



```
1  -- -----
2  -- How many Olympic games have been held?
3  •   SELECT COUNT(DISTINCT games) AS No_of_olympic_games
4     FROM athlete_events;
5
6
```

	No_of_olympic_games
▶	51

```
6  -- List down all Olympic games held so far.
7  •   SELECT DISTINCT games,season,city
8      FROM athlete_events
9      order by 1;
10
```

Result Grid  Filter Rows: Export:  Wrap Cell Content: 

	games	season	city
▶	1896 Summer	Summer	Athina
	1900 Summer	Summer	Paris
	1904 Summer	Summer	St. Louis
	1906 Summer	Summer	Athina
	1908 Summer	Summer	London
	1912 Summer	Summer	Stockholm
	1920 Summer	Summer	Antwerpen
	1924 Summer	Summer	Paris
	1924 Winter	Winter	Chamonix
	1928 Summer	Summer	Amsterdam
	1928 Winter	Winter	Sankt Moritz
	1932 Summer	Summer	Los Angeles
	1932 Winter	Winter	Lake Placid
	1936 Summer	Summer	Berlin
	1936 Winter	Winter	Garmisch-Partenkirchen
	1948 Summer	Summer	London
	1948 Winter	Winter	Sankt Moritz
	1952 Summer	Summer	Helsinki
	1952 Winter	Winter	Oslo
	1956 Summer	Summer	Melbourne
	1956 Summer	Summer	Stockholm
	1956 Winter	Winter	Cortina d'Ampezzo
	1960 Summer	Summer	Roma

12

13 -- Mention the total number of nations that participated in each Olympic game

14 • **SELECT** games,COUNT(DISTINCT AT.NOC) **AS** Total_no_of_nations_participated

15 **FROM** athlete_events **AT JOIN**

16 noc_regions NR **ON** NR.noc=AT.NOC

17 **GROUP BY** 1

18 **ORDER BY** 1

19

	games	Total_no_of_nations_participated
▶	1896 Summer	12
	1900 Summer	31
	1904 Summer	15
	1906 Summer	21
	1908 Summer	22
	1912 Summer	29
	1920 Summer	29
	1924 Summer	45
	1924 Winter	19
	1928 Summer	46
	1928 Winter	25
	1932 Summer	47
	1932 Winter	17
	1936 Summer	49
	1936 Winter	28
	1948 Summer	59
	1948 Winter	28
	1952 Summer	69



20 -- Which year saw the highest and lowest number of countries participating in the Olympics?

```
21 (
22     SELECT CONCAT("Highest","-",games) AS no_games,
23     COUNT(DISTINCT NOC) AS No_of_countries_participating
24     FROM athlete_events
25     GROUP BY 1
26     ORDER BY 2 DESC
27     LIMIT 1
28 )
29 UNION ALL
30 (
31     SELECT CONCAT("LOWEST","-",games) AS no_games,
32     COUNT(DISTINCT NOC) AS No_of_countries_participating
33     FROM athlete_events
34     GROUP BY 1
35     ORDER BY 2 ASC
36     LIMIT 1
37 )
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	no_games	No_of_countries_participating
▶	Highest-2016 Summer	207
	LOWEST-1896 Summer	12



Limit to 10000 rows



```
38  -- Which nation has participated in all of the Olympic games?
39
40 •   SELECT AT.NOC,region AS Nations,COUNT(DISTINCT games) AS No_of_olympic_games_till_date
41   FROM athlete_events AT JOIN
42   noc_regions NR ON NR.noc=AT.NOC
43   GROUP BY 1,2
44   HAVING COUNT(DISTINCT games)=(SELECT COUNT(DISTINCT games) FROM athlete_events)
45
```

Result Grid | Filter Rows: | Export: Wrap Cell Content:

	NOC	Nations	No_of_olympic_games_till_date
▶	FRA	France	51
	GBR	UK	51
	ITA	Italy	51
	SUI	Switzerland	51

