

SQL Project



Querying the Olympics Dataset

Introduction

The Olympic Games with its rich history and global significance, have captivated the world for over a century. As an integral part of our global sports culture, the Olympics have witnessed extraordinary achievements, inspiring stories, and moments of triumph. The wealth of data accumulated over the years provides a treasure trove of insights waiting to be discovered. In this project I would be delving into the vast Olympic dataset, aiming to unveil patterns, trends, and fascinating details about the Games' history.

Project Brief

The objective of this project is to analyze and extract meaningful insights from the comprehensive Olympic dataset. We will explore various aspects of the games, including participation trends, medal distributions, athlete demographics, successful nations, and more. By employing SQL query technique, we aim to highlight exceptional performances and gain a deeper understanding of the Olympic Games' evolution over time.

Data Source

The dataset used for the analysis was gotten from Kaggle. The dataset is a historical dataset on the modern Olympic Games, including all the games from Athens 1896 to Rio 2016.

Below is the link to the dataset:

<https://www.kaggle.com/datasets/heesoo37/120-years-of-olympic-history-athletes-and-results>

Overview of Table Structure

Olympics_History Table:

This table consists of 271116 rows and 15 columns.

Each row corresponds to an individual athlete competing in an individual Olympic event.

The columns are as follows:

- **ID** - Unique number for each Athlete
- **Name** - Athlete's name
- **Sex** - M or F
- **Age** – Integer
- **Height** - In centimeters
- **Weight** - In kilograms
- **Team** - Team name
- **NOC** - National Olympic Committee 3-letter code
- **Games** - Year and season
- **Year** - Integer
- **Season** - Summer or Winter
- **City** - Host city
- **Sport** - Sport
- **Event** - Event
- **Medal** - Gold, Silver, Bronze, or NA

Olympics_History

ID	Name	Sex	Age	Height	Weight	Team	NOC	Games	Year	Season	City	Sport	Event	Medal
1	A Dijiang	M	24	180	80	China	CHN	1992 Summer	1992	Summer	Barcelona	Basketball	Basketball Men's Basketball	NA
2	A Lamusi	M	23	170	60	China	CHN	2012 Summer	2012	Summer	London	Judo	Judo Men's Extra-Lightweight	NA
3	Gunnar Nielsen Aaby	M	24	NA	NA	Denmark	DEN	1920 Summer	1920	Summer	Antwerpen	Football	Football Men's Football	NA
4	Edgar Lindenau Aabye	M	34	NA	NA	Denmark/Sweden	DEN	1900 Summer	1900	Summer	Paris	Tug-Of-War	Tug-Of-War Men's Tug-Of-War	Gold
5	Christine Jacoba Aaftink	F	21	185	82	Netherlands	NED	1988 Winter	1988	Winter	Calgary	Speed Skating	Speed Skating Women's 500 metres	NA
5	Christine Jacoba Aaftink	F	21	185	82	Netherlands	NED	1988 Winter	1988	Winter	Calgary	Speed Skating	Speed Skating Women's 1,000 metres	NA
5	Christine Jacoba Aaftink	F	25	185	82	Netherlands	NED	1992 Winter	1992	Winter	Albertville	Speed Skating	Speed Skating Women's 500 metres	NA
5	Christine Jacoba Aaftink	F	25	185	82	Netherlands	NED	1992 Winter	1992	Winter	Albertville	Speed Skating	Speed Skating Women's 1,000 metres	NA
5	Christine Jacoba Aaftink	F	27	185	82	Netherlands	NED	1994 Winter	1994	Winter	Lillehammer	Speed Skating	Speed Skating Women's 500 metres	NA
5	Christine Jacoba Aaftink	F	27	185	82	Netherlands	NED	1994 Winter	1994	Winter	Lillehammer	Speed Skating	Speed Skating Women's 1,000 metres	NA
6	Per Knut Aaland	M	31	188	75	United States	USA	1992 Winter	1992	Winter	Albertville	Cross Country Skiing	Cross Country Skiing Men's 10 kilometres	NA
6	Per Knut Aaland	M	31	188	75	United States	USA	1992 Winter	1992	Winter	Albertville	Cross Country Skiing	Cross Country Skiing Men's 50 kilometres	NA
6	Per Knut Aaland	M	31	188	75	United States	USA	1992 Winter	1992	Winter	Albertville	Cross Country Skiing	Cross Country Skiing Men's 10/15 kilometre	NA
6	Per Knut Aaland	M	31	188	75	United States	USA	1992 Winter	1992	Winter	Albertville	Cross Country Skiing	Cross Country Skiing Men's 4 x 10 kilometre	NA
6	Per Knut Aaland	M	33	188	75	United States	USA	1994 Winter	1994	Winter	Lillehammer	Cross Country Skiing	Cross Country Skiing Men's 10 kilometres	NA
6	Per Knut Aaland	M	33	188	75	United States	USA	1994 Winter	1994	Winter	Lillehammer	Cross Country Skiing	Cross Country Skiing Men's 30 kilometres	NA
6	Per Knut Aaland	M	33	188	75	United States	USA	1994 Winter	1994	Winter	Lillehammer	Cross Country Skiing	Cross Country Skiing Men's 10/15 kilometre	NA
6	Per Knut Aaland	M	33	188	75	United States	USA	1994 Winter	1994	Winter	Lillehammer	Cross Country Skiing	Cross Country Skiing Men's 4 x 10 kilometre	NA
7	John Aalberg	M	31	183	72	United States	USA	1992 Winter	1992	Winter	Albertville	Cross Country Skiing	Cross Country Skiing Men's 10 kilometres	NA
7	John Aalberg	M	31	183	72	United States	USA	1992 Winter	1992	Winter	Albertville	Cross Country Skiing	Cross Country Skiing Men's 50 kilometres	NA
7	John Aalberg	M	31	183	72	United States	USA	1992 Winter	1992	Winter	Albertville	Cross Country Skiing	Cross Country Skiing Men's 10/15 kilometre	NA

