

Olympics Data Analysis

```
create database sqlprjt ;  
use sqlprjt;
```

Create table

```
create table olympic3  
(  
ID int,  
Name varchar(500),  
Sex varchar(10),  
Age int,  
Height int,  
Weight int,  
Team varchar(350),  
NOC varchar(100),  
Games varchar(500),  
Year int,  
Season varchar(400),  
City varchar(300),  
Sport varchar(500),  
Event varchar(400),  
Medal varchar(200));
```

```
select * from olympic3;
```

```
show variables like "secure_file_priv";
```



Result 7 x

Variable_name	Value
secure_file_priv	C:\ProgramData\MySQL\MySQL Server 9.0\Uplo...

```
load data infile "C:/ProgramData/MySQL/MySQL Server  
9.0/Uploads/Athletes_Transformed.csv"
```

```
into table olympic3
```

```
fields terminated by ','
```

```
enclosed by '"'
```

```
lines terminated by '\r\n'
```

```
ignore 1 rows;
```

Display the table

```
select * from olympics;
```



Result Grid

ID	Name	Sex	Age	Height	Weight	Team	NOC	Games	Year	Season	City	Sport	Event	Medal
1	A Dijiang	M	24	180	80	China	CHN	1992 Summer	1992	Summer	Barcelona	Basketball	Basketball Mens Basketball	NoMe
2	A Lamusi	M	23	170	60	China	CHN	2012 Summer	2012	Summer	London	Judo	Judo Mens ExtraLightweight	NoMe
3	Gunnar Nielsen Aaby	M	24	175	70	Denmark	DEN	1920 Summer	1920	Summer	Antwerpen	Football	Football Mens Football	NoMe
4	Edgar Lindenau Aabye	M	34	175	70	Denmark/Sweden	DEN	1900 Summer	1900	Summer	Paris	Tug-Of-War	TugOfWar Mens TugOfWar	Gold
5	Christine Jacoba Aaftink	F	21	185	82	Netherlands	NED	1988 Winter	1988	Winter	Calgary	Speed Skating	Speed Skating Womens 500 metres	NoMe
5	Christine Jacoba Aaftink	F	21	185	82	Netherlands	NED	1988 Winter	1988	Winter	Calgary	Speed Skating	Speed Skating Womens 1000 metres	NoMe
5	Christine Jacoba Aaftink	F	25	185	82	Netherlands	NED	1992 Winter	1992	Winter	Albertville	Speed Skating	Speed Skating Womens 500 metres	NoMe
5	Christine Jacoba Aaftink	F	25	185	82	Netherlands	NED	1992 Winter	1992	Winter	Albertville	Speed Skating	Speed Skating Womens 1000 metres	NoMe
5	Christine Jacoba Aaftink	F	27	185	82	Netherlands	NED	1994 Winter	1994	Winter	Lillehammer	Speed Skating	Speed Skating Womens 500 metres	NoMe

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

```
select count(medal) as medalcount from olympics
```

```
where medal is not null limit 5;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
medalcount			
813348			

Result 9 x

2. Show count of unique sports present in Olympics

```
select count( distinct sport) as uniquesportscount
from olympics;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
uniquesportscount			
66			

Result 10 x

3. Show how many different medals won by team India

```
select count(distinct medal)as dfferent_medals_count
from olympics
where team='india';
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
dfferent_medals_count			
4			

Result 11 x

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

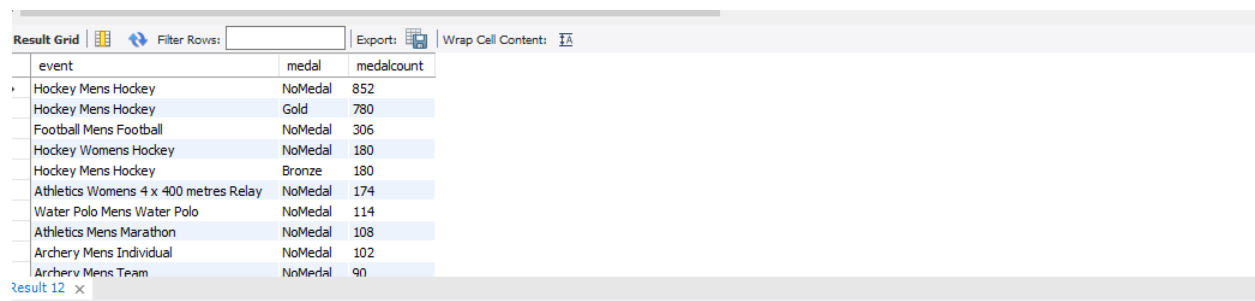
```
select event,medal,count(*) as medalcount
```

