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Challenge 1

Documentation

1. For this challenge, I used DBeaver to create the tables, write and execute the SQL queries. The data model consisted of 5 tables, where the data of each csv file is inserted in a table.

Tables are: Athletes, Counties, Country\_Stat, SummerGames and WinterGames.

1. SQL Query:

//Total **number** **of** athletes **in** summer games top three sports

**select** Sport , **count**(**DISTINCT** Athlete\_Id) **as** Total\_Athletes

**from** SummerGames sg

**group** **by** Sport

**order** **by** Total\_Athletes **DESC**

**limit** 3

Result:

Table

Description automatically generated

1. SQL Query:

//Unique number of events and athletes for every sport

select Sport, count(DISTINCT Event) as Unique\_Events, count(DISTINCT Athlete\_Id) as Unique\_Athletes

from (select \*

from SummerGames sg

UNION ALL

select \*

from WinterGames wg)

group by Sport

Result:

Table

Description automatically generated

1. SQL Query:

// Oldest Athlete by Regoin

select c.region , Max(Age)

from (select \*

from SummerGames sg

UNION ALL

select \*

from WinterGames wg) b

inner join Athletes a on b.Athlete\_Id=a.Id

inner join Countries c on c.id= b.country\_id

group by c.region

Result:

Table

Description automatically generated

1. SQL Query:

//**Unique** **number** **of** events **for** **every** sport order by descending order

select Sport, count(DISTINCT Event) as Unique\_Events

from (select \*

from SummerGames sg

UNION ALL

select \*

from WinterGames wg)

group by Sport

order by Unique\_Events DESC

Result:

Table

Description automatically generated

1. SQL Query:

//Total Number of bronze medals in summer games

SELECT COUNT(\*) as Bronze\_Medals

from SummerGames sg

where medal='Bronze'

Result:



SQL Query:

//Total Number of medals by country

Select Sum(Bronze\_Medals) as Bronze\_Medals\_Across\_Countries

from ( SELECT COUNT(\*) as Bronze\_Medals

from SummerGames sg

where medal='Bronze'

Group by Country\_Id)

Result:



1. Other Queries:

//Average age **of** female athletes

select ROUND(AVG(AGE)) as Female\_Average\_Age

from Athletes a

where Gender ='F'

//Number of Gold, Silver, Bronze medals for every country that has at least one medal of any kind

Select Country\_Id,sum (CASE WHEN Medal = 'Bronze' THEN 1 ELSE 0 END) as bronze,

sum (CASE WHEN Medal = 'Gold' THEN 1 ELSE 0 END) as Gold,

sum (CASE WHEN Medal = 'Silver' THEN 1 ELSE 0 END) as Silver

from SummerGames sg

group by Country\_Id

having gold <>0 or Silver <> 0 or Bronze <> 0

order by Gold desc