```
47 -- Identify the sport played in all Summer Olympics.
48 • SELECT DISTINCT SPORT
49 FROM athlete_events
50 WHERE season="Summer";
```

Result Grid Filter Rows: Export: Wrap Cell Content:

SPORT
Basketball
Judo
Football
Tug-Of-War
Athletics
Swimming
Badminton
Sailing
Gymnastics
Art Competitions
Handball
Weightlifting
Wrestling
Water Polo
Hockey
Rowing
Fencing
Equestrianism
Shooting
Boxing
Taekwondo
Cycling
Diving
Canoeing
Tennis

Query 1 SQL File 4* SQL File 4* x

Limit to 50000 rows

```
51
52 -- Which sports were played only once in the Olympics Seasons?
53 • SELECT sport,COUNT(DISTINCT games) AS no_of_times_played
54 FROM athlete_events
55 GROUP BY 1
56 HAVING COUNT(DISTINCT games)=1;
57
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	sport	no_of_times_played
▶	Aeronautics	1
	Basque Pelota	1
	Cricket	1
	Croquet	1
	Jeu De Paume	1
	Military Ski Patrol	1
	Motorboating	1
	Racquets	1
	Roque	1
	Rugby Sevens	1



```
58
59 -- Fetch the total number of sports played in each Olympic game.
60
61 • SELECT games,COUNT(DISTINCT sport) AS no_of_sports_played
62 FROM athlete_events
63 GROUP BY 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	games	no_of_sports_played
▶	1896 Summer	9
	1900 Summer	20
	1904 Summer	18
	1906 Summer	13
	1908 Summer	24
	1912 Summer	17
	1920 Summer	25
	1924 Summer	20
	1924 Winter	10
	1928 Summer	17
	1928 Winter	8
	1932 Summer	18
	1932 Winter	7
	1936 Summer	24
	1936 Winter	8
	1948 Summer	20
	1948 Winter	9
	1952 Summer	19
	1952 Winter	8
	1956 Summer	19

Result 42 x


```
64 -- Fetch details of the oldest athletes to win a gold medal.
65 •   WITH CTE AS
66     (
67     SELECT * FROM athlete_events
68     WHERE medal="Gold"
69     )
70     SELECT * FROM CTE
71     WHERE age=(SELECT MAX(age) FROM CTE);
72
```

Result Grid  Filter Rows: Export:  Wrap Cell Content: 

	ID	name	sex	age	height	weight	team	NOC	games	year	season	city	sport	event
▶	113773	Galen Carter "G. C." Spencer	M	63	165	70	Potomac Archers	USA	1904 Summer	1904	Summer	St. Louis	Archery	Archery Men's Team Round



```
71  -- Find the ratio of male and female athletes participating in all Olympic games.
72  •  SELECT
73      CONCAT
74      (
75          "1",
76          ":",
77          ROUND(
78              (SELECT COUNT(sex) FROM athlete_events WHERE sex="F")/
79              (SELECT COUNT(sex) FROM athlete_events WHERE sex="M")
80              ),2
81      ) AS Ratio_of_male_to_female;
```

Result Grid Filter Rows: Export: Wrap Cell Content:

Ratio_of_male_to_female

1:02

```
Query 1  SQL File 4*  SQL File 4* x
Limit to 50000 rows
82  -- Fetch the top 5 athletes who have won the most gold medals
83 •  SELECT name,no_of_gold_medals FROM
84  (
85      WITH CTE AS(
86          SELECT name,COUNT(*) AS no_of_gold_medals
87          FROM athlete_events
88          WHERE medal="Gold"
89          GROUP BY 1
90      )
91      SELECT *,DENSE_RANK() OVER(ORDER BY no_of_gold_medals DESC) AS d_rank
92      FROM CTE
93  ) T
94  WHERE d_rank<6;
95
```

Result Grid Filter Rows: Export: Wrap Cell Content: A

	name	no_of_gold_medals
▶	Michael Fred Phelps, II	23
	Raymond Clarence "Ray" E...	10
	Larysa Semenivna Latynina ...	9
	Frederick Carlton "Carl" Le...	9
	Paavo Johannes Nurmi	9
	Mark Andrew Spitz	9
	Jennifer Elisabeth "Jenny" ...	8
	Matthew Nicholas "Matt" Bi...	8
	Ole Einar Bjrndalen	8
	Usain St. Leo Bolt	8