Table is continuous as it has 271116 rows and 15 columns.

Olympics_History_noc_regions Table:

This table consists of 230 rows and 3 columns.

The columns are as follows:

- NOC- National Olympic Committee 3-letter code
- Region- Country
- Note- Comment

Olympics_History_noc_regions

NOC	region	notes
AFG	Afghanistan	
AHO	Curacao	Netherlands Antilles
ALB	Albania	
ALG	Algeria	
AND	Andorra	
ANG	Angola	
ANT	Antigua	Antigua and Barbuda
ANZ	Australia	Australasia
ARG	Argentina	
ARM	Armenia	
ARU	Aruba	
ASA	American Samoa	
AUS	Australia	
AUT	Austria	
AZE	Azerbaijan	
BAH	Bahamas	
BAN	Bangladesh	
BAR	Barbados	

Table is continuous as it has 230 rows and 3 columns.

Case Study Questions


1. How many Olympics games have been held?

Query		Query History
1	<code>select count (distinct games) as Total_games</code>	
2	<code>from Olympics_History;</code>	

Data Output		Messages	Notifications
			
	total_games		
	bigint		
1	51		

2. List down all Olympics games held so far with respect to the year, season, and city.?





Query		Query History
1	<code>select distinct year, season, city</code>	
2	<code>from Olympics_History</code>	
3	<code>order by year;</code>	
4		

Data Output		Messages	Notifications
			
	year	season	city
	integer	character varying	character varying
1	1896	Summer	Athina
2	1900	Summer	Paris
3	1904	Summer	St. Louis
4	1906	Summer	Athina
5	1908	Summer	London
6	1912	Summer	Stockholm
7	1920	Summer	Antwerpen
8	1924	Summer	Paris
9	1924	Winter	Chamonix
10	1928	Summer	Amsterdam
11	1928	Winter	Sankt Moritz
12	1932	Summer	Los Angeles
13	1932	Winter	Lake Placid

Output record is continuous.

