SQL PROJECT of OLYMPICS HISTORY

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Table:
olympics_history

Columns:
ID	int
Name	text
Sex	text
Age	int
Height	text
Weight	text
Team	text
NOC	text
Games	text
Year	int
Season	text
City	text
Sport	text
Event	text
Medal	text

Table:
olympics_history_noc_reg

Columns:
NOC	text
region	text
notes	text

Schema: olympic

```
use olympic ;

DROP TABLE  OLYMPICS_HISTORY;

DROP TABLE
OLYMPICS_HISTORY_NOC_REGIONS;

select * from OLYMPICS_HISTORY;

select * from
OLYMPICS_HISTORY_NOC_REGIONS;
```
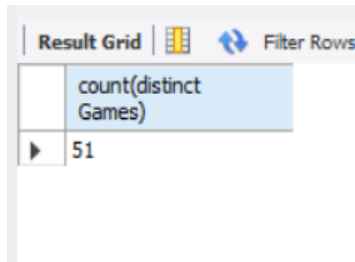
QUERY

1. How many Olympics games have been held?

SELECT COUNT (distinct Games) FROM olympics_history;

count(distinct Games)
51

2. All summer olympic games and sports

SELECT distinct Games, Sport

FROM olympics_history

where Season = 'Summer';

Games	Sport
1992 Summer	Basketball
2012 Summer	Judo
1920 Summer	Football
1900 Summer	Tug-Of-War
1932 Summer	Athletics
1952 Summer	Swimming
2000 Summer	Badminton
1996 Summer	Sailing
2000 Summer	Sailing
1912 Summer	Swimming
1920 Summer	Swimming
1924 Summer	Swimming
1948 Summer	Gymnastics

3. All olympic games where India won medal for Hockey and count of medals in each olympic games

select Team, Sport, Games, count (1) as total_medals

from olympics_history

where Medal <> 'NA'

and Team = 'India' and Sport = 'Hockey'

group by Team, Sport, Games

order by total_medals desc;

Team	Sport	Games	total_medals
India	Hockey	1928 Summer	2
India	Hockey	1932 Summer	2
India	Hockey	1964 Summer	1
India	Hockey	1936 Summer	1
India	Hockey	1960 Summer	1
India	Hockey	1980 Summer	1
India	Hockey	1972 Summer	1

4. In which Sport, India has won highest medals.

with t1 as

    (select sport, count(1) as total_medals

    from olympics_history

    where medal <> 'NA'

    and team = 'India'

    group by sport

    order by total_medals desc),

    t2 as

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

    from t1)

  select sport, total_medals

  from t2

  where rnk = 1;

sport	total_medals
Hockey	9

5. How many times each player is participated in Olympics

SELECT DISTINCT (Name) AS Players, COUNT(Games) AS No_of_particpation

FROM olympics_history

GROUP BY Name

ORDER BY Name ;

Players	No_of_particpation
A Dijiang	1
A Lam A Dijiang	1
Aage Berntsen	5
Aage Birch	3
Aage Jrgen Christian Andersen	1
Aaltje Grietje "Alie"" Boorsma"	2
Aarno Aksel "Arno"" Almqvist"	1
Aaron Blunck	1
Aaron J. "AJ"" Bear"	4
Aaron Nigel Armstrong	2
Aauri Lorena Bokesa Abia	2
Abas Arslanagi	2
Abbas Al-Harbi	1
Abbas Al-Qaisoum	1
Abbo Dias Bartolomeu	1
Abbos Atayev	2
Abby Bishop	1
Abdal Salam Al-Dabaji	1
Abdalla Abdelgadir El-Sheikh	1
Abdalla Ahmed	1
Abdalla Al-Sebaei	1
Abdel Amid Boutefnouchet	1

6. List of all Olympics games held so far

select distinct Year, Season, City

from olympics_history

order by Year;

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
1928	Summer	Amsterdam
1928	Winter	Sankt Moritz
1932	Summer	Los Angeles
1932	Winter	Lake Placid

7. Total no of nations who participated in each olympic game of that year

with all_countries as

    (select games, nr.region

    from olympics_history oh

    join olympics_history_noc_regions nr ON nr.noc = oh.noc

    group by games, nr.region)

  select games, count(1) as total_countries

  from all_countries

  group by games

  order by games;

games	total_countries
1896 Summer	3
1900 Summer	10
1904 Summer	3
1906 Summer	11
1908 Summer	12
1912 Summer	14
1920 Summer	15
1924 Summer	23
1924 Winter	8
1928 Summer	22
1928 Winter	11
1932 Summer	17
1932 Winter	7

8. The sport which was played in all summer Olympics

```
with t1 as
        (select count(distinct games) as total_games
        from olympics_history where season = 'Summer'),
    t2 as
        (select sport, count(1) as no_of_games
        from olympics_history
        group by sport)
    select *
    from t2
    join t1 on t1.total_games = t2.no_of_games;
```

sport	no_of_games	total_games

9. Sports were just played only once in the Olympics

```
with t1 as
        (select distinct games, sport
        from olympics_history),
    t2 as
        (select sport, count(1) as no_of_games
        from t1
        group by sport)
    select t2.*, t1.games
    from t2
    join t1 on t1.sport = t2.sport
    where t2.no_of_games = 1
    order by t1.sport;
```

sport	no_of_games	games
Cricket	1	1900 Summer
Croquet	1	1900 Summer
Jeu De Paume	1	1908 Summer
Military Ski Patrol	1	1924 Winter
Racquets	1	1908 Summer
Rugby Sevens	1	2016 Summer

