SQL PROJECT

For project we have to insert large amount of data into SQL tables. Where we generally use import option to insert the data. But this file has huge data in it. Hence we need to load file in SQL using Load in file query. Before using load in file query we need to create a table with call the column header present in data set.

Syntax of load in file:

load data infile 'C:\\ProgramData\\MySQL\\MySQL Server 8.2\\Uploads\\Athletes_Cleaned.csv' into table olympics
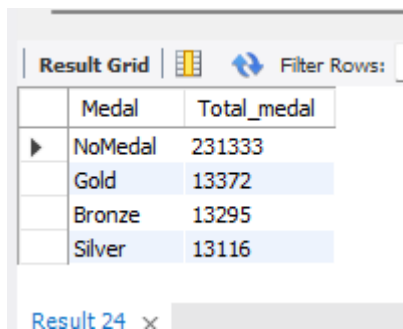
 fields terminated by','

enclosed by ' " '

 Lines terminated by '\r\n'

 ignore 1 rows;

with this syntax and file location we can add huge data in MYSQL.

1. Show how many medal counts present for entire data

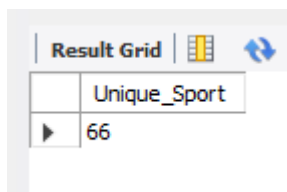select Medal, count(medal)as Total_medal from olympics

group by medal;

Medal	Total_medal
NoMedal	231333
Gold	13372
Bronze	13295
Silver	13116

Result 24 ✕

2. Show count of unique sports present in Olympics

select count(distinct sport) as Unique_Sport from olympics;

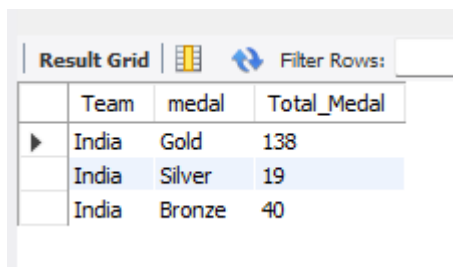| Unique_Sport |
|---|
| 66 |

3. Show how many different medals won by team India

select Team, medal, count(Medal) as Total_Medal from olympics

where team = 'India' and Medal <>'Nomedal'

group by medal;

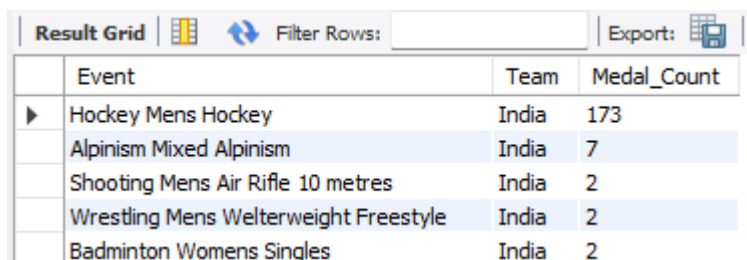| Team	medal	Total_Medal
India	Gold	138
India	Silver	19
India	Bronze	40

4. Show event wise medals won by India show from highest to lowest medals won in order

select Event, Team, count(Medal) as Medal_Count from olympics

where team = 'India' and Medal <> 'NoMedal'

group by event

order by Medal_Count desc;

Event	Team	Medal_Count
Hockey Mens Hockey	India	173
Alpinism Mixed Alpinism	India	7
Shooting Mens Air Rifle 10 metres	India	2
Wrestling Mens Welterweight Freestyle	India	2
Badminton Womens Singles	India	2

5. Show event wise medals won by India in order of year

select Event, Team, count(Medal) as Medal_Count, Year from olympics

where team = 'India' and medal <> 'NoMedal'

group by event, year

order by year;

	Event	Team	Medal_Count	Year
▶	Athletics Mens 200 metres	India	1	1900
	Athletics Mens 200 metres Hurdles	India	1	1900
	Alpinism Mixed Alpinism	India	7	1924
	Hockey Mens Hockey	India	14	1928
	Hockey Mens Hockey	India	15	1932

6. show country who won maximum medals.

select Team, count(medal) As Max_Medal from olympics

where Medal <> 'NoMedal'

