

PROBLEM STATEMENTS FOR WRITING OF SQL QUERIES

We will compose 20 SQL queries utilizing this dataset. Each query will be accompanied by a corresponding problem statement, followed by a screenshot depicting the anticipated output.

1. How many Olympics games have been held?

Problem Statement: A SQL query to find the total no of Olympic Games held as per the dataset.

	total_olympic_games bigint
1	51

2. List down all Olympics games held so far.



Problem Statement: A SQL query to list down all the Olympic Games held so far.

	year integer	season character varying	city character varying
1	1896	Summer	Athina
2	1900	Summer	Paris
3	1904	Summer	St. Louis
4	1906	Summer	Athina
5	1908	Summer	London

plus 46 more rows...

3. Mention the total no of nations who participated in each Olympics game?



Problem Statement: SQL query to fetch total no of countries participated in each Olympics game.

	games character varying 	count bigint 
1	2016 Summer	204
2	2014 Winter	88
3	2012 Summer	203
4	2010 Winter	81
5	2008 Summer	202

plus 46 more rows...



4. Which year saw the highest and lowest no of countries participating in Olympics?

Problem Statement: A SQL query to return the Olympic Games which had the highest participating countries and the lowest participating countries.

	lowest_countries text 	highest_countries text 
1	1896 Summer - 12	2016 Summer - 204



5. Which nation has participated in all of the Olympic games

Problem Statement: SQL query to return the list of countries who have been part of every Olympics games.

	country character varying 	total_participated_events bigint 
1	France	51
2	Italy	51
3	Switzerland	51
4	UK	51

6. Identify the sport which was played in all Summer Olympics.

Problem Statement: SQL query to fetch the list of all sports which have been part of every summer season of Olympic.

	sport character varying 	no_of_games bigint 
1	Swimming	29
2	Cycling	29
3	Fencing	29
4	Gymnastics	29
5	Athletics	29

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

Problem Statement: Using SQL query, identifying the sport which were just played once in all of Olympics.

	sport character varying 🔒	no_of_games bigint 🔒	games character varying 🔒
1	Aeronautics	1	1936 Summer
2	Basque Pelota	1	1900 Summer
3	Cricket	1	1900 Summer
4	Croquet	1	1900 Summer
5	Jeu De Paume	1	1908 Summer
6	Military Ski Patrol	1	1924 Winter

plus 4 more rows...

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

Problem Statement: SQL query to fetch the total no of sports played in each Olympics.

	games character varying 🔒	no_of_games bigint 🔒
1	1896 Summer	9
2	1900 Summer	20
3	1904 Summer	18
4	1906 Summer	13
5	1908 Summer	24

plus 46 more rows...

9. Fetch oldest athletes to win a gold medal.

Problem Statement: SQL Query to fetch the details of the oldest athletes to win a gold medal at the Olympics.

name	sex	age	team	games	city	sport	event	medal
Oscar Gomer Swahn	M	64	Sweden	1912 Summer	Stockholm	Shooting	Shooting Men's Running Target, Single Shot, Team	Gold
Charles Jacobus	M	64	United States	1904 Summer	St. Louis	Roque	Roque Men's Singles	Gold

10. Find the Ratio of male and female athletes participated in all olympic games.

Problem Statement: SQL query to get the ratio of male and female participants.

	ratio_female_to_male
1	1 : 2.638

11. Fetch the top 5 athletes who have won the most gold medals.

Problem Statement: SQL query to fetch the top 5 athletes who have won the most gold medals.

	name	total_medals	rank
	character varying	bigint	bigint
1	Michael Fred Phelps, II	23	1
2	Raymond Clarence "Ray" Ewry	10	2
3	Paavo Johannes Nurmi	9	3
4	Frederick Carlton "Carl" Lewis	9	3
5	Larysa Semenivna Latynina (Diriy-)	9	3

plus 13 more rows...