10.How many times each sport has been played

select distinct Sport, count(Games) as no_of_games

from olympics_history

group by Sport;

Sport	no_of_games
Basketball	470
Judo	430
Football	874
Tug-Of-War	9
Speed Skating	519
Cross Country Skiing	992
Athletics	4425
Ice Hockey	484
Swimming	2338
Badminton	108
Sailing	763
Biathlon	497
Gymnastics	2425
Art Competitions	324
Alpine Skiing	956
Handball	413
Weightlifting	405
Wrestling	839
Luge	122
Water Polo	386
Hockey	538
Rowing	990

11.Five Sports which is played maximum times in Olympics.

select distinct Sport, count(Games) as no_of_games

from olympics_history

group by Sport

order by no_of_games desc

limit 5;

Sport	no_of_games
Athletics	4425
Gymnastics	2425
Swimming	2338
Shooting	1183
Fencing	1109

12. Top 5 athletes who have won the most gold medals.

```
with t1 as
        (select Name, count(1) as total_medals
        from olympics_history
        where Medal = 'Gold'
        group by Name
        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;
```

Name	total_medals	rnk
Matthew Nicholas "Matt"" Biondi"	8	1
Ole Einar Bjrndalen	8	1
Usain St. Leo Bolt	8	1
Nikolay Yefimovich Andrianov	7	2
Viktor An	6	3
Marit Bjrgen	6	3
Nathan Ghar-Jun Adrian	5	4
Thomas Alsgaard (Alsgrd-)	5	4
Polina Hryhorivna Astakhova	5	4
Bonnie Kathleen Blair (-Cruikshank)	5	4
Kjetil Andr Aamodt	4	5
Charles Benedict "Ben"" Ainslie"	4	5
Simon Ammann	4	5
Vladimir Nikolayevich Artyomov	4	5
Evelyn Ashford (-Washington)	4	5
Ivar Eugen Ballangrud (Eriksen-)	4	5
Ludger Beerbaum	4	5
Simone Arianne Biles	4	5
Suzanne Brigit "Sue"" Bird"	4	5
Francina Elsje "Fanny"" Blankers-K…	4	5
Kathrin Boron (-Kppen)	4	5

13.Find youngest player from which team and sport and its age

SELECT DISTINCT(Name), Team, Sport, Age

FROM olympics_history

WHERE Age = (

 SELECT MIN(Age)

 FROM olympics_history

);

Name	Team	Sport	Age
Marcia Arriaga Larrinua	Mexico	Swimming	12

14.Count of summer and winter Olympics

SELECT 'Summer' AS Olympic_Season, COUNT(Season = 'Summer') AS Total
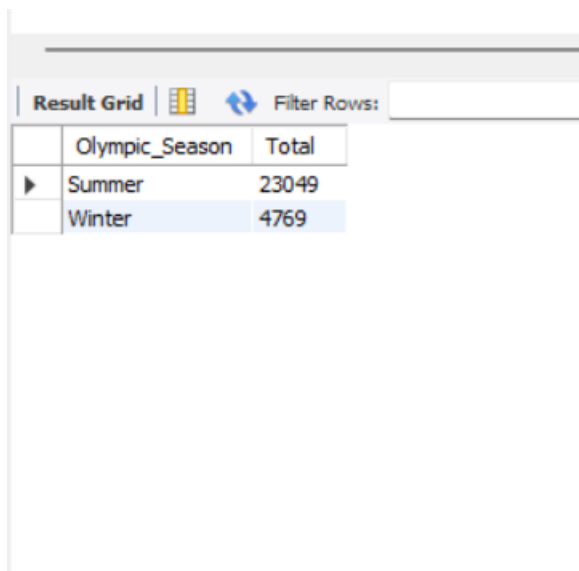
FROM olympics_history

WHERE Season = 'Summer'

UNION ALL

SELECT 'Winter' AS Olympic_Season, COUNT(Season = 'Winter') AS Total

FROM olympics_history

WHERE Season = 'Winter';

	Olympic_Season	Total
▶	Summer	23049
	Winter	4769

15. Region of players by joining another table

SELECT olympics_history.Name,

olympics_history.Event,
olympics_history.Medal,olympics_history_noc_regions.region

FROM olympics_history

JOIN olympics_history_noc_regions

ON olympics_history.NOC =

olympics_history_noc_regions.NOC;

Name	region
A Dijiang	China
A Lamusi	China
Gunnar Nielsen Aaby	Denmark
Edgar Lindenau Aabye	Denmark
Per Knut Aaland	USA
Per Knut Aaland	USA
Per Knut Aaland	USA
Per Knut Aaland	USA
Per Knut Aaland	USA
Per Knut Aaland	USA
Per Knut Aaland	USA
Per Knut Aaland	USA
John Aalberg	USA
John Aalberg	USA
John Aalberg	USA
John Aalberg	USA
John Aalberg	USA