Capstone Project - Sports Analysis

By Abhishek Attri

Project Overview

- This database consist of 11 data set.
- In this dataset is a comprehensive collection of information about the Olympic Games, offering a detailed view of various aspects related to this prestigious international sporting event. It encompasses data from multiple interconnected tables, providing valuable insights into the history, sports, participants, and locations of the Olympic Games.

OBJECTIVES

- Analyse how the Olympics have evolved over time for Male and female, analyse about the participation and performance of person based on different Countries, Season and different Sports and events, Person who won medals.
- Analyse which country has the highest number of participants, which has the highest number of medals and most popular Sports among men and women.
- > Publish the finding based on data analysis.

Olympics

Participant Analysis

Medals Analysis

Season & Players Analysis

Sports Analysis

Age Analysis

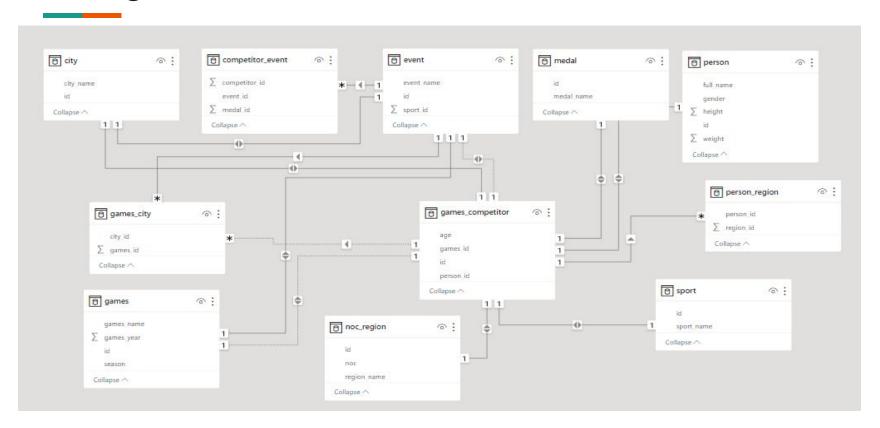
Valuable Insights: The Power BI dashboard using the Olympics Database provides valuable insights into the Sports performance. It presents data-driven analytics on Medals, Gender, age of Participant etc.

Improvement Focus: The dashboard helps the Sports focus on areas that require improvement. By analyzing Games, Age, Countries, the dashboard identifies opportunities to optimize age and most valuable game.

Trend Identification: Using historical Sports data, the dashboard identifies trending game over time. It helps identify seasonal patterns and the success of certain games and Players. This trend identification empowers the games to plan for future Sports in Olampic more effectively.

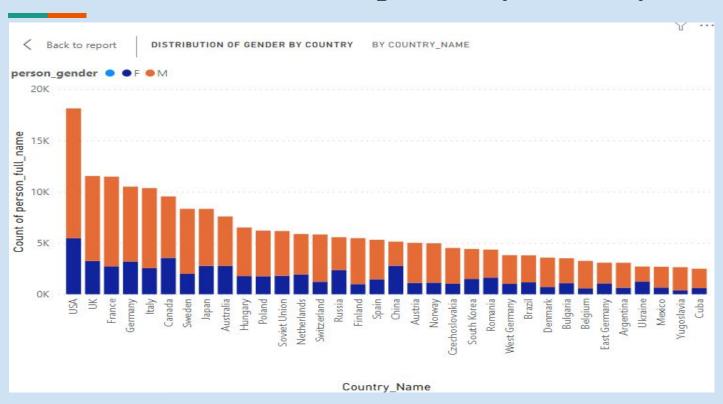
Comprehensive Understanding: The Power BI dashboard offers a comprehensive understanding of Sports Played in Olamic. By presenting data on Games, best Player, and season in centralized platform. This comprehensive understanding enables better decision-making and a more cohesive strategy across all aspects of the Olamic Sports.

