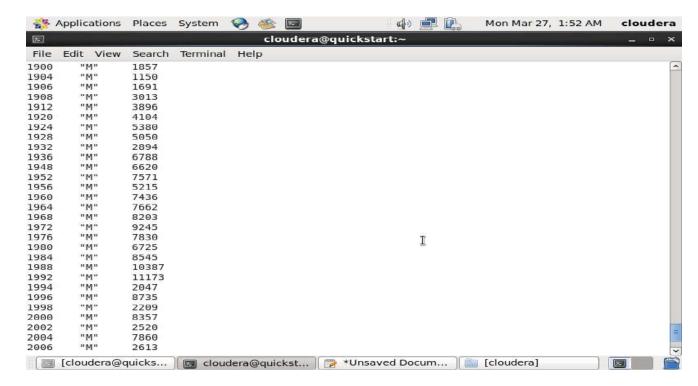
No of events held for each sport in year after 1980



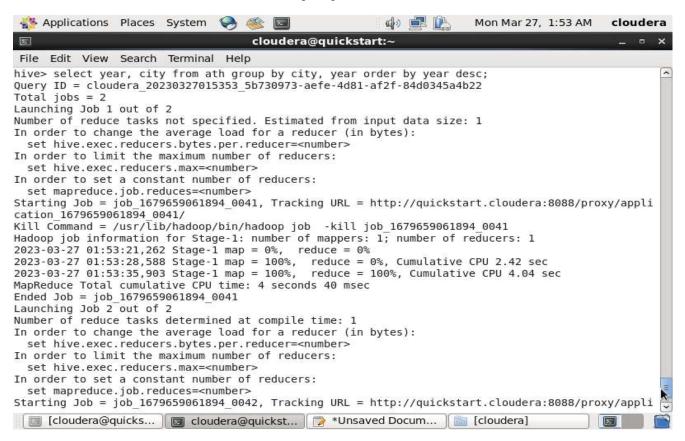


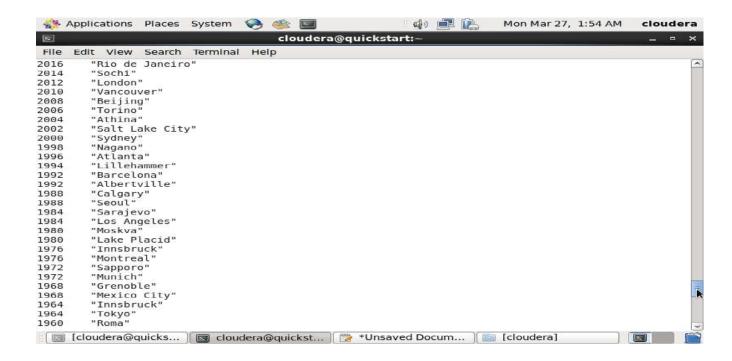
Count of athletes in Olympics in year



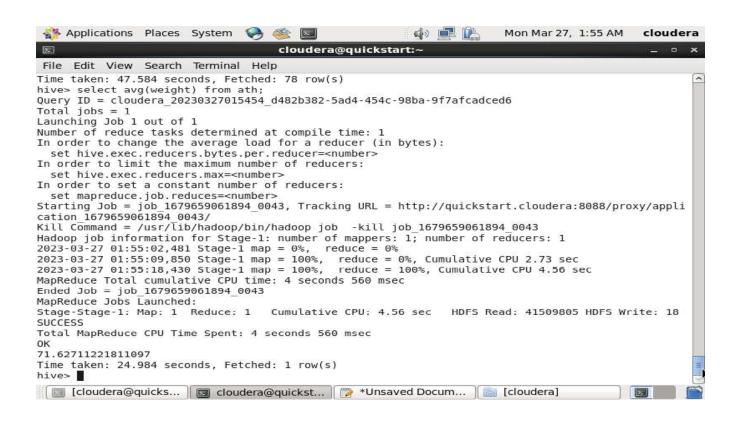


Different cities in which Olympics has held

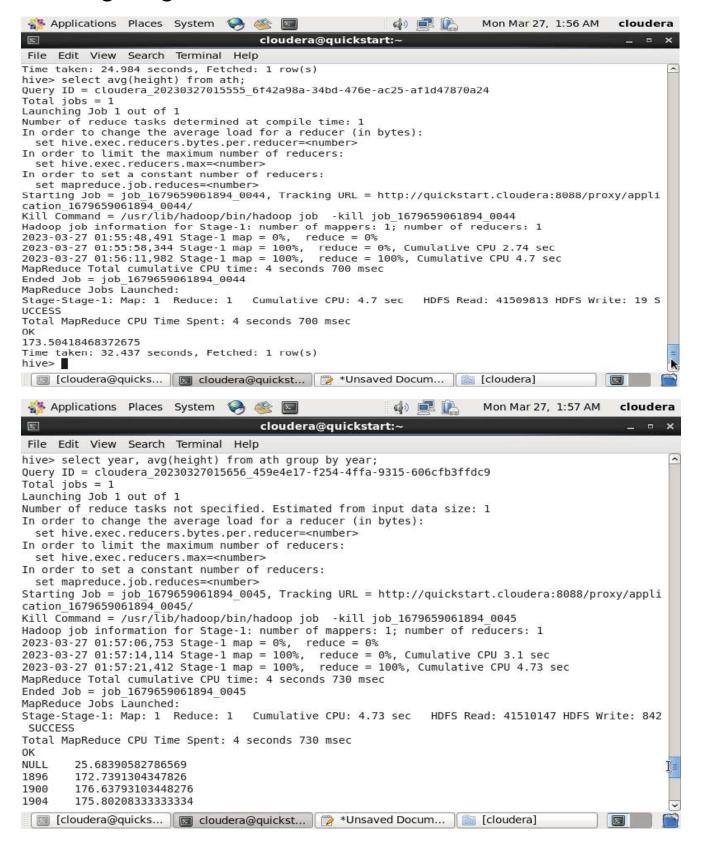




Average weights of all athletes



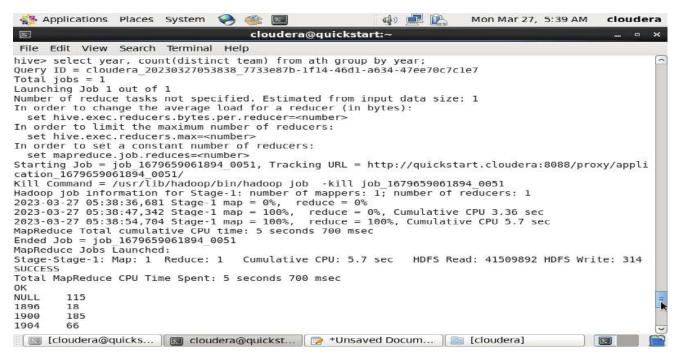
Average heights of all athletes

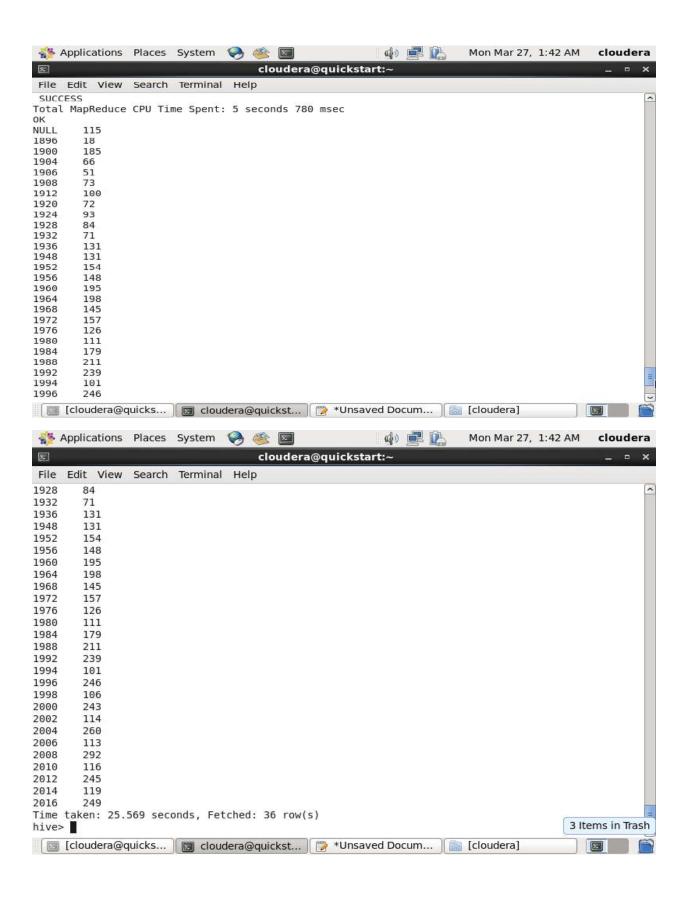


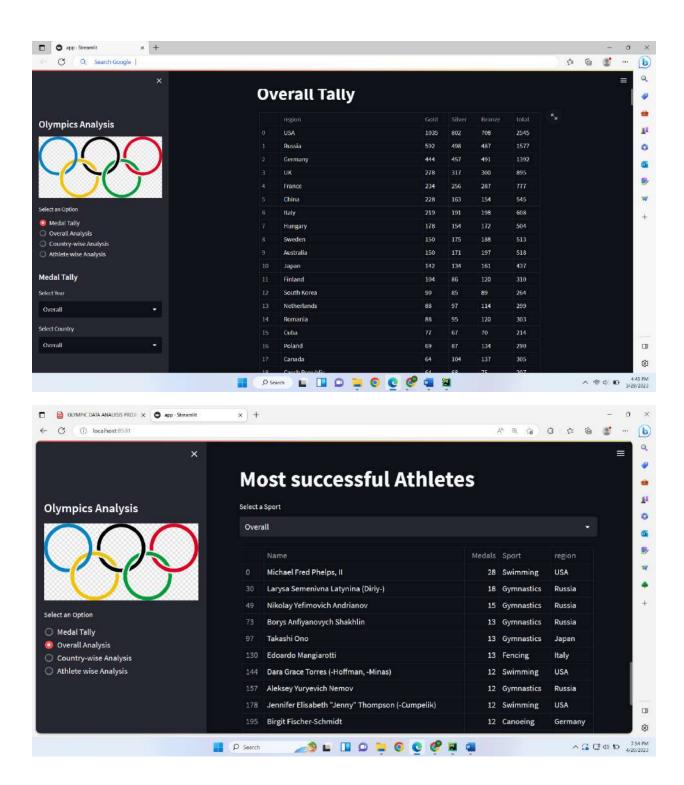
```
Applications Places System 🤪 🍩 🔚
