

1. How many olympics games have been held?

```
select count(distinct(games)) as total_olympic_games
from olympics_history
```

2. List down all Olympics games held so far.

```
select distinct(year), season, city
from olympics_history
order by year
```

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

```
select games, count(distinct(region)) as total_countries
from olympics_history oh
join noc_regions nr on nr.noc = oh.noc
group by games
order by games
```

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

```
with all_countries as
    (select games, count(distinct(nr.region)) as total_countries
    from olympics_history oh
    join noc_regions nr ON nr.noc=oh.noc
    group by games)
select distinct
    concat(first_value(games) over(order by total_countries) , ' - ',
        first_value(total_countries) over(order by total_countries)) as
    Lowest_Countries,
```

```

concat(first_value(games) over(order by total_countries desc) , ' - ',
       first_value(total_countries) over(order by total_countries desc))
as Highest_Countries
from all_countries
order by 1;

```

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

```

select region, count(distinct(games)) as total_participated_games
from olympics_history oh
join noc_regions nr on nr.noc = oh.noc
group by region
having count(distinct(games)) = (select count(distinct(games))
                                from olympics_history)

```

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

```

select sport, count(distinct(games)) as total_olympics
from olympics_history
where season = 'Summer'
group by sport
having count(distinct(games)) = (select count(distinct(games))
                                from olympics_history where season = 'Summer')

```

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

```

select sport, count(distinct(games)) as total_participated_games
from olympics_history
group by sport
having count(distinct(games)) = 1

```

8. Fetch the total no of sports played in each olympic games.

```
select games, count(distinct(sport)) as total_sports
from olympics_history
group by games
order by 1
```

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

with temp as

```
(select name, sex, cast(case when age = 'NA' then '0' else age
end as int) as age, team, games, city, sport, event, medal
from olympics_history),
```

ranking as

```
(select *, rank() over(order by age desc) as rnk
from temp
where medal='Gold')
```

select *

from ranking

where rnk = 1;

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

with t1 as

```
(select sex, count(*) as cnt, row_number() over(order by sex)
as rn
```

```
from olympics_history
```

```
group by sex),
```

min_cnt as

```
(select cnt from t1 where rn = 1),
```

```

max_cnt as
(select cnt from t1 where rn = 2)
select concat('1:', round(max_cnt.cnt::decimal/min_cnt.cnt, 2)) as
ratio
from min_cnt, max_cnt;

```

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

```

select name, team, count(medal) as total_gold_medal
from olympics_history
where medal = 'Gold'
group by name, team
order by total_gold_medal desc
limit 5

```

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

```

select name, team, count(medal) as total_medal
from olympics_history
where medal in ('Gold','Silver','Bronze')
group by name, team
order by total_medal desc
limit 5

```

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

```

select region, count(medal) as total_medal
from olympics_history oh
join noc_regions as nr on nr.noc = oh.noc

```

where medal in ('Gold','Silver','Bronze')

group by region

order by total_medal desc

limit 5

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

select team, sport, count(medal) as total_medal

from olympics_history

where team = 'India' and medal in ('Gold','Silver','Bronze')

group by sport, team

order by total_medal desc

limit 1

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

select team, sport, games, count(medal) as total_medal

from olympics_history

where team = 'India' and sport = 'Hockey' and medal in ('Gold','Silver','Bronze')

group by sport, team, games

order by total_medal desc