```
95  -- Fetch the top 5 athletes who have won the most medals (gold/silver/bronze).
96  •  SELECT name,total_medals FROM
97  (
98      WITH CTE AS(
99          SELECT name,COUNT(medal) AS total_medals
100         FROM athlete_events
101         WHERE medal <> "NA"
102         GROUP BY 1
103     )
104     SELECT *,DENSE_RANK() OVER(ORDER BY total_medals DESC) AS d_rank
105     FROM CTE
106 ) T
107 WHERE d_rank<6;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	name	total_medals
▶	Michael Fred Phelps, II	28
	Larysa Semenivna Latynina ...	18
	Nikolay Yefimovich Andrianov	15
	Ole Einar Bjrndalen	13
	Takashi Ono	13
	Borys Anfiyanovych Shakhlin	13
	Edoardo Mangiarotti	13
	Sawao Kato	12
	Ryan Steven Lochte	12
	Aleksey Yuryevich Nemov	12
	Paavo Johannes Nurmi	12
	Birgit Fischer-Schmidt	12

```
108      -- Fetch the top 5 most successful countries in the Olympics based on the number of medals won.
109 •      SELECT region,total_medals
110      FROM
111      (
112      WITH CTE AS(
113      SELECT region,COUNT(medal) AS total_medals
114      FROM athlete_events AT JOIN
115      noc_regions NR ON NR.noc=AT.NOC
116      WHERE medal <>"NA"
117      GROUP BY 1
118      )
119      SELECT *,DENSE_RANK() OVER(ORDER BY total_medals DESC) AS d_rank
120      FROM CTE
121      ) T
122      WHERE d_rank <6;
```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	region	total_medals
▶	USA	5437
	Russia	3945
	Germany	3752
	UK	2066
	France	1777

```

L24 -- List down total gold, silver, and bronze medals won by each country.
L25 • SELECT region,
L26 SUM(CASE WHEN medal="Gold" THEN 1 ELSE 0 END) AS gold_medals,
L27 SUM(CASE WHEN medal="Silver" THEN 1 ELSE 0 END) AS Silver_medals,
L28 SUM(CASE WHEN medal="Bronze" THEN 1 ELSE 0 END) AS Bronze_medals
L29 FROM athlete_events AT JOIN
L30 noc_regions NR ON NR.noc=AT.NOC
L31 GROUP BY 1;

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	region	gold_medals	Silver_medals	Bronze_medals
▶	China	351	349	293
	Denmark	179	241	177
	Netherlands	280	336	412
	USA	2535	1596	1306
	Finland	198	270	432
	Norway	378	361	294
	Romania	161	200	292
	Estonia	13	12	25
	France	501	610	666
	Morocco	6	5	12
	Spain	110	243	136
	Egypt	7	8	12
	Iran	18	21	29
	Bulgaria	54	144	144
	Italy	575	531	531
	Chad	0	0	0
	Azerbaijan	7	12	25
	Sudan	0	1	0
	Russia	1597	1170	1178

```

132  -- List down total gold, silver, and bronze medals won by each country corresponding to each Olympic game
133 •      SELECT games,region,
134          SUM(CASE WHEN medal="Gold" THEN 1 ELSE 0 END) AS gold_medals,
135          SUM(CASE WHEN medal="Silver" THEN 1 ELSE 0 END) AS Silver_medals,
136          SUM(CASE WHEN medal="Bronze" THEN 1 ELSE 0 END) AS Bronze_medals
137      FROM athlete_events AT JOIN
138      noc_regions NR ON NR.noc=AT.NOC
139      GROUP BY games,region
140      ORDER BY games;

```

 Result Grid Filter Rows: Export: Wrap Cell Content:

	games	region	gold_medals	Silver_medals	Bronze_medals
▶	1896 Summer	Australia	2	0	1
	1896 Summer	Austria	2	1	2
	1896 Summer	Denmark	1	2	3
	1896 Summer	France	5	4	2
	1896 Summer	Germany	25	5	2
	1896 Summer	Greece	10	18	20
	1896 Summer	Hungary	2	1	3
	1896 Summer	Italy	0	0	0
	1896 Summer	Sweden	0	0	0
	1896 Summer	Switzerland	1	2	0
	1896 Summer	UK	3	3	3
	1896 Summer	USA	11	7	2
	1900 Summer	Argentina	0	0	0
	1900 Summer	Australia	3	0	3
	1900 Summer	Austria	0	3	3
	1900 Summer	Belgium	6	24	13
	1900 Summer	Brazil	0	0	0
	1900 Summer	Canada	1	0	1
	1900 Summer	Colombia	0	1	0


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

