

Olympic History: Athletes and Results SQL Script Result

Questions/Answers

- 1. How many Olympics games have been held?

Query Query History

1 SELECT COUNT(DISTINCT GAMES)

2 FROM ATHLETE_EVENTS;

Data Output Messages Notifications

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	count bigint	
1	51	

2. List down all Olympics games held so far.

Query		Query History
1	SELECT DISTINCT GAMES	
2	FROM ATHLETE_EVENTS;	
3		
Data Output		Messages Notifications
<div><div><div>≡+</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>		
	games character varying (50)	
1	1896 Summer	
2	1900 Summer	
3	1904 Summer	
4	1906 Summer	
5	1908 Summer	
6	1912 Summer	
7	1920 Summer	
8	1924 Summer	
9	1924 Winter	
10	1928 Summer	
11	1928 Winter	
12	1932 Summer	
13	1932 Winter	
14	1936 Summer	
15	1936 Winter	
16	1948 Summer	
17	1948 Winter	
Total rows: 51 of 51		Query complete 00:00:00.319

OR

Query

Query History

3

4 WITH OLYMPIC_GAMES AS

5 (

6 SELECT DISTINCT GAMES,

7 YEAR,

8 SEASON

9 FROM ATHLETE_EVENTS

10)









11 SELECT *




12 FROM OLYMPIC_GAMES;

Data Output

Messages

Notifications



	games character varying (50) 	year integer 	season character varying (50) 
1	1984 Summer	1984	Summer
2	1932 Summer	1932	Summer
3	1968 Winter	1968	Winter
4	1906 Summer	1906	Summer
5	1998 Winter	1998	Winter
6	1996 Summer	1996	Summer
7	1936 Summer	1936	Summer
8	1956 Summer	1956	Summer
9	2002 Winter	2002	Winter
10	1984 Winter	1984	Winter
11	1932 Winter	1932	Winter
12	1972 Winter	1972	Winter
Total rows: 51 of 51		Query complete 00:00:00.259	

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

Query		Query History
1		/* 3. Mention the total no of nations who participated in each olympics game?*/
2		
3		SELECT GAMES,
4		COUNT(DISTINCT NOC)
5		FROM ATHLETE_EVENTS
6		GROUP BY GAMES;
Data Output		Messages Notifications
	games character varying (50)	count bigint
1	1896 Summer	12
2	1900 Summer	31
3	1904 Summer	15
4	1906 Summer	21
5	1908 Summer	22
6	1912 Summer	29
7	1920 Summer	29
8	1924 Summer	45
9	1924 Winter	19
10	1928 Summer	46
11	1928 Winter	25
12	1932 Summer	47
13	1932 Winter	17
14	1936 Summer	49
Total rows: 51 of 51		Query complete 00:00:01.417

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

Query		Query History
7		
8		WITH COUNTRIES_PARTICIPANT AS
9		(
10		SELECT YEAR,
11		COUNT(DISTINCT NOC) TOTAL_COUNTRIES
12		FROM ATHLETE_EVENTS
13		GROUP BY YEAR
14)
15		SELECT
16		DISTINCT MAX(TOTAL_COUNTRIES) OVER (ORDER BY TOTAL_COUNTRIES DESC) AS HIGHEST_COUNTRIES,
17		MIN(TOTAL_COUNTRIES) OVER (ORDER BY TOTAL_COUNTRIES) AS LOWEST_COUNTRIES
18		FROM COUNTRIES_PARTICIPANT;
Data Output		Messages Notifications
	highest_countries bigint	lowest_countries bigint
1	207	12

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

Query Query History

```
1  /* 5. Which nation has participated in all of the olympic games? */
2
3  SELECT N.REGION,
4         COUNT(DISTINCT GAMES)
5  FROM NOC_REGIONS N
6  INNER JOIN ATHLETE_EVENTS A ON A.NOC = N.NOC
7  GROUP BY A.NOC,
8           N.REGION
9  HAVING COUNT(DISTINCT GAMES) =
10         (
11             SELECT COUNT(DISTINCT GAMES)
12             FROM ATHLETE_EVENTS
13         );
```

