**SQL Questions And Answers for Olympics dataset**

**1) How many olympics games have been held?**

select count(games) as games\_held from athlete\_events;

**2) List down all Olympics games held so far?**.

select distinct(games) as all\_olympic\_games from athlete\_events;

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

select games,count(distinct noc) as total\_no\_of\_nations from athlete\_events

group by games;

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

with highest\_country as(

select year,TEAM,count(Team)as high\_team

from athlete\_events

group by year,Team

order by high\_team DESC LIMIT 1),

Lowest\_country as(

select year,TEAM,count(Team)as lowest\_team

from athlete\_events

group by year,Team

order by lowest\_team LIMIT 1)

select \* from highest\_country

union

select \* from Lowest\_country;

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

select Team,count(distinct Games) from athlete\_events

group by Team

having count(distinct Games)=

(select count(distinct Games) from athlete\_events);

**6)Identify the sport which was played in all summer Olympics?**

select distinct(sport),season from athlete\_events

where season="summer"

order by sport;

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

select sport,count(sport) from athlete\_events

group by sport

having count(sport)=1;

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

select games,count(sport) as no\_of\_sports\_played from athlete\_events

group by games;

**9)Fetch details of the oldest athletes to win a gold medal?**

select \* from athlete\_events

where medal like "%gold"

order by age desc ;

**10) Find the Ratio of male and female athletes participated in all olympic games?**

with male as(

select Games,count(sex) as male\_count from athlete\_events

where sex='M'

GROUP BY Games),

female as(

select Games,count(sex) as female\_count from athlete\_events

where sex='F'

GROUP BY Games)

select \* from male

join female

on male.Games=female.games;

**11) Fetch the top 5 athletes who have won the most gold medals?**

select name,count(medal) as gold\_medal\_won from athlete\_events

where medal like "%gold"

group by name

order by gold\_medal\_won desc limit 5;

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

select name,count(medal) as all\_medals\_won from athlete\_events

where medal in ('gold','silver','bronze')

group by name

order by all\_medals\_won desc limit 5;

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

select noc,count(medal) as all\_medals\_won\_by\_noc from athlete\_events

where medal in ('gold','silver','bronze')

group by noc

order by all\_medals\_won\_by\_noc desc limit 5;

**14) List down total gold, silver and broze medals won by each country?**

with Gold as(

select Team,count(Medal) as gold

from athlete\_events

where Medal='Gold'

group by Team

order by gold desc),

Silver as(

select Team,count(Medal) as silver

from athlete\_events

where Medal='Silver'

group by Team

order by silver desc),

Bronze as(

select Team,count(Medal) as bronze

from athlete\_events

where Medal='Bronze'

group by Team

order by bronze desc)

select gold.Team,gold.Gold,Silver.silver,Bronze.bronze from Gold

join silver

on Gold.Team=Silver.Team

join bronze

on silver.Team=Bronze.Team

group by gold.Team;

OR

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create view olympic\_merge as

select athlete\_events.\*,noc\_regions.region from athlete\_events

join noc\_regions

ON noc\_regions.NOC = athlete\_events.NOC;

select region as Countrys,

count(case when Medal='Gold' then 1 end)as Total\_gold,

count(case when Medal='Silver' then 1 end)as Total\_Silver,

count(case when Medal='Bronze' then 1 end)as Total\_Bronze

FROM olympic\_merge

group by Countrys ;

**15) List down total gold, silver and broze medals won by each country corresponding to each olympic games?**

with Gold as(

select Games,Team,count(Medal) as gold

from athlete\_events

where Medal='Gold'

group by Games,Team

order by gold desc),

Silver as(

select Games,Team,count(Medal) as silver

from athlete\_events

where Medal='Silver'

group by Games,Team

order by silver desc),

Bronze as(

select Team,Games,count(Medal) as bronze

from athlete\_events

where Medal='Bronze'

group by Team,Games

order by bronze desc)

select gold.Games,gold.Team,gold.Gold,Silver.silver,Bronze.bronze from Gold

join silver

on Gold.Team=Silver.Team

join bronze

on silver.Team=Bronze.Team;

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**16) Identify which country won the most gold, most silver and most bronze medals in each olympic games?**

with Gold as(

select Games,Team,Max(Medal)as most\_gold,count(Medal) as gold

from athlete\_events

where Medal='Gold'

group by Games,Team

order by gold desc),

Silver as(

select Games,Team,max(Medal) as most\_silver,Count(Medal) as silver

from athlete\_events

where Medal='Silver'

group by Games,Team

order by silver desc),

Bronze as(

select Team,Games,max(Medal) as most\_bronze,count(Medal) as bronze

from athlete\_events

where Medal='Bronze'

group by Team,Games

order by bronze desc)

select gold.Games,gold.Team,gold.Gold,Silver.silver,Bronze.bronze from Gold

join silver

on Gold.Team=Silver.Team

join bronze

on silver.Team=Bronze.Team;

**17) Which countries have never won gold medal but have won silver/bronze medals?**

select region,Medal from olympic\_merge

where Medal in ('Silver','Bronze') and region not in

(select distinct (region) from olympic\_merge

where medal ='Gold');

**18)In which Sport/event, India has won highest medals?**

select sport,noc,count(medal) as max\_\_medal\_won\_india from athlete\_events

where noc="ind" and medal not in ("na")

group by sport

order by max\_\_medal\_won\_india desc limit 1

**19) Break down all olympic games where india won medal for Hockey and how many medals in each olympic games?**

select sport,games,team,count(medal) from athlete\_events

where team="india" and sport="hockey"

group by sport,games

order by count(medal);