3. What is the total number of nations who participated in each Olympics game?

Query	Query History
1	<code>select oh.games, count (distinct nr.region)</code>
2	<code>from Olympics_History as oh</code>
3	<code>join Olympics_History_noc_regions as nr</code>
4	<code>on oh.noc=nr.noc</code>
5	<code>group by games</code>
6	<code>order by games</code>
7	

Data Output	Messages	Notifications
<div></div>		
	games character varying	count bigint
1	1896 Summer	12
2	1900 Summer	31
3	1904 Summer	14
4	1906 Summer	20
5	1908 Summer	22
6	1912 Summer	29
7	1920 Summer	29
8	1924 Summer	45
9	1924 Winter	19
10	1928 Summer	46
...

Output record is continuous.

Question 3 Alternative Solution

Query	Query History
1	<code>with all_countries as</code>
2	<code> (select oh.games, nr.region</code>
3	<code> from Olympics_History as oh</code>
4	<code> inner join Olympics_history_noc_regions as nr</code>
5	<code> on oh.noc=nr.noc</code>
6	<code> group by games, nr.region)</code>
7	<code>select games, count(games) as total_countries</code>
8	<code>from all_countries</code>
9	<code>group by games</code>
10	<code>order by games</code>
11	

4. Which year saw the highest and lowest number of countries participating in the Olympics?

Query Query History

```

1 with all_countries as
2     (select oh.games, nr.region
3      from Olympics_History as oh
4      join Olympics_History_noc_regions as nr
5      on oh.noc=nr.noc
6      group by games, region),
7 total_countries as
8     (select games, count(*) as total_countries
9      from all_countries
10     group by games)
11 select distinct
12     concat(min(games) over(order by total_countries asc),
13           ' - ',
14           min(total_countries) over(order by total_countries asc)) as Lowest_Countires,
15     concat(max(games) over (order by total_countries desc),
16           ' - ',
17           max(total_countries) over (order by total_countries desc)) as Highest_Countries
18 from total_countries
19

```

Data Output Messages Notifications

	lowest_countires text	highest_countires text
1	1896 Summer - 12	2016 Summer - 204

5. Which nation has participated in all Olympics Games?

Query Query History

```

1 select oh.noc, nr.region, count (distinct oh.games) as Total_Games_Participated
2 from Olympics_History as oh
3 join Olympics_History_noc_regions as nr
4 on oh.noc=nr.noc
5 group by oh.noc, nr.region
6 having count(distinct oh.games) = (select count (distinct games) from Olympics_History)
7 order by Total_Games_Participated desc;
8

```

Data Output Messages Notifications

	noc character varying	region character varying	total_games_participated bigint
1	FRA	France	51
2	GBR	UK	51
3	ITA	Italy	51
4	SUI	Switzerland	51

6. Identify the sport/sports which have been played in all summer Olympics?

Query Query History

```
1 select Sport, count(distinct year) as "Total Summer Olympics"
2 from Olympics_History
3 where season = 'Summer'
4 group by sport
5 having count(distinct year)= (select count(distinct year) from Olympics_History where season = 'Summer')
6
7
```

Data Output Messages Notifications

	sport character varying	Total Summer Olympics bigint
1	Athletics	29
2	Cycling	29
3	Fencing	29
4	Gymnastics	29
5	Swimming	29

Question 6. Alternative Solution

Query Query History

```
1 with t1 as
2     (select count( distinct games) as total_summer_games
3       from Olympics_history
4       where season = 'Summer' ),
5 t2 as
6     (select distinct sport,games
7       from Olympics_history
8       where season = 'Summer' order by games),
9 t3 as
10    (select sport, count(games) as no_of_games
11      from t2
12      group by sport)
13 select *
14 from t3
15 join t1
16 on t1.total_summer_games = t3.no_of_games;
17
```

7. Which Sports were just played only once in the Olympics.?

Query


Query History



```
1 select distinct sport, count(distinct games) as No_of_games
2 from Olympics_History
3 group by sport
4 having count(distinct games)= 1
5 |
```