Data Output Messages Notifications

	region character varying (50)	count bigint
1	France	51
2	UK	51
3	Italy	51
4	Switzerland	51

OR

Query Query History

```
1  /* 5. Which nation has participated in all of the olympic games? */
2
3  WITH ALL_GAMES AS
4  (
5      SELECT NOC,
6             COUNT(DISTINCT GAMES) "total games"
7      FROM ATHLETE_EVENTS
8      GROUP BY NOC
9      HAVING COUNT(DISTINCT GAMES) =
10             (SELECT COUNT(DISTINCT GAMES)
11              FROM ATHLETE_EVENTS)
12  )
13  SELECT N.REGION,
14         "total games"
15  FROM NOC_REGIONS N
16  INNER JOIN ALL_GAMES A ON A.NOC = N.NOC;
```

Data Output Messages Notifications

	region character varying (50)	total games bigint
1	France	51
2	UK	51
3	Italy	51
4	Switzerland	51

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

Query

Query History

1

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/* 6. Identify the sport which was played in all summer olympics.*/

SELECT SPORT,

COUNT(DISTINCT GAMES) "Total Games"

FROM ATHLETE_EVENTS

WHERE GAMES ilike '%Summer%'

GROUP BY SPORT

HAVING COUNT(DISTINCT GAMES) =

(

SELECT COUNT(DISTINCT GAMES)

FROM ATHLETE_EVENTS

WHERE GAMES ilike '%Summer%'

);

Data Output

Messages

Notifications

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	sport character varying (50)	Total Games bigint
1	Athletics	29
2	Cycling	29
3	Fencing	29
4	Gymnastics	29
5	Swimming	29

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

Query









Query History



```
1  /* 7. Which Sports were just played only once in the olympics? */
2
3  SELECT SPORT,
4         COUNT(DISTINCT GAMES) "Total Games"
5  FROM ATHLETE_EVENTS
6  GROUP BY SPORT
7  HAVING COUNT(DISTINCT GAMES) = 1;
```

Data Output

Messages

Notifications



	sport character varying (50) 	Total 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	/* 8. Fetch the total no of sports played in each olympic games.*/
2	
3	SELECT GAMES,
4	COUNT(DISTINCT SPORT) "Total Sports"
5	FROM ATHLETE_EVENTS
6	GROUP BY GAMES
7	ORDER BY "Total Sports" DESC;
Data Output Messages Notifications	
	games character varying (50)
	Total Sports bigint
1	2008 Summer
2	2000 Summer
3	2004 Summer
4	2016 Summer
5	2012 Summer
6	1996 Summer
7	1992 Summer
8	1988 Summer
9	1920 Summer
10	1984 Summer
11	1908 Summer
12	1936 Summer
13	1972 Summer
Total rows: 51 of 51 Query complete 00:00:00.549	

9. Fetch details of the oldest athletes to win a gold medal.

Query Query History	
1	/* 9. Fetch details of the oldest athletes to win a gold medal.*/
2	
3	SELECT *
4	FROM ATHLETE_EVENTS
5	WHERE MEDAL ilike 'gold'
6	AND AGE =
7	(SELECT MAX(AGE)
8	FROM ATHLETE_EVENTS
9	WHERE MEDAL ilike 'gold')
10	ORDER BY AGE DESC;
Data Output Messages Notifications	
	id integer
	name character varying (200)
	sex character var
	age integer
	height character var
	weight character var
	team character varying
	noc character var
	games character varying (50)
	year integer
	season character vary
1	53238 Charles Jacobus M 64 [null] [null] United States USA 1904 Summer 1904 Summer
2	117046 Oscar Gomer Swahn M 64 [null] [null] Sweden SWE 1912 Summer 1912 Summer

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

Query

Query History

```
1  /* 10. Find the Ratio of male and female athletes participated in all olympic games.*/
2
3  WITH MALES AS
4      (SELECT COUNT(*) "Males"
5       FROM ATHLETE_EVENTS
6       WHERE SEX ilike 'm' ),
7  FEMALES AS
8      (SELECT COUNT(SEX) "Females"
9       FROM ATHLETE_EVENTS
10      WHERE SEX ilike 'f' )
11  SELECT "Males",
12         "Females",
13         CONCAT(ROUND("Males" ::decimal / "Females", 2), ' : ', 1)AS "M:F Ratio"
14  FROM MALES,
15         FEMALES;
```

