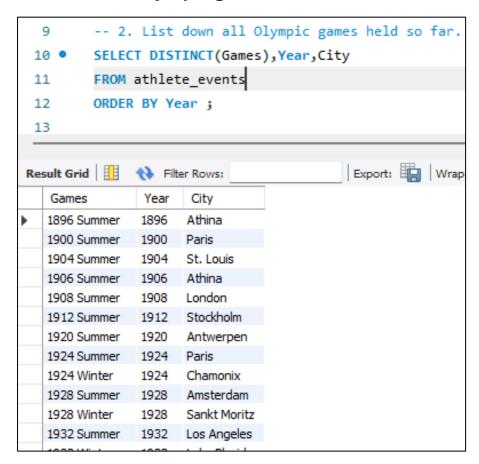
Olympic Game Case Study Using MySQL

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

1. How many Olympic games have been held?



2. List down all Olympic games held so far.



3. Mention the total number of nations that participated in each Olympic game.

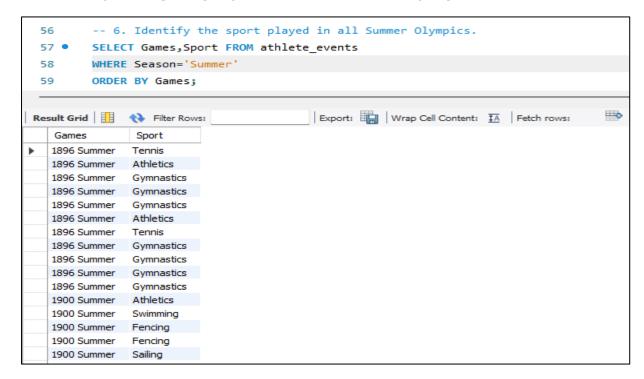
```
-- 3. Mention the total number of nations that participated in each Olympic game.
15 •
        SELECT Games, COUNT (DISTINCT region) AS 'Total_Participated_Regions'
        FROM athlete events t1
16
        JOIN noc regions t2
17
        ON t1.NOC=t2.NOC
18
        GROUP BY Games
19
        ORDER BY Games;
Result Grid 🔢 🚷 Filter Rows:
                                          Export: Wrap Cell Content: IA
   Games
               Total_Participated_Regions
  1896 Summer
  1900 Summer 11
  1904 Summer
  1906 Summer 14
  1908 Summer
  1912 Summer 21
  1920 Summer 22
```

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

```
22
        -- 4. Which year saw the highest and lowest number of countries participating in the Olympics?
23
24
       -- Using Set Operation Function
25 • ○ (SELECT Games, COUNT(DISTINCT region) AS 'Total_Participated_Regions'
       FROM athlete_events t1
26
27
       JOIN noc regions t2 ON t1.NOC=t2.NOC
       GROUP BY Games ORDER BY Games ASC LIMIT 1)
28
       UNION
29
    30
       FROM athlete_events t1
31
       JOIN noc_regions t2 ON t1.NOC=t2.NOC
32
       GROUP BY Games ORDER BY Games DESC LIMIT 1);
33
34
35
       -- Using Window Function
36 • ⊖ WITH ParticipationCounts AS (
       SELECT Games, COUNT(DISTINCT region) AS Total_Participated_Regions,
37
       RANK() OVER (ORDER BY COUNT(DISTINCT region) DESC) AS Participation_Rank_Desc,
38
       RANK() OVER (ORDER BY COUNT(DISTINCT region) ASC) AS Participation_Rank_Asc
39
       FROM athlete_events t1
40
41
       JOIN noc_regions t2 ON t1.NOC = t2.NOC
42
       GROUP BY Games)
43
       SELECT Games, Total Participated Regions
44
       FROM ParticipationCounts
       WHERE Participation_Rank_Desc = 1 OR Participation_Rank_Asc = 1;
45
46
                                  Export: Wrap Cell Content: IA
Result Grid Filter Rows:
             Total Participated Regions
  Games
  1896 Summer
 2016 Summer 152
```