Data Output

Messages

Notifications



	sport character varying 	no_of_games bigint 
1	Aeronautics	1
2	Basque Pelota	1
3	Cricket	1
4	Croquet	1
5	Jeu De Paume	1
6	Military Ski Patrol	1
7	Motorboating	1
8	Racquets	1
9	Roque	1
10	Rugby Sevens	1

8. Fetch the total no of sports played in each Olympic game.?

Query

Query History

```
1 select games, count (distinct sport) as Total_number_of_sport_played
2 from Olympics_History
3 group by games
4 order by games desc
5 |
```

Data Output

Messages

Notifications

games

character varying

total_number_of_sport_played

bigint

1

2016 Summer

34

2

2014 Winter

15

3

2012 Summer

32

4

2010 Winter

15

5

2008 Summer

34

6

2006 Winter

15

7

2004 Summer

34

8

2002 Winter

15

9

2000 Summer

34

10

1998 Winter

14

11

1996 Summer

31

12

1994 Winter

12

13

1992 Winter

12

Output record is continous

Question 8. Alternative Solution

Query Query History

```
1 with t1 as
2     (select distinct games, sport
3      from olympics_history),
4     t2 as
5     (select games, count (distinct sport) as no_of_sports
6      from t1
7      group by games)
8 select * from t2
9 order by games desc;
```

9. Fetch oldest Athlete/Athletes to win a gold medal?

Query Query History

```
1 select name, sex, age, team, sport, medal
2 from Olympics_History
3 where medal = 'Gold' and age <> 'NA' and age <> ' '
4 order by age desc
5 limit 2;
6 |
```

Data Output Messages Notifications

	name character varying	sex character varying	age character varying	team character varying	sport character varying	medal character varying
1	Charles Jacobus	M	64	United States	Roque	Gold
2	Oscar Gomer Swahn	M	64	Sweden	Shooting	Gold

Question 9. Alternative Solution

Query Query History










```
1 with t1 as
2     (select name, sex, cast(case when age = 'NA' then '0' else age end as integer) as age, team,
3     sport, event, medal
4     from Olympics_History),
5     ranking as
6     (select *,
7     rank() over (order by age desc ) as rnk
8     from t1
9     where medal = 'Gold')
10 select *
11 from ranking
12 where rnk =1;
13
```

10. What is the ratio of male and female athletes who has participated in all Olympic games?

Query Query History

```
1 with t1 as
2     (select sex, count(sex) as cnt
3     from Olympics_History
4     group by sex),
5     t2 as
6     (select *, row_number() over(order by cnt asc) as ranking
7     from t1 ),
8     min_cnt as
9     (select cnt from t2 where ranking =1),
10    max_cnt as
11    (select cnt from t2 where ranking =2)
12 select concat(' 1 : ', round(max_cnt.cnt::decimal/min_cnt.cnt, 2 )) as ratio
13 from min_cnt, max_cnt;
14
```

Data Output Messages Notifications

       	
	<div>ratio</div> <div>text</div> 
1	1 : 2.64

Question 10. Alternative Solution

Query Query History

```
1  select concat('1 :', round(max_cnt.cnt::decimal/min_cnt.cnt, 2)) as Ratio
2  from
3      (select cnt
4         from
5             (select sex, count(sex) as cnt
6                from Olympics_History
7                group by sex
8                order by cnt asc) as t1
9             limit 1) as min_cnt,
10     (select cnt
11        from
12            (select sex, count(sex) as cnt
13               from Olympics_History
14               group by sex
15               order by cnt desc) as t2
16            limit 1) as max_cnt;
17  |
```

11. Fetch the top 5 Athletes who have won the most Gold Medal

Query Query History

```
1 select name, gold_medals, rank
2 from
3     ( select name, count(medal) as gold_medals,
4         dense_rank() over(order by count(medal) desc ) as rank
5         from Olympics_History
6         where medal= 'Gold'
7         group by name) as Ranked_Athletics
8 where rank <=5
9
```

Data Output Messages Notifications

	name character varying	gold_medals bigint	rank bigint
1	Michael Fred Phelps, II	23	1
2	Raymond Clarence "Ray" Ewry	10	2
3	Frederick Carlton "Carl" Lewis	9	3
4	Mark Andrew Spitz	9	3
5	Paavo Johannes Nurmi	9	3
6	Larysa Semenivna Latynina (Diriy-)	9	3
7	Matthew Nicholas "Matt" Biondi	8	4
8	Jennifer Elisabeth "Jenny" Thompson (-Cumpelik)	8	4
9	Usain St. Leo Bolt	8	4
10	Birgit Fischer-Schmidt	8	4

Output record is continuous.