```
from olympics
```

```
where team='india'
```

```
group by event,medal
```

```
order by medalcount desc;
```

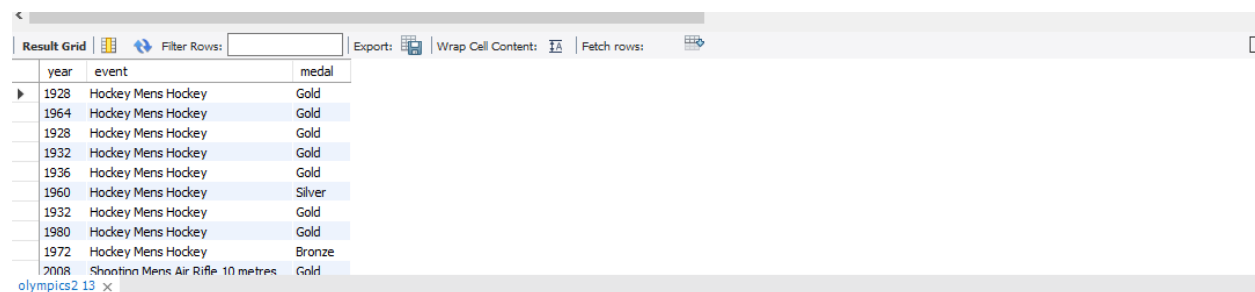


event	medal	medalcount
Hockey Mens Hockey	NoMedal	852
Hockey Mens Hockey	Gold	780
Football Mens Football	NoMedal	306
Hockey Womens Hockey	NoMedal	180
Hockey Mens Hockey	Bronze	180
Athletics Womens 4 x 400 metres Relay	NoMedal	174
Water Polo Mens Water Polo	NoMedal	114
Athletics Mens Marathon	NoMedal	108
Archery Mens Individual	NoMedal	102
Archery Mens Team	NoMedal	90

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

```
select year,event,medal from olympics
```

```
where team='india'and medal in ('gold','silver','bronze');
```



year	event	medal
1928	Hockey Mens Hockey	Gold
1964	Hockey Mens Hockey	Gold
1928	Hockey Mens Hockey	Gold
1932	Hockey Mens Hockey	Gold
1936	Hockey Mens Hockey	Gold
1960	Hockey Mens Hockey	Silver
1932	Hockey Mens Hockey	Gold
1980	Hockey Mens Hockey	Gold
1972	Hockey Mens Hockey	Bronze
2008	Shooting Mens Air Rifle 10 metres	Gold

6. show country who won maximum medals.

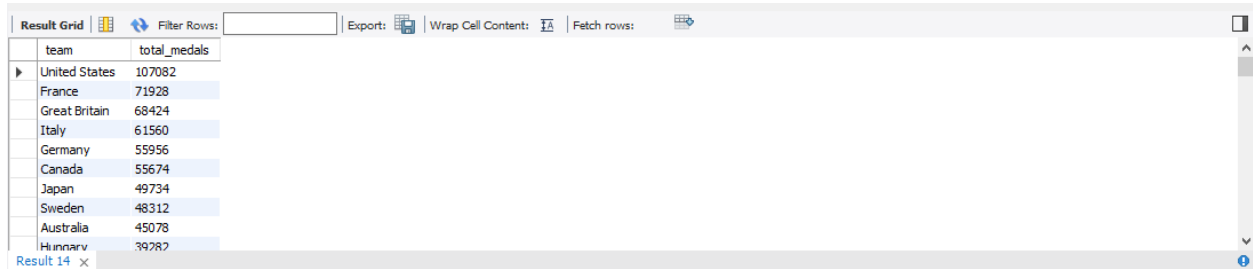
```
select team,count(medal)as total_medals
```