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

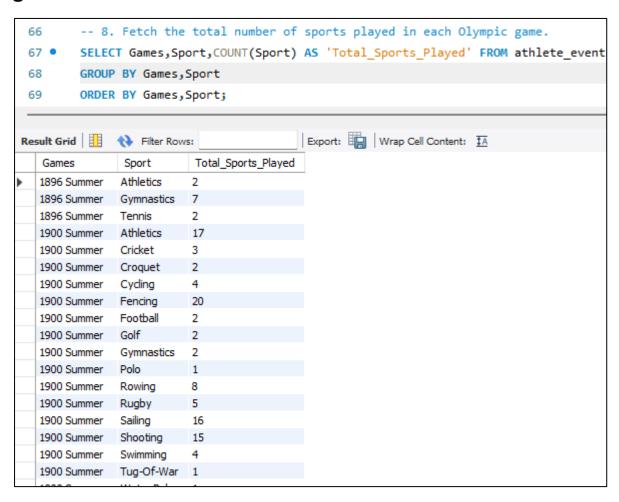
6. Identify the sport played in all Summer Olympics.



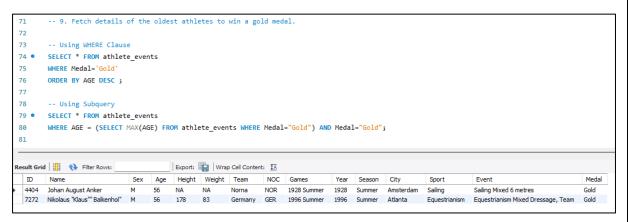
7. Which sports were played only once in the Olympics?