ER Diagram

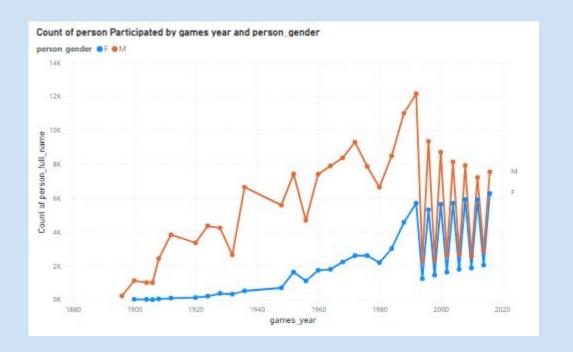




Male and Female Participation by Country



Sports Analysis





How many Medals distributed in top 10 Countries?

Count Of Total Medal Distributed

40.54K

Count of medal_name

Countries Won at least one Medal

150

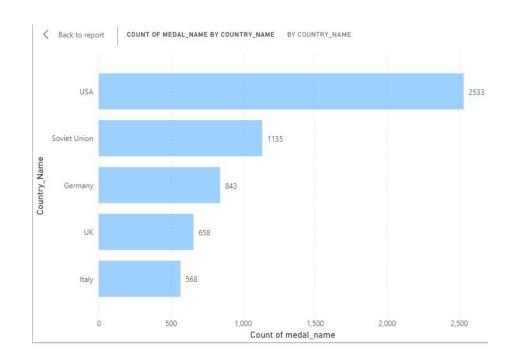
Count of Country_Name

Country_Name	Bronze	Gold	Silver	Total
USA	1301	2533	1580	5414
Soviet Union	740	1135	783	2658
Germany	810	843	742	2395
UK	626	658	687	1971
France	631	492	563	1686
Italy	507	568	528	1603
Sweden	536	477	522	1535
Australia	526	348	459	1333
Canada	433	461	430	1324
Russia	446	466	409	1321
Total	6556	7981	6703	21240

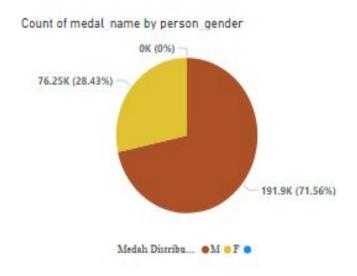
As shown in the table, the top 10 Countries According to numbers of Medals. The US has the highest number of medals follows followed by Soviet Union with Second highest number of Medals. Germany has third highest Medals.

Top 5 Countries with Gold Medals

USA has won the highest number of Gold medals (2533) in Olympics Follows by Soviet Union with (1135) and Germany having third highest number of medals (843).

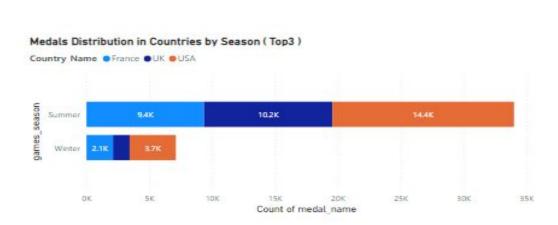


Medals by Gender



- The number of male participant won in Olympics are more.
- Whereas the number of Female won medals are significantly low as compared to male.

Season Analysis

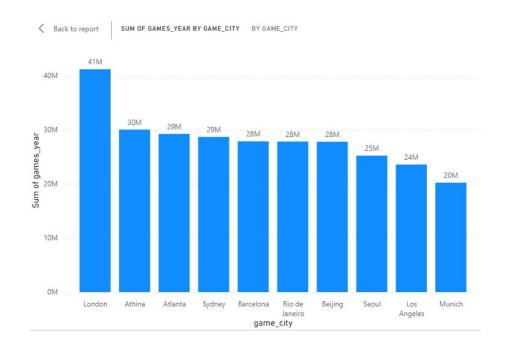


In 1986, it was decided to separate Summer and Winter Games.