Data Output

Messages

Notifications

	Males bigint	Females bigint	M:F Ratio text
1	196594	74522	2.64 : 1

11. Find the Ratio of male and female athletes participated in each Olympic game.

Query

Query History

1

/* 11. Find the Ratio of male and female athletes participated in each olympic game.*/

2

3

WITH MALES AS

4

(SELECT GAMES,

5

COUNT(SEX) "Males"

6

FROM ATHLETE_EVENTS

7

WHERE SEX ilike 'm'

8

GROUP BY GAMES),

9

FEMALES AS

10

(SELECT GAMES,

11

COUNT(SEX) "Females"

12

FROM ATHLETE_EVENTS

13

WHERE SEX ilike 'f'

14

GROUP BY GAMES)

15

SELECT GAMES,

16

Males,

17

Females,

18

Males/Females AS Ratio

19

FROM (MALES,FEMALES)









20

ORDER BY GAMES;

Data Output

Messages

Notifications



	games character varying (50)	Males bigint	Females bigint	M:F Ratio numeric
2	1900 Summer	1903	33	57.67
3	1904 Summer	1285	16	80.31
4	1906 Summer	1722	11	156.55
5	1908 Summer	3054	47	64.98
6	1912 Summer	3953	87	45.44
7	1920 Summer	4158	134	31.03
8	1924 Summer	4989	244	20.45
9	1924 Winter	443	17	26.06
10	1928 Summer	4588	404	11.36
11	1928 Winter	549	33	16.64
12	1932 Summer	2622	347	7.56
13	1932 Winter	330	22	15.00

Total rows: 51 of 51

Query complete 00:00:00.288

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

Query







Query History

```
1  /* 12. Fetch the top 5 athletes who have won the most gold medals.*/
2
3  WITH GOLD_MEDAL_RANK AS
4      (SELECT ID,
5           NAME,
6           COUNT(MEDAL) "Gold Medals",
7           DENSE_RANK() OVER (ORDER BY COUNT(MEDAL) DESC) RANK_NUM
8           FROM ATHLETE_EVENTS
9           WHERE MEDAL ilike 'gold'
10          GROUP BY ID,
11                 NAME
12         )
13  SELECT NAME,
14         "Gold Medals"
15  FROM GOLD_MEDAL_RANK
16  WHERE RANK_NUM <= 5;
```

Data Output

Messages

Notifications



	name character varying (200)	Gold Medals bigint
1	Michael Fred Phelps, II	23
2	Raymond Clarence "Ray" Ewry	10
3	Frederick Carlton "Carl" Lewis	9
4	Paavo Johannes Nurmi	9
5	Mark Andrew Spitz	9
6	Larysa Semenivna Latynina (Diriy-)	9
7	Birrit Fischer-Schmidt	8

Total rows: 18 of 18 Query complete 00:00:00.198

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

Query








Query History

```
1  /* 13. Fetch the top 5 athletes who have won the most medals (gold/silver/bronze).*/
2
3  WITH MEDAL_RANK AS
4      (SELECT ID,
5           NAME,
6           COUNT(MEDAL) "Medals",
7           DENSE_RANK() OVER (ORDER BY COUNT(MEDAL) DESC) RANK_NUM
8      FROM ATHLETE_EVENTS
9      WHERE MEDAL <> 'NA'
10     GROUP BY ID,
11            NAME
12     )
13  SELECT NAME,
14         "Medals",
15         RANK_NUM
16  FROM MEDAL_RANK
17  WHERE RANK_NUM <= 5;
```

Data Output

Messages

Notifications



	name	Medals	rank_num
	character varying (200)	bigint	bigint
1	Michael Fred Phelps, II	28	1
2	Larysa Semenivna Latynina (Diriy-)	18	2
3	Nikolay Yefimovich Andrianov	15	3
4	Borys Anfiyanovych Shakhlin	13	4
5	Takashi Ono	13	4
6	Ole Einar Birndalen	13	4