```
from olympics
```

```
where medal is not null
```

group by team

order by total_medals desc;



The screenshot shows a database query result grid with the following data:

team	total_medals
United States	107082
France	71928
Great Britain	68424
Italy	61560
Germany	55956
Canada	55674
Japan	49734
Sweden	48312
Australia	45078
Hungary	39282

7. show top 10 countries who won gold

select team, count(medal) as gold_medals

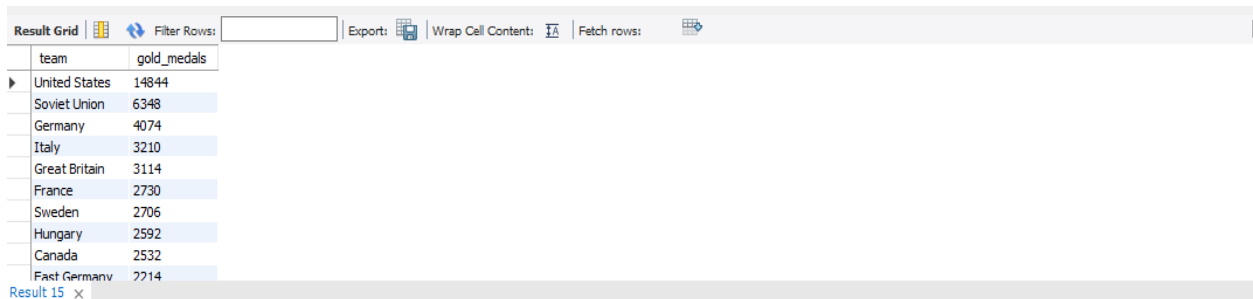
from olympics

where medal='gold'

group by team

order by gold_medals desc

limit 10;



The screenshot shows a database query result grid with the following data:

team	gold_medals
United States	14844
Soviet Union	6348
Germany	4074
Italy	3210
Great Britain	3114
France	2730
Sweden	2706
Hungary	2592
Canada	2532
East Germany	2214

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

select year, count(medal) as gold_medals

from olympics

where team='united states' and medal='gold'

group by year

order by gold_medals desc

limit 1;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
year	gold_medals				
1984	1140				

Result 16 ×

9. In which sports United States has most medals.

select sport, count(medal) AS TOTAL_MEDAL from

olympics

Where team ='united states'

Group by sport

Order by Total _medal desc

limit 1;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
sport	TOTAL_MEDAL				
Athletics	19212				

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

select name,sport,TEAM ,COUNT(medal) AS TOTAL_MEDALS from olympics

where medal is not null

group by name,sport,team

order by TOTAL_MEDALS desc

limit 3;

name	sport	TEAM	TOTAL_MEDALS
Robert Tait McKenzie	Art Competitions	Canada	116
Heikki Ilmari Savolainen	Gymnastics	Finland	78
Joseph Josy Stoffel	Gymnastics	Luxembourg	76

Result 18

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

select name,team,count(medal) as GOLD_MEDAL

from olympics

where sport='cycling'and medal='gold'

group by name,team

order by GOLD_MEDAL desc

limit 1;

name	team	GOLD_MEDAL
Christopher Andrew Chris Hoy	Great Britain	36

Result 19

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

select name,team,count(medal) as TOTAL_MEDALS

from olympics

where sport='basketball'and medal in ('gold','silver','bronze')

group by name,team

order by TOTAL_MEDALS desc

limit 1;

Result Grid				Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:	
	name	team	TOTAL_MEDALS					
▶	Teresa Edwards	United States	15					

Result 20 x

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

select name,medal,count(medal) as MEDAL_COUNT from olympics

where name='teresa edwards'and

sport='basketball'

group by name,medal;

Result Grid				Filter Rows:	Export:	Wrap Cell Content:	
	name	medal	MEDAL_COUNT				
▶	Teresa Edwards	Gold	12				
	Teresa Edwards	Bronze	3				

Result 21 x

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

select year,medal, COUNT(medal) AS MEDAL_TOTAL

from olympic2

where sex in ('male','female')and medal is not null

group by year,sex,medal

order by year;

Result Grid			
		Filter Rows:	
		Export:	Wrap Cell Content:
	name	medal	MEDAL_COUNT
▶	Teresa Edwards	Gold	12
▶	Teresa Edwards	Bronze	3

Result 52 ×