12. Fetch the top 5 athletes who have won the most medals (gold/silver/bronze).

Problem Statement: SQL Query to fetch the top 5 athletes who have won the most medals (Medals include gold, silver and bronze).

	name character varying	team character varying	total_medals bigint	rank bigint
1	Michael Fred Phelps, II	United States	28	1
2	Larysa Semenivna Latynina (Diriy-)	Soviet Union	18	2
3	Nikolay Yefimovich Andrianov	Soviet Union	15	3
4	Ole Einar Bjrndalen	Norway	13	4
5	Takashi Ono	Japan	13	4

plus 9 more rows...

13. Fetch the top 5 most successful countries in Olympics. Success is defined by no of medals won.

Problem Statement: A SQL query to fetch the top 5 most successful countries in Olympics. (Success is defined by no of medals won).

	region character varying	total_medals bigint
1	USA	5637
2	Russia	3947
3	Germany	3756
4	UK	2068
5	France	1777

14. List down total gold, silver and bronze medals won by each country.

Problem Statement: A SQL query to list down the total gold, silver and bronze medals won by each country.

	country character varying	gold bigint	silver bigint	bronze bigint
1	USA	2638	1641	1358
2	Russia	1599	1170	1178
3	Germany	1301	1195	1260
4	UK	678	739	651
5	Italy	575	531	531

plus 131 more rows...

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

Problem Statement: SQL query to list down the total gold, silver and bronze medals won by each country corresponding to each Olympic game.

	games text	country text	gold bigint	silver bigint	bronze bigint
1	1896 Sum...	Australia	2	0	1
2	1896 Sum...	Austria	2	1	2
3	1896 Sum...	Denmark	1	2	3
4	1896 Sum...	France	5	4	2
5	1896 Sum...	Germany	25	5	2

plus 1635 more rows

16. Identify which country won the most gold, most silver and most bronze medals in each Olympic game.

Problem Statement: SQL query to display for each Olympic Games, which country won the highest gold, silver and bronze medals.

	games text	max_gold text	max_silver text	max_bronze text
1	1896 Summer	Germany - 25	Greece - 18	Greece - 20
2	1900 Summer	UK - 59	France - 101	France - 82
3	1904 Summer	USA - 128	USA - 141	USA - 125
4	1906 Summer	Greece - 24	Greece - 48	Greece - 30
5	1908 Summer	UK - 147	UK - 131	UK - 90

plus 46 more rows...

17. Identify which country won the most gold, most silver, most bronze medals and the most medals in each Olympic game.

Problem Statement: Similar to the previous query, identify during each Olympic Games, which country won the highest gold, silver and bronze medals. Along with this, identify also the country with the most medals in each Olympic game.

	games text	max_gold text	max_silver text	max_bronze text	max_medals text
1	1896 Summer	Germany - 25	Greece - 18	Greece - 20	Greece - 48
2	1900 Summer	UK - 59	France - 101	France - 82	France - 235
3	1904 Summer	USA - 128	USA - 141	USA - 125	USA - 394
4	1906 Summer	Greece - 24	Greece - 48	Greece - 30	Greece - 102
5	1908 Summer	UK - 147	UK - 131	UK - 90	UK - 368

plus 46 more rows...

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

Problem Statement: SQL Query to fetch details of countries which have won silver or bronze medal but never won a gold medal.

	country character varying	gold bigint	silver bigint	bronze bigint
1	Paraguay	0	17	0
2	Iceland	0	15	2
3	Montenegro	0	14	0
4	Malaysia	0	11	5
5	Namibia	0	4	0

plus 32 more rows...

19. In which Sport/event, India has won highest medals.

Problem Statement: Write SQL Query to return the sport which has won India the highest no of medals.

	sport character varying	total_medals bigint
1	Hockey	173

20. Break down all Olympic games where India won medal for Hockey and how many medals in each Olympic game.

Problem Statement: Write an SQL Query to fetch details of all Olympic Games where India won medal(s) in hockey.

	team character varying	sport character varying	games character varying	total_medals bigint
1	India	Hockey	1928 Summer	14
2	India	Hockey	1932 Summer	15

plus 9 more rows