8. Fetch the total number of sports played in each Olympic game.

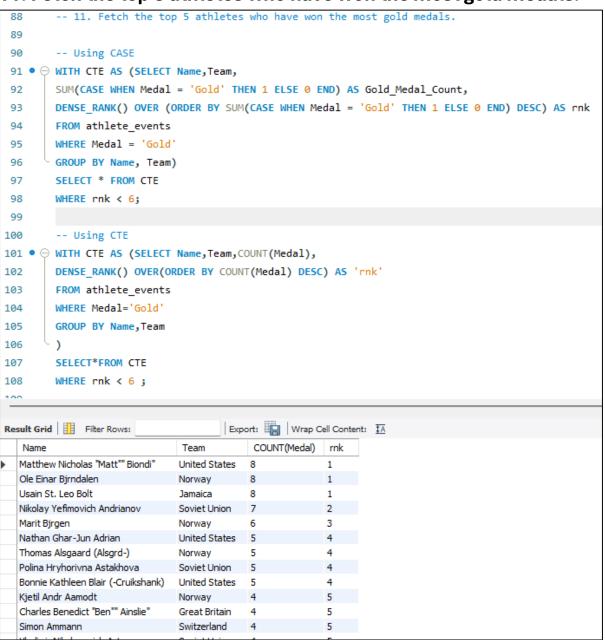


9. Fetch details of the oldest athletes to win a gold medal.

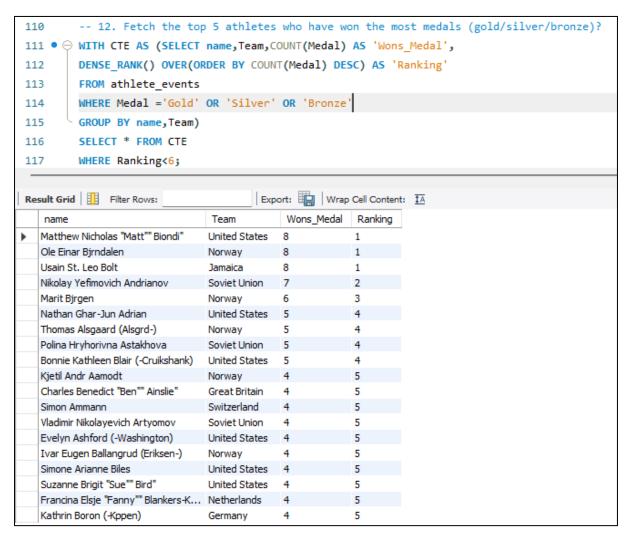


10. Find the ratio of male and female athletes participating in all Olympic games.

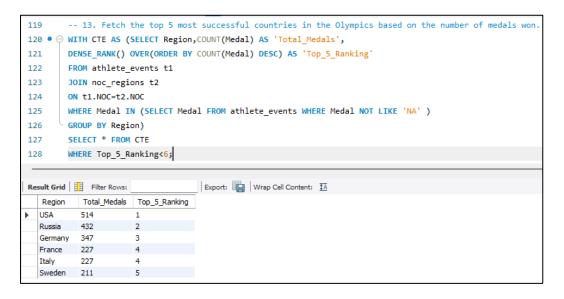
11. Fetch the top 5 athletes who have won the most gold medals.



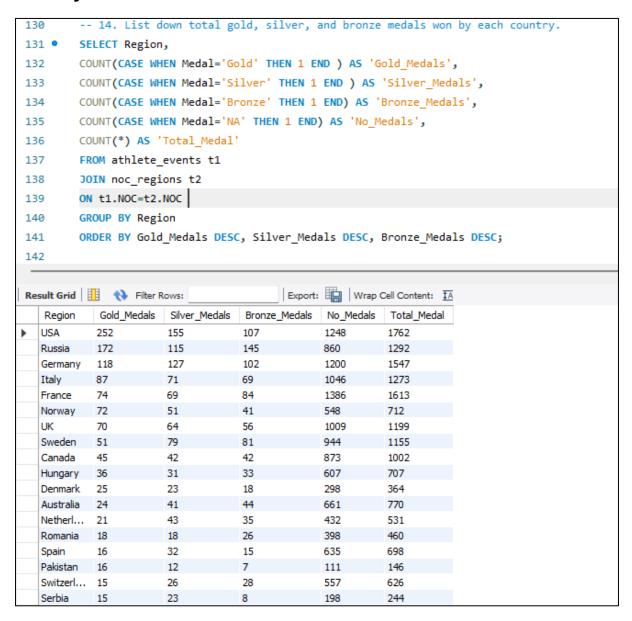
12. Fetch the top 5 athletes who have won the most medals (gold/silver/bronze).



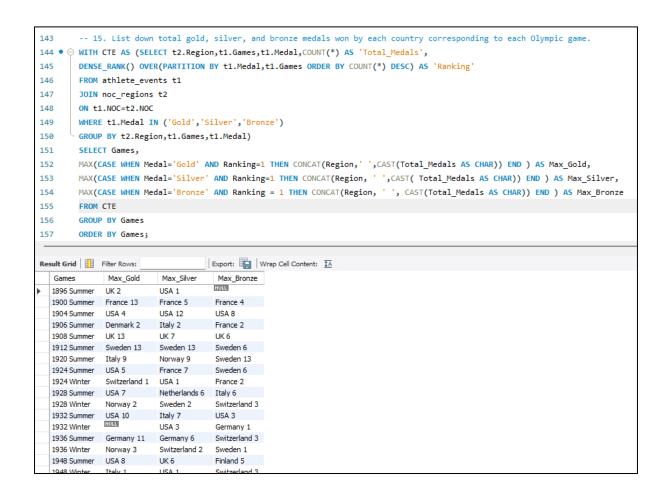
13. Fetch the top 5 most successful countries in the Olympics based on the number of medals won.



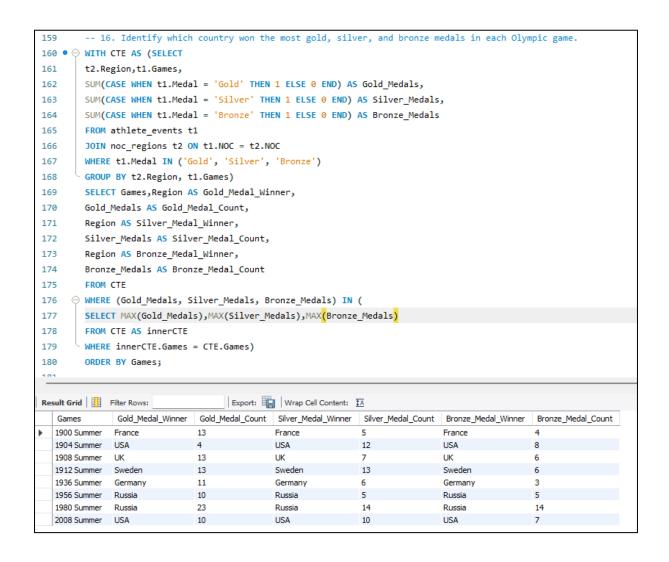
14. List down total gold, silver, and bronze medals won by each country.