Question 11. Alternative Solution

Query Query History

```
1 with t1 as
2     (select name, count(medal) as total_medals
3      from Olympics_History
4      where medal= 'Gold'
5      group by name
6      order by count(*) desc),
7 t2 as
8     (select *, dense_rank() over(order by total_medals desc) as ranking
9      from t1)
10 select *
11 from t2
12 where ranking <=5;
```

12. Fetch the top 5 athletes who have won the most medals (Gold/Silver/Bronze)

Query Query History

```
1 select name, total_medals, ranking
2 from
3     (select name, count(medal) as total_medals,
4      dense_rank () over (order by count(medal) desc ) as ranking
5      from Olympics_history
6      where medal in ('Gold', 'Silver', 'Bronze')
7      group by name
8      ) as Ranked_Athletics
9 where ranking <=5;
```

Data Output Messages Notifications

	name	total_medals	ranking
	character varying	bigint	bigint
1	Michael Fred Phelps, II	28	1
2	Larysa Semenivna Latynina (Diriy-)	18	2
3	Nikolay Yefimovich Andrianov	15	3
4	Edoardo Mangiarotti	13	4
5	Ole Einar Bjrndalen	13	4
6	Borys Anfiyanovych Shakhlin	13	4
7	Takashi Ono	13	4
8	Natalie Anne Coughlin (-Hall)	12	5
9	Ryan Steven Lochte	12	5

Output record is continuous.

Question 12. Alternative Solution

Query Query History

```
1 with t1 as
2     (select name, count(medal) as total_medals
3        from olympics_history
4        where medal in ('Gold', 'Silver', 'Bronze')
5        group by name, team
6        order by total_medals desc),
7     t2 as
8     (select *, dense_rank() over (order by total_medals desc) as ranking
9        from t1)
10 select name, total_medals, ranking
11 from t2
12 where ranking <= 5;
13
```

13. Fetch the top 5 most successful countries in the Olympics. Success is defined by number of medals won.

Query Query History

```
1 select nr.region as country,
2        count(distinct (oh.event, oh.year) ) as total_medals_in_all_events,
3        dense_rank() over (order by count(distinct oh.event) desc) as ranking
4 from Olympics_History as oh
5 join Olympics_History_noc_regions as nr
6 on oh.noc=nr.noc
7 where oh.medal in ('Gold', 'Silver', 'Bronze')
8 group by country
9 order by ranking
10 limit 5;
11
```

Data Output Messages Notifications



	country character varying	total_medals_in_all_events bigint	ranking bigint
1	USA	2110	1
2	Germany	1510	2
3	Russia	1638	3
4	France	767	4
5	UK	790	5

Question 13. Alternative Solution

Query Query History

```
1 with t1 as
2     (select nr.region, count(distinct (oh.event, oh.year) ) as total_medals_in_all_events
3     from olympics_history oh
4     join olympics_history_noc_regions nr on nr.noc = oh.noc
5     where medal <> 'NA'
6     group by nr.region
7     order by total_medals_in_all_events desc),
8     t2 as
9     (select *, dense_rank() over(order by total_medals_in_all_events desc) as rnk
10    from t1)
11 select *
12 from t2
13 where rnk <= 5;
14
```

