

# SQL PROJECT – ATHLETES

Loading the data from CSV file.

```
27 • load data infile 'C:/ProgramData/MySQL/MySQL Server 8.2/Uploads/Athletes_Cleaned.csv'
28 into table olympics
29 fields terminated by ','
30 enclosed by '"'
31 lines terminated by '\r\n'
32 ignore 1 rows;
```

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

## SQL Query of Problem Statements along with Results.

1. Show how many medals counts present for entire data.

```
select medal, count(medal) as medalcount
from olympics
group by medal;
```

medal	medalcount
NoMedal	231333
Gold	13372
Bronze	13295
Silver	13116

2. Show count of unique sports present in Olympics.

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

Result Grid	
	sportcount
▶	66

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

```
select team, medal, count(*) from olympics  
where (team = 'india' and medal != 'nomedal')  
group by medal;
```

Result Grid			
	team	medal	count(*)
▶	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 team, event, count(*) as medalcount
from olympics
where team='india' and medal<>'nomedal'
group by event
order by medalcount desc;
```

Result Grid			
	team	event	medalcount
▶	India	Hockey Mens Hockey	173
	India	Alpinism Mixed Alpinism	7
	India	Shooting Mens Air Rifle 10 metres	2
	India	Wrestling Mens Welterweight Freestyle	2
	India	Badminton Womens Singles	2
	India	Wrestling Mens Lightweight Freestyle	1
	India	Wrestling Mens Bantamweight Freestyle	1
	India	Boxing Womens Flyweight	1
	India	Shooting Mens RapidFire Pistol 25 metres	1

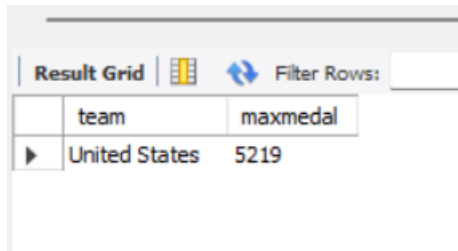
5. Show event wise medals won by India in order of year.

```
select team, year, event, count(medal) as medal_count
from olympics
where team='india' and medal<>'nomedal'
group by year, event
order by year;
```

Result Grid				
	team	year	event	medal_count
▶	India	1900	Athletics Mens 200 metres	1
	India	1900	Athletics Mens 200 metres Hurdles	1
	India	1924	Alpinism Mixed Alpinism	7
	India	1928	Hockey Mens Hockey	14
	India	1932	Hockey Mens Hockey	15
	India	1936	Hockey Mens Hockey	19
	India	1948	Hockey Mens Hockey	20
	India	1952	Hockey Mens Hockey	14
	India	1952	Wrestling Mens Bantamweight Freestyle	1

6. show country who won maximum medals.

```
select team, count(*) as maxmedal from olympics
where medal <> 'nomedal'
group by team
order by maxmedal desc
limit 1;
```

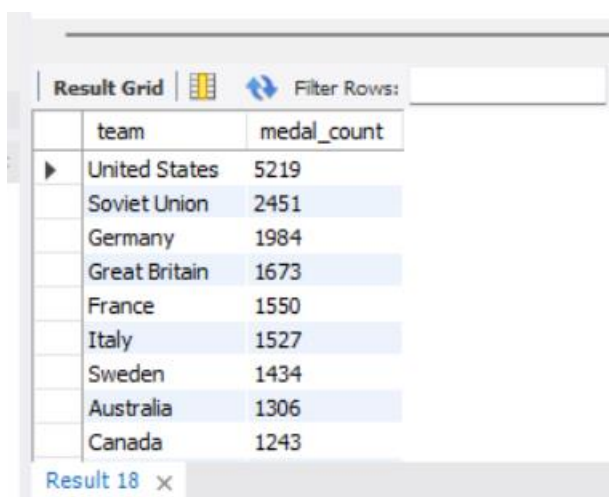


The screenshot shows a database interface with a 'Result Grid' tab. It contains a table with two columns: 'team' and 'maxmedal'. The first row shows 'United States' with a value of 5219.

	team	maxmedal
▶	United States	5219

7. show top 10 countries who won gold.

```
select team, count(medal) as medal_count from olympics
where medal != 'nomedal'
group by team
order by medal_count desc
limit 10;
```



The screenshot shows a database interface with a 'Result Grid' tab. It contains a table with two columns: 'team' and 'medal\_count'. The first 10 rows are listed, showing the top teams by medal count.

	team	medal_count
▶	United States	5219
	Soviet Union	2451
	Germany	1984
	Great Britain	1673
	France	1550
	Italy	1527
	Sweden	1434
	Australia	1306
	Canada	1243

Result 18 x

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

```
select team, year, count(*) as maxgold from olympics
where medal = 'gold' and team = 'united states'
group by year
order by maxgold desc
limit 1;
```

Result Grid			
Filter Rows:			
	team	year	maxgold
▶	United States	1984	190

9. In which sports United States has most medals.

```
select team, sport, count(*) as mostmedal from olympics
where medal <> 'nomedal' and team = 'united states'
group by sport
order by mostmedal desc
limit 1;
```

Result Grid			
Filter Rows:			
	team	sport	mostmedal
▶	United States	Athletics	1071

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

```
select name, sport, team, count(*) as mostmedal from olympics
where medal <> 'nomedal'
group by name, team, sport
order by mostmedal desc
limit 3;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	name	sport	team	mostmedal
▶	Michael Fred Phelps II	Swimming	United States	28
	Larysa Semenivna Latynina Diriy	Gymnastics	Soviet Union	18
	Nikolay Yefimovich Andrianov	Gymnastics	Soviet Union	15

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

```
select name, sport, team, count(*) as mostgold from olympics
where medal = 'gold' and sport = 'cycling'
group by name, sport, team
order by mostgold desc
limit 1;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	name	sport	team	mostgold
▶	Christopher Andrew Chris Hoy	Cycling	Great Britain	6

12. Find top 7 player with most medals (Gold+Silver+Bronze) in Basketball also show his country.

```
select name, sport, team, count(*) as mostmedal from olympics
where medal <> 'nomedal' and sport = 'basketball'
group by name, team, sport
order by mostmedal desc
limit 7;
```

	name	sport	team	mostmedal
▶	Teresa Edwards	Basketball	United States	5
	Carmelo Kyan Anthony	Basketball	United States	4
	Lauren Elizabeth Jackson	Basketball	Australia	4
	Kristi Lee Harrower	Basketball	Australia	4
	Tamika Devonne Catchings	Basketball	United States	4
	Sergey Aleksandrovich Belov	Basketball	Soviet Union	4
	Suzanne Brigit Sue Bird	Basketball	United States	4

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

```
select name, medal, count(*) from olympics
where name = 'teresa edwards' and medal <> 'nomedal'
group by medal;
```

	name	medal	count(*)
▶	Teresa Edwards	Gold	4
	Teresa Edwards	Bronze	1

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

```
select sex, year, count(*) as medalcount from olympics
where medal <> 'nomedal'
group by sex, year
order by year;
```

Result Grid			
Filter Rows:			
	sex	year	medalcount
▶	M	1896	143
	M	1900	591
	F	1900	13
	M	1904	476
	F	1904	10
	F	1906	6
	M	1906	452
	M	1908	815
	F	1908	16

Result 28 ×