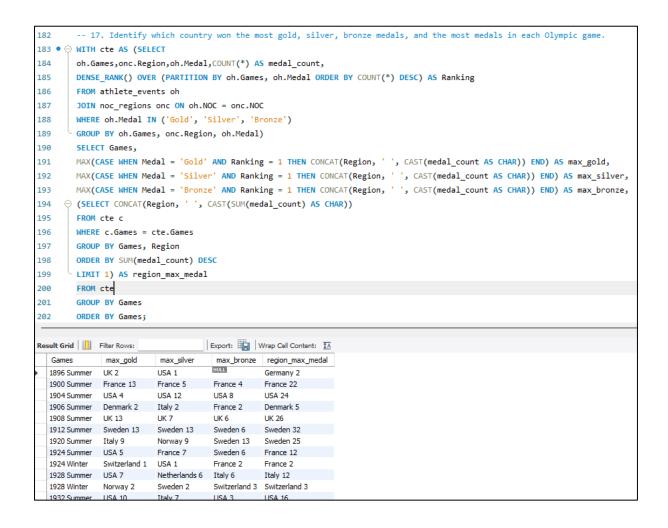
15. List down total gold, silver, and bronze medals won by each country corresponding to each Olympic game.



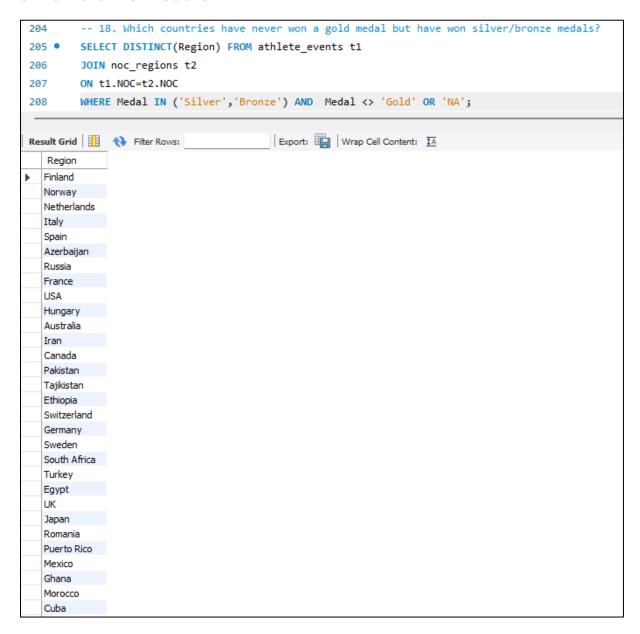
16. Identify which country won the most gold, silver, and bronze medals in each Olympic game.



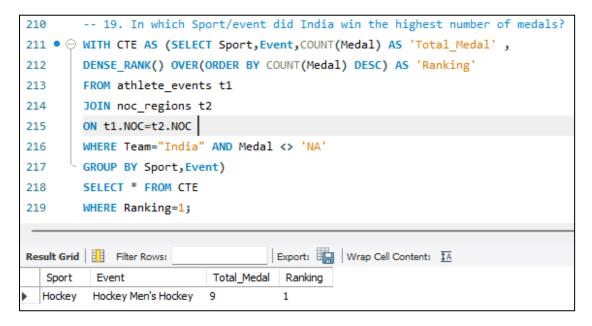
17. Identify which country won the most gold, silver, bronze medals, and the most medals in each Olympic game.



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



19. In which Sport/event did India win the highest number of medals?



20. Break down all Olympic games where India won a medal for Hockey and the number of medals in each Olympic game.

