

## SQL Project Olympics

This project involves the analysis of the Olympics dataset using MYSQL.

### Step1. Create Database

```
create database SQLProject;  
use SQLProject;
```

### Step2. Create Table

```
create table olympics  
(  
ID int,  
Name varchar(300),  
Sex char(10),  
Age int,  
Height int,  
Weight int,  
Team varchar(200),  
NOC varchar(200),  
Games varchar(200),  
Year int,  
Season varchar(100),  
City varchar(100),  
Sport varchar(200),  
Event varchar(250),  
Medal varchar(50)  
);
```

### Step3. Load Data

```
load data infile 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Athletes_Cleaned.csv'
into table olympics
fields terminated by ','
enclosed by '"'
lines terminated by '\r\n'
ignore 1 rows;
```

```
-- SQL PROJECT
```

```
-- 1. Show how many medal counts present for entire data
```

```
select count(medal) as medalcount, Medal
```

```
from olympics
```

```
where Medal <> "NoMedal"
```

```
group by Medal;
```

	medalcount	Medal
▶	13372	Gold
	13295	Bronze
	13116	Silver

```
-- 2. Show count of unique sports present in Olympics
```

```
select Sport, count(distinct(sport))
```

```
from olympics
```

```
group by Sport;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Sport	count(distinct(sport))			
▶	Aeronautics	1			
	Alpine Skiing	1			
	Alpinism	1			
	Archery	1			
	Art Competitions	1			
	Athletics	1			
	Badminton	1			
	Baseball	1			
	Basketball	1			
	Basque Pelota	1			

-- 3. Show how many different medals won by team India

select count(medal) as medalcount, Medal,Team

from olympics

where Medal<>"NoMedal" and Team="India"

group by Medal,Team;

Result Grid				Filter Rows:	Export:	Wrap Cell Content:
	medalcount	Medal	Team			
▶	138	Gold	India			
	19	Silver	India			
	40	Bronze	India			

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

select Event,count(medal) as HLMedal, Medal,Team

from olympics

where Medal<>"NoMedal" and Team="India"

group by Event,Medal,Team

order by HLMedal desc;

Result Grid				
	Filter Rows:		Export:	Wrap Cell Content:
Event	HLMedal	Medal	Team	
Hockey Mens Hockey	130	Gold	India	
Hockey Mens Hockey	30	Bronze	India	
Hockey Mens Hockey	13	Silver	India	
Alpinism Mixed Alpinism	7	Gold	India	
Shooting Mens Air Rifle 10 metres	1	Gold	India	
Wrestling Mens Lightweight Freestyle	1	Bronze	India	
Wrestling Mens Bantamweight Freestyle	1	Bronze	India	
Boxing Womens Flyweight	1	Bronze	India	
Wrestling Mens Welterweight Freestyle	1	Bronze	India	
Wrestling Mens Welterweight Freestyle	1	Silver	India	

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

select Event,count(medal) as YearMedal,Medal,Team,Year

from olympics

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

group by Event,Medal,Team,Year

order by Year asc;

Result Grid					
	Filter Rows:		Export:	Wrap Cell Content:	
Event	YearMedal	Medal	Team	Year	
Athletics Mens 200 metres	1	Silver	India	1900	
Athletics Mens 200 metres Hurdles	1	Silver	India	1900	
Alpinism Mixed Alpinism	7	Gold	India	1924	
Hockey Mens Hockey	14	Gold	India	1928	
Hockey Mens Hockey	15	Gold	India	1932	
Hockey Mens Hockey	19	Gold	India	1936	
Hockey Mens Hockey	20	Gold	India	1948	
Hockey Mens Hockey	14	Gold	India	1952	
Wrestling Mens Bantamweight Freestyle	1	Bronze	India	1952	
Hockey Mens Hockey	17	Gold	India	1956	

-- 6. show country who won maximum medals.

select Team,count(medal) as medalcount,max(medal) as maxmedal

from olympics

where medal <>"NoMedal"

group by Team,Medal

order by medalcount desc;

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Team	medalcount	maxmedal	
United States	2474	Gold	
United States	1512	Silver	
United States	1233	Bronze	
Soviet Union	1058	Gold	
Soviet Union	716	Silver	
Germany	679	Gold	
Germany	678	Bronze	
Soviet Union	677	Bronze	
Germany	627	Silver	
Great Britain	582	Silver	

-- 7.show top 10 countries who won gold

select Team,count(medal) as GoldMedal,Medal

from olympics

where Medal="Gold"

group by Team,Medal

order by GoldMedal desc

limit 10;

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch
Team	GoldMedal	Medal		
United States	2474	Gold		
Soviet Union	1058	Gold		
Germany	679	Gold		
Italy	535	Gold		
Great Britain	519	Gold		
France	455	Gold		
Sweden	451	Gold		
Hungary	432	Gold		
Canada	422	Gold		
East Germany	369	Gold		

-- 8. show in which year did United states won most gold medal