```
142 • WITH CTE AS(
```

```
143     SELECT T1.games,T1.region AS R1,T1.Gold_medals AS most_Golds,
```

```
144           T2.region AS R2,T2.Silver_medals AS most_Silvers,T3.region AS R3,
```

```
145           T3.Bronze_medals AS most_Bronzes
```

```
146     FROM
```

```
147     (
```

```
148     SELECT games,region,gold_medals
```

```
149     FROM(
```

```
150     WITH CTE AS (
```

```
151     SELECT games,region,COUNT(medal) AS gold_medals
```

```
152     FROM athlete_events AT JOIN
```

```
153     noc_regions NR ON NR.noc=AT.NOC
```

```
154     WHERE medal ="Gold"
```

```
155     GROUP BY 1,2
```

```
156     )
```



```
SELECT *,DENSE_RANK() OVER( PARTITION BY games ORDER BY gold_medals DESC) AS d_rank
FROM CTE
) a
WHERE d_rank =1
) T1 JOIN
(
SELECT games,region,silver_medals
FROM(
WITH CTE AS (
SELECT games,region,COUNT(medal) AS silver_medals
FROM athlete_events AT JOIN
noc_regions NR ON NR.noc=AT.NOC
WHERE medal ="Silver"
GROUP BY 1,2
)
```



Limit to 50000 rows

```
171 )
172 SELECT *,DENSE_RANK() OVER( PARTITION BY games ORDER BY Silver_medals DESC) AS d_rank
173 FROM CTE
174 ) a
175 WHERE d_rank =1
176 ) T2 ON T1.games = T2.games JOIN
177 (
178 SELECT games,region,Bronze_medals
179 FROM(
180 WHERE d_rank =1
181 )
182 T3 ON T3.games=T2.games
183 )
184 SELECT games,
185         CONCAT(R1, ' ', '-',CAST(most_Golds AS CHAR)) MOST_GOLD,
186         CONCAT(R2, ' ', '-',CAST(most_Silvers AS CHAR)) MOST_SILVER,
187         CONCAT(R3, ' ', '-',CAST(most_Bronzes AS CHAR)) MOST_BRONZE
188 FROM CTE;
```

```

190 IERE d_rank =1
191
192 : ON T3.games=T2.games
193
194 SELECT games

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	games	MOST_GOLD	MOST_SILVER	MOST_BRONZE
▶	1896 Summer	Germany -25	Greece -18	Greece -20
	1900 Summer	UK -5	France -101	France -82
	1904 Summer	USA -120	USA -140	USA -124
	1906 Summer	Greece -24	Greece -48	Greece -30
	1908 Summer	UK -146	UK -131	UK -90
	1912 Summer	Sweden -103	UK -64	UK -59
	1920 Summer	USA -106	France -71	Belgium -66
	1924 Summer	USA -92	France -51	USA -48
	1924 Winter	UK -16	USA -10	UK -11
	1928 Summer	USA -46	Netherlands -29	Germany -41
	1928 Winter	Canada -12	Sweden -13	Switzerland -12
	1932 Summer	USA -75	USA -45	USA -57
	1932 Winter	Canada -14	USA -19	Germany -14
	1936 Summer	Germany -92	Germany -70	Germany -61
	1936 Winter	UK -12	Canada -13	USA -11
	1948 Summer	USA -80	UK -42	USA -32
	1948 Summer	USA -80	UK -42	Netherlands -32
	1948 Winter	Canada -13	Czech Republic...	Switzerland -19
	1952 Summer	USA -76	Russia -62	Hungary -32
	1952 Winter	Canada -16	USA -22	Sweden -23
	1956 Summer	Russia -68	Russia -46	Russia -55
	1956 Winter	Russia -26	USA -18	Canada -18
	1960 Summer	USA -74	Russia -63	Russia -45
	1960 Winter	USA -16	Canada -17	Russia -28
	1964 Summer	USA -89	Russia -63	Russia -51
	1964 Winter	Russia -30	Sweden -21	Czech Republic...