Total rows: 15 of 15

Query complete 00:00:00.099

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

Query

Query History

```
1  /* 14. Fetch the top 5 most successful countries in olympics.
2  Success is defined by no of medals won.*/
3
4  WITH MEDAL_RANK AS
5  (
6      SELECT NOC,
7             COUNT(MEDAL) "Medals",
8             DENSE_RANK() OVER (ORDER BY COUNT(MEDAL) DESC) RANK_NUM
9      FROM ATHLETE_EVENTS
10     WHERE MEDAL <> 'NA'
11     GROUP BY NOC
12 )
13 SELECT REGION,
14        "Medals"
15 FROM MEDAL_RANK
16 JOIN NOC_REGIONS ON NOC_REGIONS.NOC = MEDAL_RANK.NOC
17 WHERE RANK_NUM <= 5
18 ORDER BY "Medals" DESC;
```

Data Output

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	region character varying (50)	Medals bigint
1	USA	5637
2	Russia	2503
3	Germany	2165
4	UK	2068
5	France	1777

Total rows: 5 of 5

Query complete 00:00:00.107

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

Query

Query History

```
1  /* 15. List down total gold, silver and broze medals won by each country. */
2
3  WITH GOLD AS
4      (SELECT NOC,
5              COUNT(MEDAL) "Gold Medals"
6              FROM ATHLETE_EVENTS
7              WHERE MEDAL ilike 'gold'
8              GROUP BY NOC
9      ),
10     SILVER AS
11     (SELECT NOC,
12           COUNT(MEDAL) "Silver Medals"
13           FROM ATHLETE_EVENTS
14           WHERE MEDAL ilike 'silver'
15           GROUP BY NOC
16     )
```

Data Output

Messages

Notifications

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

Query

Query History

```
1  /* 16. List down total gold, silver and broze medals won by each country corresponding to each olympic games. */
2
3  SELECT REGION,
4  GAMES,
5  SUM(CASE WHEN MEDAL = 'Gold' THEN 1 ELSE 0 END) AS GOLD,
6  SUM(CASE WHEN MEDAL in ('Silver') THEN 1 ELSE 0 END) AS SILVER,
7  SUM(CASE WHEN MEDAL = 'Bronze' THEN 1 ELSE 0 END) AS BRONZE
8  FROM
9  (
10   SELECT *
11   FROM ATHLETE_EVENTS
12   WHERE MEDAL <> 'NA'
13  ) T
14  JOIN NOC_REGIONS ON NOC_REGIONS.NOC = T.NOC
15  GROUP BY GAMES,
16  REGION
```

Data Output

Messages

Notifications

	region character varying (50)	games character varying (50)	gold bigint	silver bigint	bronze bigint
1	Afghanistan	2012 Summer	0	0	1
2	Afghanistan	2008 Summer	0	0	1
3	Algeria	1996 Summer	2	0	1
4	Algeria	2000 Summer	1	1	3
5	Algeria	1992 Summer	1	0	1
6	Algeria	2012 Summer	1	0	0
7	Algeria	1984 Summer	0	0	2
8	Algeria	2008 Summer	0	1	1

Total rows: 1000 of 1640

Query complete 00:00:00.258

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

Query

Query History

```
1  /* 17. Identify which country won the most gold, most silver and most bronze medals in each olympic games. */
2
3  WITH CTE_GETTOTALBYNOC AS
4      (SELECT GAMES,
5              NOC,
6              SUM(CASE WHEN MEDAL = 'Gold' THEN 1 ELSE 0 END) AS CNT_GOLD,
7              SUM(CASE WHEN MEDAL = 'Silver' THEN 1 ELSE 0 END) AS CNT_SILVER,
8              SUM(CASE WHEN MEDAL = 'Bronze' THEN 1 ELSE 0 END) AS CNT_BRONZE
9      FROM
10         (SELECT *
11          FROM ATHLETE_EVENTS
12          WHERE MEDAL <> 'NA' ) X
13      GROUP BY GAMES,
14              NOC
15      ORDER BY GAMES),
16  CTE_GETMAXLMEDAL AS
```