```
select Year,count(medal) as medalcount,Medal,Team
```

```
from olympics
```

```
where Team="United states" and Medal="Gold"
```

```
group by Year,Medal,Team
```

```
order by medalcount desc;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Year	medalcount	Medal	Team
1984	190	Gold	United States
1996	157	Gold	United States
2012	139	Gold	United States
2016	137	Gold	United States
2000	128	Gold	United States
2008	121	Gold	United States
2004	115	Gold	United States
1920	111	Gold	United States
1968	100	Gold	United States
1960	97	Gold	United States

-- 9. In which sports United States has most medals.

```
select Sport,count(medal) as medalcount,Medal,Team
```

```
from olympics
```

```
where Team="United States" and Medal<>"NoMedal"
```

```
group by Sport,Medal,Team
```

```
order by medalcount desc;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Sport	medalcount	Medal	Team
Swimming	645	Gold	United States
Athletics	537	Gold	United States
Athletics	313	Silver	United States
Basketball	281	Gold	United States
Swimming	250	Silver	United States
Athletics	221	Bronze	United States
Ice Hockey	189	Silver	United States
Swimming	171	Bronze	United States
Rowing	160	Gold	United States
Shooting	117	Gold	United States

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

```
select Name,count(medal) as countmedal,Medal,Sport,Team
```

```
from olympics
```

```
where Medal<>"NoMedal"
```

```
group by Name,Medal,Sport,Team
```

```
order by countmedal desc
```

```
limit 3;
```

Result Grid					
Filter Rows:		Export:		Wrap Cell Content:	
	Name	countmedal	Medal	Sport	Team
▶	Michael Fred Phelps II	23	Gold	Swimming	United States
	Raymond Clarence Ray Ewry	10	Gold	Athletics	United States
	Frederick Carlton Carl Lewis	9	Gold	Athletics	United States

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

```
select Name,count(medal) as countmedal,Medal,Sport,Team
```

```
from olympics
```

```
where Sport="cycling" and Medal="gold"
```

```
group by Name,Medal,Sport,Team
```

```
order by countmedal desc
```

```
limit 1;
```

Result Grid					
Filter Rows:		Export:		Wrap Cell Content:	
	Name	countmedal	Medal	Sport	Team
▶	Christopher Andrew Chris Hoy	6	Gold	Cycling	Great Britain

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

```
select Name,count(medal) as countmedal,Medal,Sport,Team
```

```
from olympics
```

```
where Medal<>"NoMedal" and Sport="Basketball"
```

```
group by name,Medal,Sport,Team
```

order by countmedal desc;

Result Grid    Filter Rows: <input type="text"/>   Export:  Wrap Cell Content: 					
	Name	countmedal	Medal	Sport	Team
▶	Suzanne Brigit Sue Bird	4	Gold	Basketball	United States
	Tamika Devonne Catchings	4	Gold	Basketball	United States
	Teresa Edwards	4	Gold	Basketball	United States
	Lisa Deshawn Leslie Lockwood	4	Gold	Basketball	United States
	Diana Lurena Taurasi	4	Gold	Basketball	United States
	Carmelo Kyan Anthony	3	Gold	Basketball	United States
	Seimone Delicia Augustus	3	Gold	Basketball	United States
	Sergey Aleksandrovich Belov	3	Bronze	Basketball	Soviet Union
	Gintaras Einikis	3	Bronze	Basketball	Lithuania
	Sylvia Shaqueria Fowles	3	Gold	Basketball	United States

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

select Name,count(medal) as countmedal,Medal,Sport,Team

from olympics

where Sport="basketball" and Name="Teresa Edwards"

group by Name,Medal,Sport,Team;

Result Grid    Filter Rows: <input type="text"/>   Export:  Wrap Cell Content: 					
	Name	countmedal	Medal	Sport	Team
▶	Teresa Edwards	4	Gold	Basketball	United States
	Teresa Edwards	1	Bronze	Basketball	United States



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

select count(medal) as countmedal,Medal,Sex,Year

from olympics

where Medal<>"Nomedal"

group by Medal,Sex,Year

order by Sex,Year asc,Medal;

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
countmedal	Medal	Sex	Year
5	Bronze	F	1900
4	Gold	F	1900
4	Silver	F	1900
2	Bronze	F	1904
6	Gold	F	1904
2	Silver	F	1904
2	Bronze	F	1906
2	Gold	F	1906
2	Silver	F	1906
5	Bronze	F	1908