14. List down the total gold, silver and bronze medals won by each country in all Olympics.

Query Query History

```
1 select nr.region as country,
2     count(distinct case when medal= 'Gold' then (oh.event, oh.year) end) as gold_medals,
3     count(distinct case when medal= 'Silver' then (oh.event, oh.year) end) as silver_medals,
4     count(distinct case when medal= 'Bronze' then (oh.event, oh.year) end) as bronze_medals
5 from Olympics_History as oh
6 left join Olympics_History_noc_regions as nr
7 on oh.noc=nr.noc
8 group by country
9 order by gold_medals desc, silver_medals desc, bronze_medals desc
10
```

Data Output Messages Notifications

	country character varying	gold_medals bigint	silver_medals bigint	bronze_medals bigint
1	USA	1131	901	791
2	Russia	727	600	589
3	Germany	578	592	596
4	UK	289	320	310
5	France	264	286	329
6	Italy	256	225	241
7	China	240	185	173
8	Sweden	200	215	242
9	Hungary	178	156	176

Output record is continuous.

15. List down total gold, silver and bronze medals won by each country corresponding to each Olympic game.

Query Query History

```

1 select oh.games,nr.region as country,
2       count(distinct case when medal= 'Gold' then (oh.event, oh.year) end) as gold_medals,
3       count(distinct case when medal= 'Silver' then (oh.event, oh.year) end) as silver_medals,
4       count(distinct case when medal= 'Bronze' then (oh.event, oh.year) end) as bronze_medals
5 from Olympics_History as oh
6 left join Olympics_History_noc_regions as nr
7 on oh.noc=nr.noc
8 group by oh.games, country
9 order by oh.games, country;
10 |

```

Data Output Messages Notifications

	games character varying	country character varying	gold_medals bigint	silver_medals bigint	bronze_medals bigint
1	1896 Summer	Australia	2	0	1
2	1896 Summer	Austria	2	1	2
3	1896 Summer	Denmark	1	2	3
4	1896 Summer	France	5	4	2
5	1896 Summer	Germany	7	5	2
6	1896 Summer	Greece	10	17	17
7	1896 Summer	Hungary	2	1	3
8	1896 Summer	Italy	0	0	0
9	1896 Summer	Sweden	0	0	0

Output record is continuous.

16. Which countries have never won gold medal but have won silver/bronze medals?

Query Query History

```
1 select nr.region as country,
2       count(distinct case when oh.medal='Gold' then (oh.event, oh.year) end) as Gold,
3       count(distinct case when oh.medal= 'Silver' then (oh.event, oh.year) end) as Silver,
4       count(distinct case when oh.medal= 'Bronze' then (oh.event, oh.year) end) as Bronze
5 from Olympics_History as oh
6 join Olympics_History_noc_regions as nr
7 on oh.noc=nr.noc
8 where oh.medal in ('Silver', 'Bronze') and nr.region not in (select nr.region
9                                                            from Olympics_History as oh
10                                                           right join Olympics_History_noc_regions as nr
11                                                           on oh.noc=nr.noc
12                                                           where oh.medal = 'Gold')
13 group by country
14 order by country;
15
```

Data Output Messages Notifications

	country character varying	gold bigint	silver bigint	bronze bigint
1	Afghanistan	0	0	2
2	Barbados	0	0	1
3	Bermuda	0	0	1
4	Botswana	0	1	0
5	Curacao	0	1	0

Output record is continuous.

17. In which Sport has team Nigeria won the highest medals?

Query Query History

```
1 select team, sport, count(distinct(event, year)) as total_medals
2 from Olympics_History
3 where medal <> 'NA' and team = 'Nigeria'
4 group by team, sport
5 order by total_medals desc
6 limit 1
7
```

Data Output Messages Notifications

	team character varying	sport character varying	total_medals bigint
1	Nigeria	Athletics	13

Question 17. Alternative Solution

Query Query History

```
1 with t1 as
2     (select team, sport, count(distinct(event, year)) as total_medals
3      from olympics_history
4      where medal <> 'NA'
5      and team = 'Nigeria'
6      group by team, sport
7      order by total_medals desc),
8     t2 as
9     (select *, rank() over(order by total_medals desc) as rnk
10      from t1)
11 select team, sport, total_medals
12 from t2
13 where rnk = 1;
14 |
```

A few Insights and Findings

One interesting insight that was uncovered from analyzing the Olympic dataset is the remarkable dominance of the United States in the Olympic Games. Over the years, the United States has consistently emerged as a powerhouse in terms of medal count across various Olympic events.