Group by Team

order by Max_Medal desc

limit 1;

	Team	Max_Medal
▶	United States	5219

7.show top 10 countries who won gold

select Team, count(medal) as Max_Gold from olympics

where medal ='gold'

group by Team

order by Max_Gold desc

limit 10;

	Team	Max_Gold
▶	United States	2474
	Sweden	451
	Soviet Union	1058
	Italy	535
	Hungary	432

Result 33 ✕

8. show in which year did United states won most gold medal
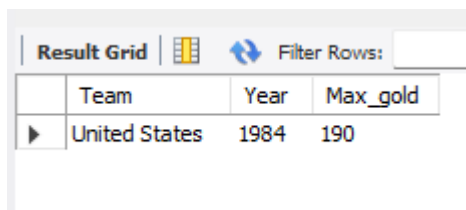
select Team, Year,count(medal) as Max_gold from olympics

where team ='United States' and medal ='gold'

group by year

order by Max_Gold desc

limit 1;

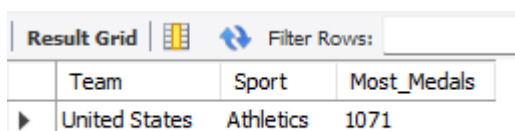| Team	Year	Max_gold
United States	1984	190

9. In which sports United States has most medals.

select Team, Sport, Count(Medal) as Most_Medals from olympics

where team ='united States' and medal <>'nomedal'

group by sport

order by Most_Medals desc

limit 1;

Team	Sport	Most_Medals
United States	Athletics	1071

10. Find top three players who won most medals along with their sports and country

select Name, Team, Sport,count(medal) as Most_Medal from olympics

where medal<>'Nomedal'

group by Name, Team, Sport

order by Most_Medal desc

limit 3;

	Name	Team	Sport	Most_Medal
▶	Michael Fred Phelps II	United States	Swimming	28
	Larysa Semenivna Latynina Diriy	Soviet Union	Gymnastics	18
	Nikolay Yefimovich Andrianov	Soviet Union	Gymnastics	15

11. Find player with most gold medals in cycling along with his country.

select Name, Team, Sport,count(medal) as Most_Gold_Medals from olympics

where sport ='Cycling' and medal ='gold'

group by Name, Team, Sport

order by Most_Gold_Medals desc;

	Name	Team	Sport	Most_Gold_Medals
▶	Christopher Andrew Chris Hoy	Great Britain	Cycling	6
	Jason Francis Kenny	Great Britain	Cycling	6
	Bradley Marc Wiggins	Great Britain	Cycling	5
	Marcus Latimer Hurley	United States	Cycling	4
	Laura Rebecca Trott Kenny	Great Britain	Cycling	4

Result 38 ✕

12.Find player with most medals (Gold+Silver+Bronze) in Basketball also show his country.

select Name, Team, Sport, count(medal) as Most_Medal from olympics

where sport = 'Basketball' and medal <> 'nomedal'

group by Name, Team, Sport

order by Most_Medal desc;

	Name	Team	Sport	Most_Medal
▶	Teresa Edwards	United States	Basketball	5
	Carmelo Kyan Anthony	United States	Basketball	4
	Sergey Aleksandrovich Belov	Soviet Union	Basketball	4
	Suzanne Brigit Sue Bird	United States	Basketball	4
	Tamika Devonne Catchings	United States	Basketball	4

Result 40 ✕

13. Find out the count of different medals of the top basketball player Teresa Edwards

select Name, Sport, medal, count(medal) as Most_Individual_Medal from olympics

where name = 'Teresa Edwards' and Medal <> 'NoMedal'

Group by Name, Sport, medal

Order by medal desc;

Name	Sport	medal	Most_Individual_Medal
Teresa Edwards	Basketball	Gold	4
Teresa Edwards	Basketball	Bronze	1

14. Find out medals won by male,female each year , Export this data and plot graph in excel

select Sex, year, Count(Medal) Total_Count_Medal from Olympics

where medal <> 'Nomedal'

group by Sex, Year

order by year ;

Sex	year	Total_Count_Medal
M	1896	143
M	1900	591
F	1900	13
M	1904	476
F	1904	10