91 Which countries have never won a gold medal but have won silver/bronze medals?

92 • **SELECT** region **FROM** noc_regions

93 **WHERE** noc **IN** (

94 **SELECT DISTINCT** NOC **FROM** athlete_events

95 **WHERE** NOC **NOT IN** (**SELECT DISTINCT** NOC **FROM** athlete_events

96 **WHERE** medal = "Gold")

97 **AND**

98 medal <> "NA"

99);

Result Grid  Filter Rows: Export:  Wrap Cell Content: 

region

▶ Afghanistan

Curacao

Barbados

Bermuda

Czech Republic

Botswana

Cyprus

Djibouti

Eritrea

Gabon

Ghana

Guatemala

Guyana

```
00 -- In which Sport/event did India win the highest number of medals?
01 • SELECT sport,COUNT(medal) AS Total_medals FROM athlete_events
02 WHERE NOC="IND" AND medal<>"NA"
03 GROUP BY 1
04 ORDER BY 2 DESC;
05
06
```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	sport	Total_medals
▶	Hockey	173
	Alpinism	7
	Wrestling	5
	Shooting	4
	Boxing	2
	Badminton	2
	Athletics	2
	Weightlifting	1
	Tennis	1

Result
GridForm
EditorField
TypesQuery
Stats

```

213 -- List down the percentage contribution in medals in INDIA due to sport HOCKEY in each Olympic game.
214 • WITH CTE AS
215 (
216 SELECT games,
217 SUM(CASE WHEN sport="Hockey" THEN 1 ELSE 0 END) AS Hockey_medals,
218 COUNT(medal) AS Total_medals
219 FROM athlete_events
220 WHERE NOC="IND" AND medal <> "NA"
221 GROUP BY 1
222 ORDER BY 1
223 )
224 SELECT *,ROUND(Hockey_medals*100/Total_medals,1) AS pct_contribution
225 FROM CTE;

```

 Result Grid Filter Rows: Export: Wrap Cell Content:

games	Hockey_medals	Total_medals	pct_contribution
1952 Summer	14	15	93.3
1956 Summer	17	17	100.0
1960 Summer	13	13	100.0
1964 Summer	15	15	100.0
1968 Summer	16	16	100.0
1972 Summer	14	14	100.0
1980 Summer	16	16	100.0
1996 Summer	0	1	0.0
2000 Summer	0	1	0.0
2004 Summer	0	1	0.0
2008 Summer	0	3	0.0
2012 Summer	0	6	0.0
2016 Summer	0	2	0.0

Result 153 x

Result Grid

Form Editor

Field Types

```
37 -- LIST THE SPORTS WHERE FEMALES PERFORMED BETTER THAN MEN(IN TERMS OF MEDALS)
38 • SELECT * FROM
39 (
40 SELECT sport,
41 SUM(CASE WHEN sex= "F" AND medal <> "NA" THEN 1 ELSE 0 END) AS medals_by_female,
42 SUM(CASE WHEN sex= "M" AND medal <> "NA" THEN 1 ELSE 0 END) AS medals_by_male
43 FROM athlete_events
44 GROUP BY 1
45 ) AA
46 WHERE medals_by_female>medals_by_male
47 -- UNFORTUNATELY THESE THREE GAMES ARE SPEICALLY FOR FEMALE.THERE IS NO SPORT WHERE FEMALE
48 -- PERFORMED BETTER THAN MALE TILL DATE.
```

Result Grid Filter Rows: Export: Wrap Cell Content:

sport	medals_by_female	medals_by_male
Softball	179	0
Synchronized Swimming	214	0
Rhythmic Gymnastics	132	0

Result Grid

Form Editor