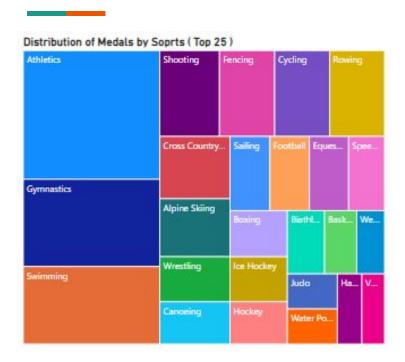
So, the number of Person participating in Summer are more as Winter, i.e numbers of Summer Medals are high as Winter Olympics.

Most Suitable City for Olympic Games

- The bar graph shows the top 10 cities with the highest number of games played.
- London is the most suitable city for playing games followed by Athina.

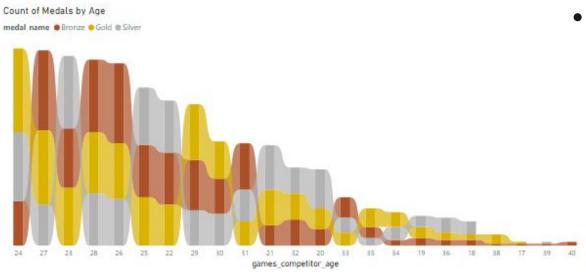


Sports Analysis



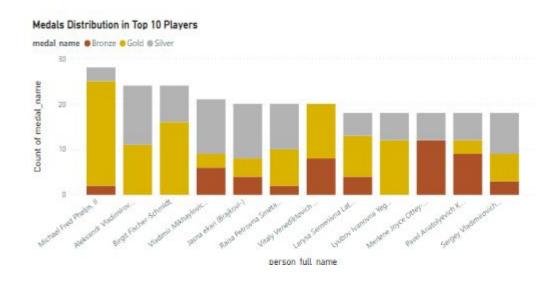
- Athletics is the most popular sports in the world.
- Athletics has highest number of medals followed by Gymnastics.

Age Analysis



Participants, Who are 24
year old has won highest
number of medals followed
by 27 year old person.

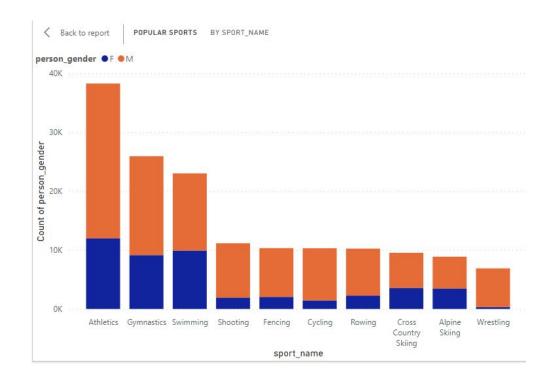
Top Players by Medals



Michael Fred Phelps,II is the best player of Swimming who has won (23 Gold + 3 Silver + 2 Bronze) medals followed by Aleksandr Vladimirovich a swimmer and Biathlon Men's who won (11 Gold +13 Silver) Medals.

Popular Sports among Men and Women

- Athletics and Gymnastics have most Participants.Most of the games we are team games.
 However, We do see some individuals event such as cycling, Wrestling and marathon among the top 10 popular Sports for men.
- Athletics and Swimming are most popular individual sports for Women.



EDA questions

- 1. Are there any trends or patterns in the frequency of hosting Olympic Games? = Athletics game has trends or patterns in frequency of hosting in Olympics.
- Are there any notable events or occurrences associated with specific Olympic Games?= Athletics events has highest number of Participants.
- 3. Are there any emerging sports that have been recently added to the Olympics? =Rugby sevens add recently in 2016.
- 4. Are there any sports that have a higher number of events for one gender compared to others? = Athletics and Gymnastics is popular in men but Athletics and Swimming is popular in Female.
- 5. Are there any new events that have been introduced in recent editions of the Olympics? =Rugby sevens event introduce in recent editions of the olympics
- 6. Are there any events that have been discontinued or removed from the Olympics? =Aeronautics have been discontinued after 1936.

Thank You