SQL Olympic Project

Purpose:

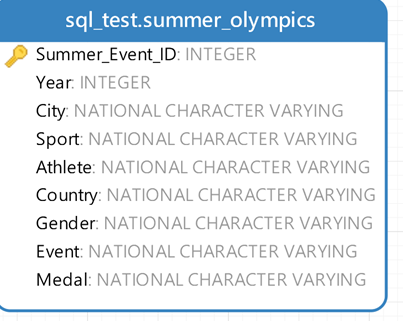
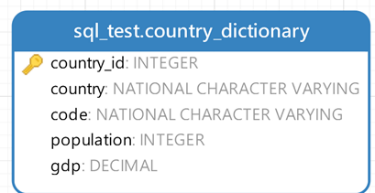
Practice my SQL skillset using the Olympic dataset. SQL skills are valuable to employers

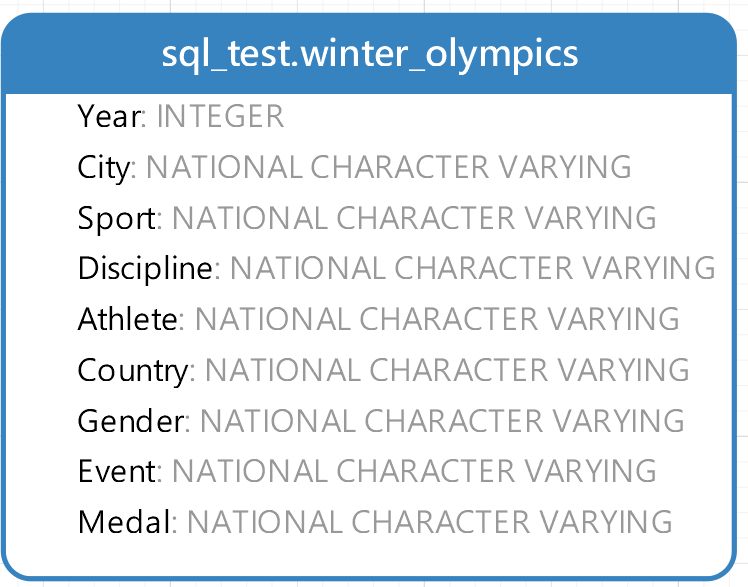
Overview:

Olympics are the one most exciting and entertaining events during the Summer and Winter. They originated in Greece and have been going on since 1896. It is wonderful to watch athletes from 200 countries worldwide show off their athletic abilities and skillset.

Dataset:

The dataset comprises of 120 years of both summer and winter Olympics from 1896 through 2012. The summer Olympics are through 2012 while the winter are through 2014. This dataset was downloaded from the Kaggle website. It consists of three tables which are the country dictionary, summer Olympics and winter Olympics.



Goal:

Determine how the Olympics have changed over time by answering the following questions:

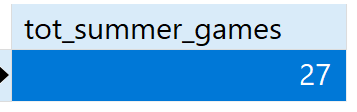
1. How many Summer Olympic games were there overall?

Summer Games

select count(\*) as tot\_games from (

select distinct Year

from summer\_olympics) as a



1. How many nations participated in each of the Summer olympics?

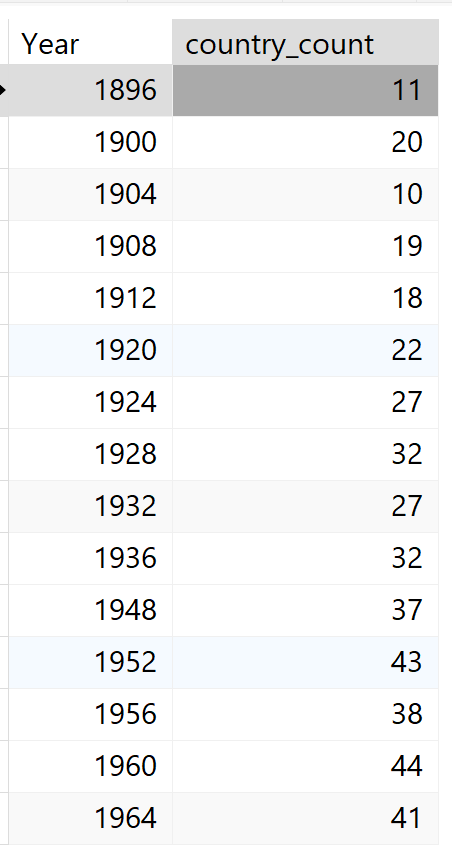
The query for getting number of nations in each of the Summer Olympics

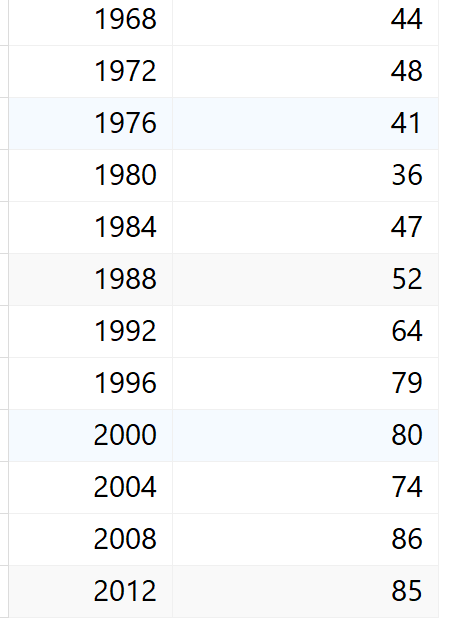
Select Year, count(distinct(country)) as country\_count

from summer\_olympics

group by Year

order by 1;