Data Output

Messages

Notifications

	games character varying (50)	max_gold text	max_silver text	max_bronze text
1	1896 Summer	GER - 25	GRE - 18	GRE - 20
2	1900 Summer	GBR - 59	FRA - 101	FRA - 82
3	1904 Summer	USA - 128	USA - 141	USA - 125
4	1906 Summer	GRE - 24	GRE - 48	GRE - 30
5	1908 Summer	GBR - 147	GBR - 131	GBR - 90
6	1912 Summer	SWE - 103	GBR - 64	GBR - 59
7	1920 Summer	USA - 111	FRA - 71	BEL - 66
8	1924 Summer	USA - 67	FRA - 51	USA - 40
Total rows: 53 of 53		Query complete 00:00:00.226		

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

Query

Query History

```
1  /* 18. Identify which country won the most gold, most silver, most bronze medals
2  and the most medals in each olympic games. */
3
4  WITH CTE_GETTOTALBYNOC AS
5  (SELECT GAMES,
6       NOC,
7       SUM(CASE WHEN MEDAL = 'Gold' THEN 1 ELSE 0 END) AS CNT_GOLD,
8       SUM(CASE WHEN MEDAL = 'Silver' THEN 1 ELSE 0 END) AS CNT_SILVER,
9       SUM(CASE WHEN MEDAL = 'Bronze' THEN 1 ELSE 0 END) AS CNT_BRONZE ,
10      SUM(CASE WHEN MEDAL <> 'NA' THEN 1 ELSE 0 END) AS CNT_MEDALS
11  FROM
12  (SELECT *
```

Data Output

Messages

Notifications

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

Query

Query History

```

1  /* 19. Which countries have never won gold medal but have won silver/bronze medals? */
2
3  WITH GOLD AS
4      (SELECT NOC,
5             COUNT(MEDAL) "Gold Medals"
6             FROM ATHLETE_EVENTS
7             WHERE MEDAL ilike 'gold'
8             GROUP BY NOC
9      ),
10     SILVER AS
11     (SELECT NOC,
12            COUNT(MEDAL) "Silver Medals"

```

Data Output

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	region character varying (50) 🔒	Silver Medals bigint 🔒	Bronze Medals bigint 🔒
1	Ghana	1	22
2	Paraguay	17	0
3	Iceland	15	2
4	Malaysia	11	5
5	Montenegro	14	0
6	Czech Republic	1	11
7	Philippines	3	7
8	Moldova	3	5
9	Saudi Arabia	1	5
10	Qatar	1	4
11	Trinidad	0	5

Total rows: 40 of 40

Query complete 00:00:00.929

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

Query








Query History

```
1  /* 20. In which Sport/event, India has won highest medals? */
2
3  WITH MEDALS AS
4      (SELECT SPORT,
5           COUNT(MEDAL)"total"
6           FROM ATHLETE_EVENTS
7           WHERE NOC ilike 'ind'
8           GROUP BY SPORT
9           ORDER BY COUNT(MEDAL)
10      ),
11  RANK_SPORT AS
12      (SELECT *,
13           RANK() OVER(ORDER BY "total" DESC) AS "rank"
14           FROM MEDALS
15      )
16  SELECT SPORT,
17         "total"
18  FROM RANK_SPORT
19  WHERE "rank" = 1;
```

Data Output

Messages

Notifications



	sport character varying (50)	total bigint
1	Hockey	345

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

Query

Query History

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/* 21. Break down all olympic games where india won medal for Hockey and how many medals in each olympic games. */

SELECT SPORT, GAMES, COUNT(MEDAL) "total" FROM ATHLETE_EVENTS WHERE NOC ilike 'ind' AND SPORT ilike 'hockey' GROUP BY SPORT, GAMES ORDER BY COUNT(MEDAL) DESC;

Data Output

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	sport character varying (50) 🔒	games character varying (50) 🔒	total bigint 🔒
1	Hockey	2016 Summer	32
2	Hockey	1980 Summer	30
3	Hockey	1948 Summer	20
4	Hockey	1936 Summer	19
5	Hockey	1956 Summer	17
6	Hockey	1976 Summer	16
7	Hockey	1968 Summer	16
8	Hockey	1984 Summer	16
9	Hockey	1988 Summer	16
10	Hockey	1996 Summer	16

Total rows: 20 of 20

Query complete 00:00:00.302