By aggregating the medal data for all Olympic Games, it was found that the United States has secured the highest number of gold medals, silver medals, and bronze medals. This sustained success showcases the country's exceptional athletic prowess and commitment to sporting excellence.

This insight not only highlights the sporting achievements of the United States but also underscores the significance of investment in sports infrastructure, talent development programs, and overall national commitment to athletic excellence. It serves as a testament to the country's rich sporting culture and its ability to produce world-class athletes who consistently excel on the Olympic stage.

Furthermore, this insight encourages a deeper exploration of the factors contributing to the United States' success in the Olympics, including training methodologies, sports policies, and the overall sporting ecosystem. It serves as a source of inspiration for aspiring athletes and nations striving to emulate the United States' success in the pursuit of Olympic glory.

Over the years, there has been a noticeable increase in the number of nations participating in the Olympics. This demonstrates the growing global interest and inclusivity of the games.

The Olympics have featured a variety of sports throughout its history. Some sports, such as Aeronautics, Motorboating, Military Ski Patrol, Roque, Ruby Sevens etc. were only played once in the Olympics. This highlights the diverse range of sports that have been included in the games over time.

Nigeria has achieved notable success in the sport of Athletics in the Olympics. However, it does not necessarily mean that Nigeria has the highest overall medal count in the Olympics. The success in Athletics indicates a strong performance by Nigerian athletes in this particular sport compared to other sports. To improve overall success and increase the medal count in the Olympics, Nigeria should diversify its sports focus, invest in athlete development, leverage sports science, foster collaborations, and improve sports governance. These strategies will help identify talent across various sports, provide necessary resources and support, optimize training methodologies, and ensure effective coordination and accountability. By implementing these measures, Nigeria can aim for broader success in the Olympics and enhance its overall standing in international sporting events.

Athletics, Cycling, Fencing, Gymnastics, and Swimming have been played in every edition of the Olympic Games. These sports have maintained their presence and popularity, highlighting their enduring significance in the Olympics. These insights highlight the historical significance, global appeal, and enduring popularity of these sports in the Olympic Games, emphasizing their role in shaping the spirit and success of the Olympics.

Appendix

SQL is the technique that has been used to perform analysis on this Olympics dataset. SQL is used in many relational database management systems such as PostgreSQL, MySQL, Microsoft SQL Server etc. In this analysis I used PostgreSQL

The dataset used for the analysis was gotten from Kaggle. The dataset is a historical dataset on the modern Olympic Games, including all the games from Athens 1896 to Rio 2016.

Below is the link to the dataset:

<https://www.kaggle.com/datasets/heesoo37/120-years-of-olympic-history-athletes-and-results>

Dataset was imported into PostgreSQL by the creating the two tables for the two dataset csv files, the two tables were called Olympics_History and Olympics_History_noc_regions

Below is the syntax for creating columns for the tables

Olympics_History Table

Query	Query History
1	<code>Create table Olympics_History</code>
2	<code>(</code>
3	<code>id int,</code>
4	<code>name varchar,</code>
5	<code>sex varchar,</code>
6	<code>age varchar,</code>
7	<code>height varchar,</code>
8	<code>weight varchar,</code>
9	<code>team varchar,</code>
10	<code>noc varchar,</code>
11	<code>games varchar,</code>
12	<code>year int,</code>
13	<code>season varchar,</code>
14	<code>city varchar,</code>
15	<code>sport varchar,</code>
16	<code>event varchar,</code>
17	<code>medal varchar</code>
18	<code>);</code>
19	

Olympics_History_noc_regions Table

Query	Query History
1	<code>create table Olympics_History_Noc_Regions</code>
2	<code>(</code>
3	<code>noc varchar,</code>
4	<code>region varchar,</code>
5	<code>notes varchar</code>
6	<code>); </code>
7	