1. Which Country won the most medals breakdown overall?

Summer Olympics

Sorted by most medals by the gold medals

with gold as (

select Country, count(Medal) as gold\_medal\_cnt

from summer\_olympics where Medal = 'Gold'

group by Country ),

silver as (

select Country, count(Medal) as silver\_medal\_cnt from summer\_olympics

where Medal = 'Silver'

group by Country),

bronze as (

select Country, count(Medal) as bronze\_medal\_cnt from summer\_olympics

where Medal = 'Bronze'

group by Country)

select a.Country, a.gold\_medal\_cnt as gold\_count, b.silver\_medal\_cnt as silver\_cnt, c.bronze\_medal\_cnt as bronze\_cnt

from gold as a

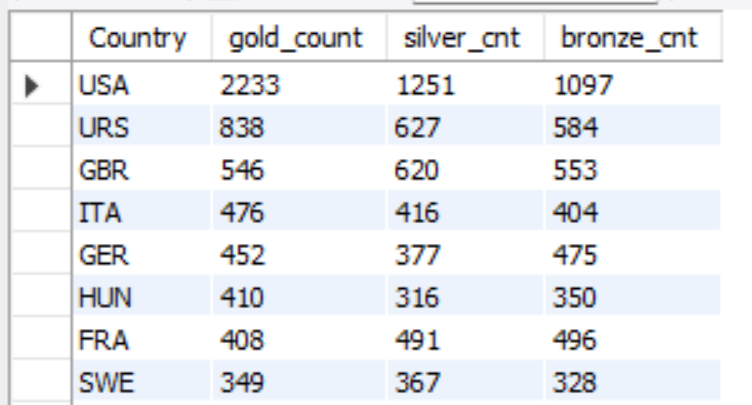
inner join silver as b

on a.Country = b.Country

join bronze as c

on a.Country = c.Country

order by 2 desc



1. What are the top four sports with the most male participants in the 2012 games? Female participants?

Determines highest male participants

select Sport, count(\*) as male\_pop\_sports

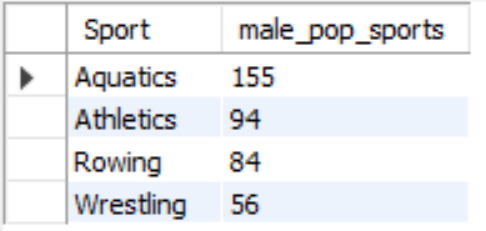
from summer\_olympics

where Gender = "Men" and Year = "2012"

group by Sport

order by 2 desc

limit 4;



Determines highest female participants

select Sport, count(\*) as female\_pop\_sports

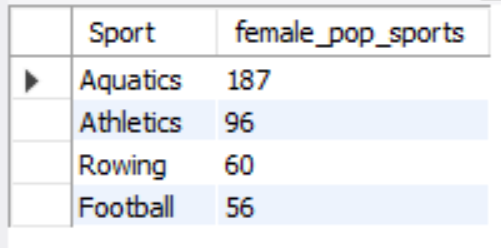
from summer\_olympics

where Gender = "Women" and Year = "2012"

group by Sport

order by 2 desc

limit 4;



1. What are the top 3 athletes with the most gold medals in the 2012 summer games?

select Year, Athlete, count(Medal) as gold\_medal\_count

from summer\_olympics

where Medal = "Gold" and Year = "2012"

group by Athlete

Order by 3 desc

limit 3;



1. In which summer games did India win the highest number of medals?

select Year, Country, MAX(total\_medal\_count) as max\_medal\_count

from (

select Year, Country, count(Medal) as total\_medal\_count

from summer\_olympics

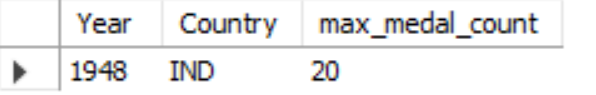
where Country = "Ind"

group by Year, Country

) as medal\_counts group by Year, Country

order by max\_medal\_count DESC

limit 1;



1. Sort by the number of golds won by India in the Summer games in descending order:

select Year, Country, count(Medal) as gold\_medal\_count

from summer\_olympics

where Country = "Ind" and Medal = "Gold"

Group by Year

order by gold\_medal\_count desc;



1. Determine the sports that India won the most medals in:

select distinct Sport, count(Medal) as tot\_medal\_cnt

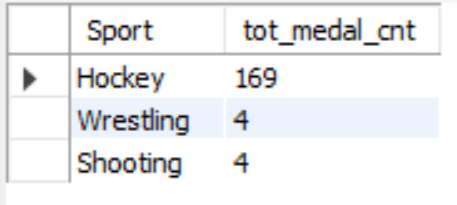
from summer\_olympics

where Country = 'Ind'

group by Sport

order by tot\_medal\_cnt desc

limit 3;



1. Determine the sports that India won the most gold medals in:

select distinct Sport, count(Medal) as tot\_gold\_cnt

from summer\_olympics

where Country = 'Ind' and Medal = "Gold"

group by Sport, Medal

order by tot\_gold\_cnt desc;