                                                                                                                                                                                                                             Mon Mar 27, 1:58 AM
                                                                                                                                                                                                                                                                                                                                                                    cloudera
                                                                                                                                              cloudera@quickstart:~
   File Edit View Search Terminal Help
 1928
                                175.2515923566879
 1932
                                174 28125
                                175.76962457337885
 1936
 1948
                                176.19823008849556
                               174.07724719101122
173.83745173745174
 1952
 1960
                               173.14364573110893
173.46286900369003
 1964
                               173.93418342324668
174.5901238876287
 1968
 1972
 1976
                                174.9340288755401
 1980
                                175.55449492508458
                                175.52413729809103
                               175.7497795414462
176.1978936121499
 1988
 1992
                               175.18970189701898
175.90445590597784
 1994
 1996
 1998
                                 174.5700427960057
                               176.08137657763427
174.6995085995086
 2000
                               175.9450598802395
174.60013748854263
 2004
 2006
 2008
                                176.18189275859498
                                174.89459274469542
 2010
 2012
                                176.23023676551563
 2014
                                174.80189261468834
 2016
                                 176.01994217510565
 Time taken: 25.839 seconds, Fetched: 36 row(s)
hive>

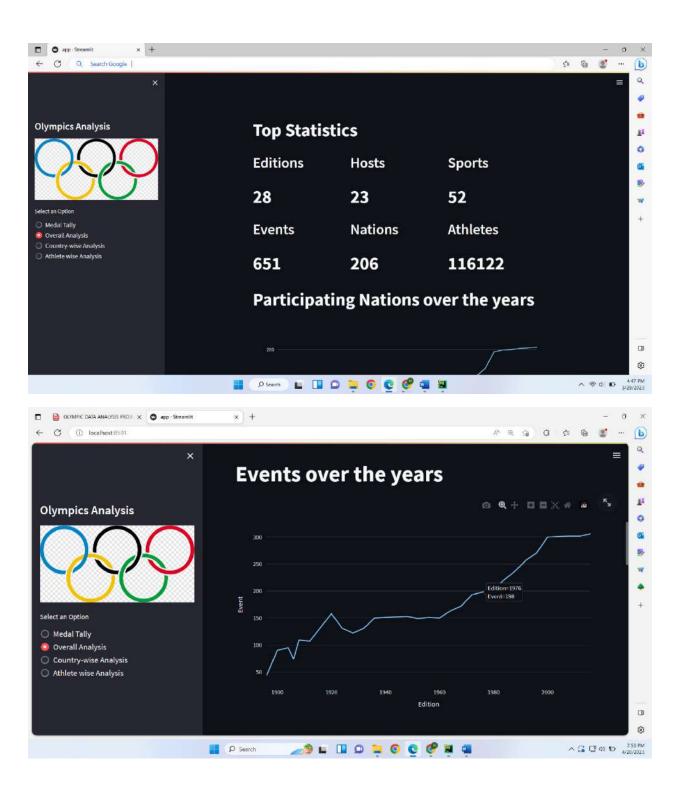
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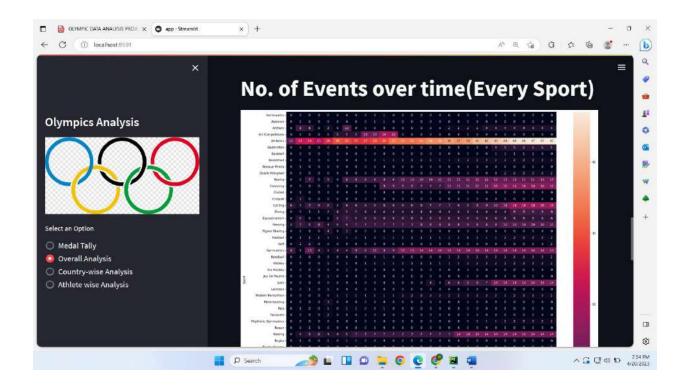
Number of distinct teams participated in every olympics

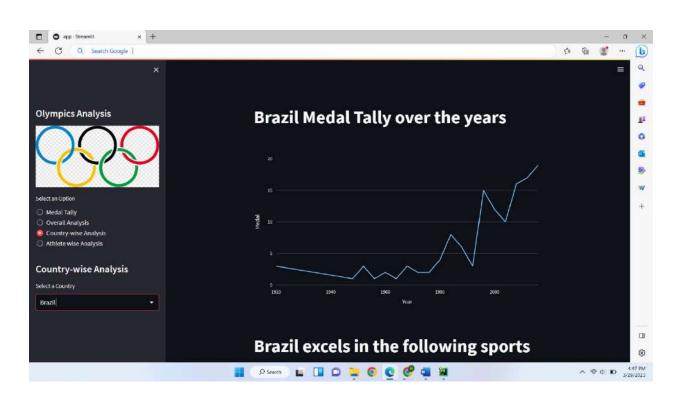


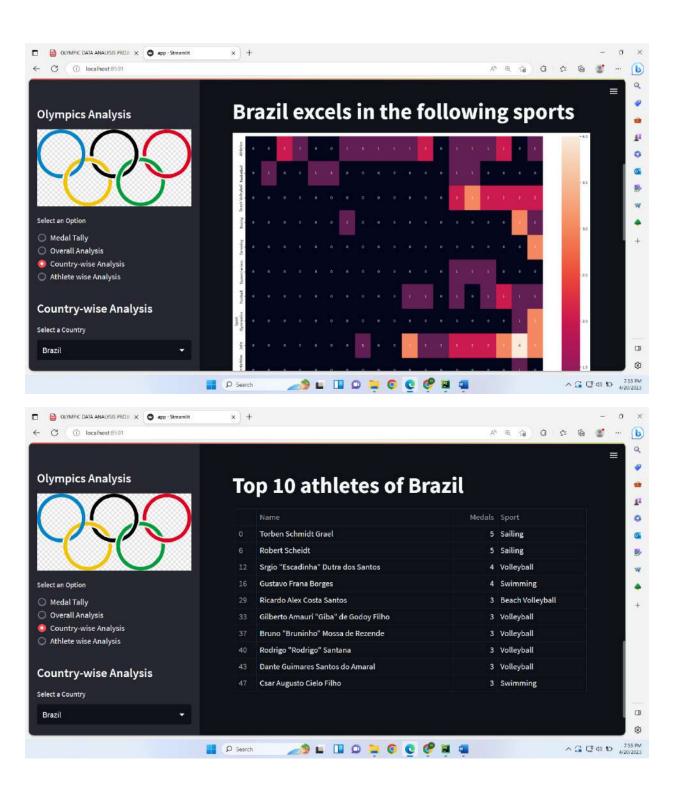


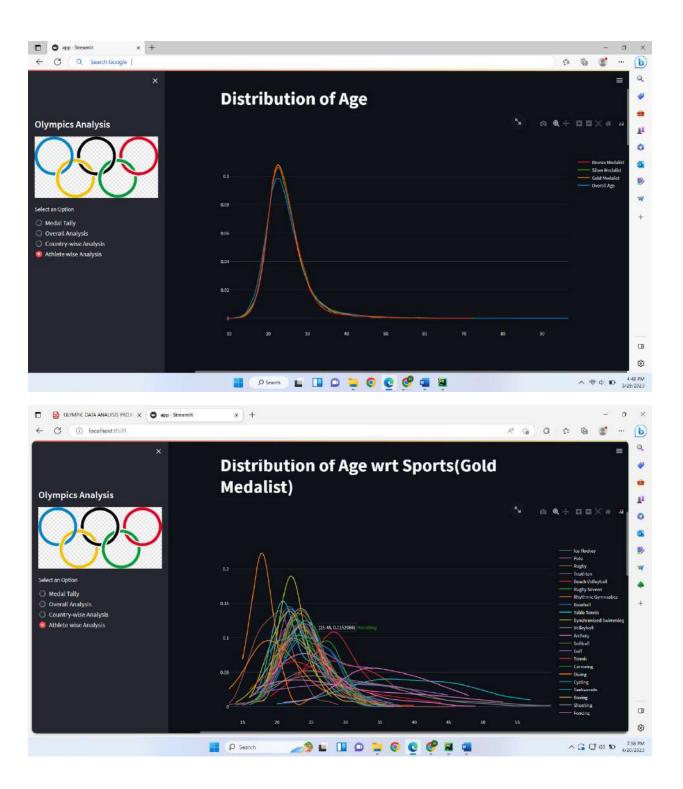


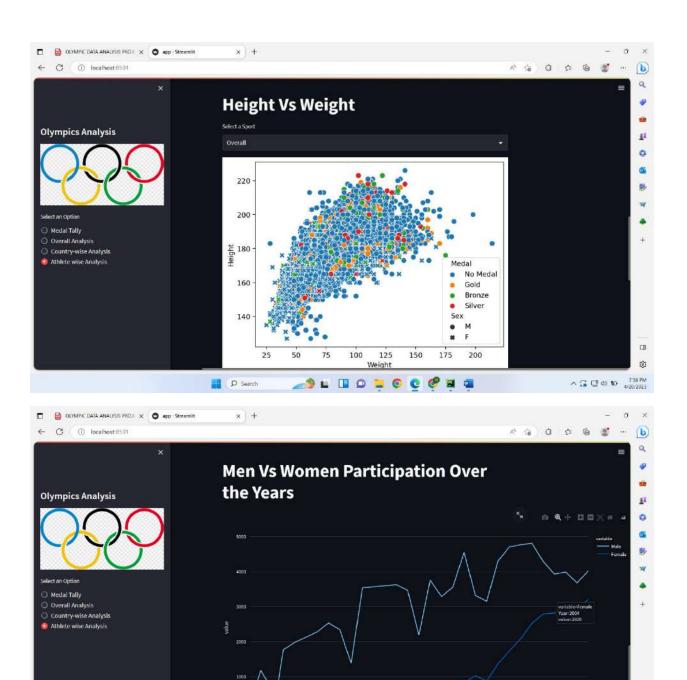












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