

OLYMPICS HISTORY DATABASE

DATABASE NAME: Olympics

Table 1: Olympics_history

Table 2: NOC_regions

CREATE DATABASE olympics;

USE olympics;

1. HOW TO CREATE TABLE AND DROP TABLE

TABLE 1:

DROP TABLE IF EXISTS olympics_history;

```
CREATE TABLE IF NOT EXISTS olympics_history(id INT PRIMARY KEY,  
name VARCHAR(30),  
sex VARCHAR(30),  
age VARCHAR(30),  
height VARCHAR(30),  
weight VARCHAR(30),  
team VARCHAR(30),  
noc VARCHAR(30),  
games VARCHAR(30),  
year INT(30),  
season VARCHAR(30),  
city VARCHAR(30),  
sport VARCHAR(30),  
event VARCHAR(30),  
medal VARCHAR(30)  
);
```

TABLE 2:

DROP TABLE IF EXISTS NOC_regions ;

CREATE TABLE IF NOT EXISTS NOC_regions

```
(  
    noc      VARCHAR(30),  
    region   VARCHAR(30),  
    notes    VARCHAR(30)  
);
```

SELECT * FROM olympics_history;

SELECT * FROM NOC_regions;

OUTPUT: (Olympics history)

[https://drive.google.com/file/d/1214ojtbORhiLs-tUXmv0loqqEJA-NWV/view?usp=drive link](https://drive.google.com/file/d/1214ojtbORhiLs-tUXmv0loqqEJA-NWV/view?usp=drive_link)

OUTPUT: (NOC_regions)

[https://drive.google.com/file/d/14xGYkyvaDHbOVSvSTW6rB7o_B3uSrMy5/view?usp=drive link](https://drive.google.com/file/d/14xGYkyvaDHbOVSvSTW6rB7o_B3uSrMy5/view?usp=drive_link)

-- 2. HOW TO CREATE VIEWS FOR OLYMPICS_HISTORY TABLE AND NOC_REGION TABLE?

CREATE VIEW history_noc_regions

AS

```
SELECT  
    olympics_history.id,olympics_history.name,olympics_history.sex,olympics_history.age,olympics_hist  
ory.height,  
  
    olympics_history.weight,olympics_history.team,olympics_history.noc,olympics_history.games,  
  
    olympics_history.year,olympics_history.season,olympics_history.city,olympics_history.sport,  
  
    olympics_history.event,olympics_history.medal,NOC_regions.region,NOC_regions.notes  
FROM olympics_history
```

```
INNER JOIN NOC_regions
ON olympics_history.noc=NOC_regions.noc
ORDER BY id;
```

```
SELECT * FROM history_noc_regions;
```

-- 3. HOW MANY OLYMPICS GAMES HAVE BEEN HELD?

```
SELECT count(DISTINCT games) AS total_olympic_games
FROM history_noc_regions;
```

OUTPUT:

	total_olympic_games
▶	51

-- 4. LIST DOWN ALL OLYMPICS GAMES HELD SO FAR?

```
SELECT DISTINCT oh.year,oh.season,oh.city
FROM olympics_history AS oh
ORDER BY year;
```

OUTPUT:

	year	season	city
▶	1896	Summer	Athina
	1900	Summer	Paris
	1904	Summer	St. Louis
	1906	Summer	Athina
	1908	Summer	London
	1912	Summer	Stockholm
	1920	Summer	Antwerpen
	1924	Summer	Paris
	1924	Winter	Chamonix

olympics_history2 x

-- 5. MENTION THE TOTAL NO OF NATIONS WHO PARTICIPATED IN EACH OLYMPICS GAME?

```
SELECT games, count(1) AS total_countries
FROM history_noc_regions
GROUP BY games
ORDER BY games;
```

OUTPUT:

	games	total_countries
▶	1896 Summer	27
	1900 Summer	208
	1904 Summer	115
	1906 Summer	99
	1908 Summer	250
	1912 Summer	268
	1920 Summer	394
	1924 Summer	434
	1924 Winter	43

-- 6. BREAK DOWN ALL OLYMPIC GAMES WHERE INDIA WON MEDAL FOR HOCKEY AND HOW MANY MEDALS IN EACH OLYMPIC GAMES?

```
select sport, count(1) as total_medals
from olympics_history
where medal <> 'NA'
and team = 'India'
```

group by sport

order by total_medals desc;

OUTPUT:

	team	sport	games	total_medals
▶	India	Hockey	1948 Summer	4
	India	Hockey	1928 Summer	3
	India	Hockey	1932 Summer	3
	India	Hockey	1936 Summer	3
	India	Hockey	1972 Summer	2
	India	Hockey	1952 Summer	2
	India	Hockey	1964 Summer	1
	India	Hockey	1960 Summer	1
	India	Hockey	1968 Summer	1

-- 7. IN WHICH SPORT/EVENT, INDIA HAS WON HIGHEST MEDALS?

SELECT sport, count(1) AS total_medals

FROM olympics_history

WHERE medal <> 'NA'

AND team = 'India'

GROUP BY sport

ORDER BY total_medals DESC;

OUTPUT:

	sport	total_medals
▶	Hockey	21

-- 8. FETCH THE TOTAL NO OF SPORTS PLAYED IN EACH OLYMPIC GAMES?

```

with t1 as
    (select distinct games, sport
     from olympics_history),
t2 as
    (select games, count(1) as no_of_sports
     from t1
     group by games)
select * from t2
order by no_of_sports desc;

```

OUTPUT:

	games	no_of_sports
▶	2008 Summer	24
	2004 Summer	24
	2000 Summer	24
	1992 Summer	23
	1996 Summer	23
	2016 Summer	23
	2012 Summer	22
	1988 Summer	21
	1980 Summer	19

-- 9. TOP 5 ATHLETES WHO HAVE WON THE MOST MEDALS (GOLD/SILVER/BRONZE)?

```

with t1 as
    (select name, team, count(1) as total_medals
     from olympics_history
     where medal in ('Gold', 'Silver', 'Bronze')
     group by name, team)

```

```

order by total_medals desc),

t2 as

(select *, dense_rank() over (order by total_medals desc) as rnk

from t1)

select name, team, total_medals

from t2

where rnk <= 5;

```

OUTPUT:

	name	team	total_medals
►	Mushtaq Ahmed	Pakistan	2
	Edgar Lindenau Aabye	Denmark/Sweden	1
	Juhamatti Tapio Aaltonen	Finland	1
	Paavo Johannes Aaltonen	Finland	1
	Ragnhild Margrethe Aamodt	Norway	1
	Willemien Aardenburg	Netherlands	1
	Ann Kristin Aarnes	Norway	1
	Thomas Valentin Aas	Taifun	1
	Ren Ahadie	France	1

-- 10. FETCH THE TOP 5 ATHLETES WHO HAVE WON THE MOST GOLD MEDALS?

```

SELECT name, team, count(1) AS total_gold_medals

FROM olympics_history

WHERE medal = 'Gold'

GROUP BY name, team

ORDER BY total_gold_medals DESC;

```

OUTPUT:

	name	team	total_gold_medals
►	Mushtaq Ahmed	Pakistan	2
	Edgar Lindenau Aabye	Denmark/Sweden	1
	Paavo Johannes Aaltonen	Finland	1
	Ragnhild Margrethe Aamodt	Norway	1
	Thomas Valentin Aas	Taifun	1
	Ren Abadie	France	1
	Luc Abalo	France	1
	Jouan Patrice Abanda Etong	Cameroon	1
	Ins Mara Aharra Plotas	Spain	1

-- 11. FIND THE NO OF MALE AND FEMALE ATHLETES PARTICIPATED IN ALL OLYMPIC GAMES?

```
SELECT sex, count(1) AS count_participations
FROM olympics_history
GROUP BY sex;
```

OUTPUT:

	sex	count_participations
►	M	15956
	F	4236

-- 12. HOW TO CREATE A STORED PROCEDURE FOR OLYMPICS_HISTORY TABLE?

```
DELIMITER //
CREATE PROCEDURE gethistory()
BEGIN
    SELECT * FROM olympics_history;
END//
DELIMITER ;

CALL gethistory();
```


OUTPUT:

	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	NA	NA	Denmark	DEN	1920 Summer	1920	Summer	Antwerpen	Football
	4	Edgar Lindenau Aabye	M	34	NA	NA	Denmark/Sweden	DEN	1900 Summer	1900	Summer	Paris	Tug-Of-Wa
	9	Antti Sami Aalto	M	26	186	96	Finland	FIN	2002 Winter	2002	Winter	Salt Lake City	Ice Hockey
	12	Jyri Tapani Aalto	M	31	172	70	Finland	FIN	2000 Summer	2000	Summer	Sydney	Badminton
	13	Minna Maarit Aalto	F	30	159	55.5	Finland	FIN	1996 Summer	1996	Summer	Atlanta	Sailing
	16	Tuhamatti Taneli Aaltonen	M	28	184	85	Finland	FIN	2014 Winter	2014	Winter	Sochi	Ice Hockey
<													>

-- 13. FETCH THE TOP 5 MOST SUCCESSFUL COUNTRIES IN OLYMPICS. SUCCESS IS DEFINED BY NO OF MEDALS WON?

with t1 as

```
(select nr.region, count(1) as total_medals
```

```
from olympics_history oh
```

```
join noc_regions nr on nr.noc = oh.noc
```

```
where medal <> 'NA'
```

```
group by nr.region
```

```
order by total_medals desc),
```

t2 as

```
(select *, dense_rank() over(order by total_medals desc) as rnk
```

```
from t1)
```

select *

from t2

where rnk <= 5;

OUTPUT:

	region	total_medals	rnk
▶	USA	471	1
	Germany	217	2
	UK	202	3
	Italy	195	4
	Russia	175	5

-- 14. WHICH YEAR SAW THE HIGHEST AND LOWEST NO OF COUNTRIES PARTICIPATING IN OLYMPICS?

with all_countries as

```
(select games, nr.region
from olympics_history oh
join noc_regions nr ON nr.noc=oh.noc
group by games, nr.region),
```

tot_countries as

```
(select games, count(1) as total_countries
from all_countries
group by games)
```

select distinct

```
concat(first_value(games) over(order by total_countries)
```

```
, ' - '
```

```
, first_value(total_countries) over(order by total_countries)) as Lowest_Countries,
```

```
concat(first_value(games) over(order by total_countries desc)
```

```
, ' - '
```

```
, first_value(total_countries) over(order by total_countries desc)) as Highest_Countries
```

```
from tot_countries
```

```
order by 1;
```

OUTPUT:

	Lowest_Countries	Highest_Countries
►	1904 Summer - 7	2012 Summer - 150