

```
create database olympics;
```

```
use olympics;
```

```
##Uploading the data
```

```
DROP TABLE IF EXISTS OLYMPICS_HISTORY;
```

```
CREATE TABLE IF NOT EXISTS OLYMPICS_HISTORY
```

```
(  
    id      INT,  
    name    VARCHAR(255),  
    sex     VARCHAR(255),  
    age     VARCHAR(255),  
    height  VARCHAR(255),  
    weight  VARCHAR(255),  
    team    VARCHAR(255),  
    noc     VARCHAR(255),  
    games   VARCHAR(255),  
    year    INT NULL,  
    season  VARCHAR(255),  
    city    VARCHAR(255),  
    sport   VARCHAR(255),  
    event   VARCHAR(255),  
    medal   VARCHAR(255)  
);
```

```
DROP TABLE IF EXISTS OLYMPICS_HISTORY_NOC_REGIONS;
```

```
CREATE TABLE IF NOT EXISTS OLYMPICS_HISTORY_NOC_REGIONS
```

```
(  
    noc     VARCHAR(10), -- Adjust the length based on your needs  
    region  VARCHAR(100), -- Adjust the length based on your needs  
    notes   VARCHAR(255) -- Adjust the length based on your needs  
);
```

```
select * from olympics_history;
```

```
select * from OLYMPICS_HISTORY_NOC_REGIONS;
```

-----  
-----

#1. How many olympics games have been held?

```
select count(distinct games) as total_olympic_games  
from olympics_history;
```

#2. List down all Olympics games held so far.

```
select distinct year,season, city from olympics_history  
order by year ;
```

#3. Mention the total no of nations who participated in each olympics game?

```
SELECT games, COUNT(DISTINCT noc) AS total_number_of_countries  
FROM olympics_history  
GROUP BY games  
ORDER BY games;
```

#4.Which year saw the highest and lowest no of countries participating in olympics?

-- Query to find the year with the highest number of countries participating

```
SELECT year, COUNT(noc) AS num_countries  
FROM olympics_history  
GROUP BY year  
ORDER BY num_countries desc  
LIMIT 1;
```

-- Query to find the year with the lowest number of countries participating

```
SELECT year, COUNT(noc) AS num_countries  
FROM olympics_history
```

```
GROUP BY year
ORDER BY num_countries ASC
LIMIT 1;
```

#5 Which nation has participated in all of the olympic games?

```
SELECT noc, COUNT( year) AS participation_years
FROM olympics_history
GROUP BY noc
HAVING participation_years = (SELECT COUNT(DISTINCT year) FROM olympics_history);
```

#6. Identify the sport which was played in all summer olympics.

```
WITH total_games AS (
    SELECT COUNT(DISTINCT games) AS total_games
    FROM olympics_history
    WHERE season = 'Summer'
),
sport_games AS (
    SELECT sport, COUNT(DISTINCT games) AS sport_game_count
    FROM olympics_history
    WHERE season = 'Summer'
    GROUP BY sport
)
SELECT sport
FROM sport_games
JOIN total_games ON sport_games.sport_game_count = total_games.total_games;
```

#7. Which Sports were just played only once in the olympics?

```
SELECT sport, COUNT(DISTINCT games) AS games_count
FROM olympics_history
GROUP BY sport
HAVING COUNT(DISTINCT games) = 1;
```

#8. Fetch the total no of sports played in each olympic games.

```
SELECT games, COUNT(DISTINCT sport) AS total_no_sports
FROM olympics_history
GROUP BY games;
```

#9. Fetch details of the oldest athletes to win a gold medal.

```
select oh.name, oh.age , oh.sex, oh.team, oh.sport, oh.medal, oh.year from olympics_history oh
where oh.medal = "Gold"
order by oh.age desc;
```

#10. Find the Ratio of male and female athletes participated in all olympic games

```
WITH gender_counts AS (
    SELECT
        sex,
        COUNT(1) AS cnt
    FROM
        olympics_history
    GROUP BY
        sex
)
SELECT
    CONCAT('1 : ', ROUND(MAX(cnt) * 1.0 / NULLIF(MIN(cnt), 0), 2)) AS ratio
FROM
    gender_counts;
```

#11. Fetch the top 5 athletes who have won the most gold medals.

```
SELECT
    oh.name,
    COUNT(oh.medal) AS count_medal
FROM
```

```
    olympics_history oh
WHERE
    oh.medal = 'Gold'
GROUP BY
    oh.name
ORDER BY
    count_medal DESC
LIMIT 5;
```

#12.Fetch the top 5 athletes who have won the most medals (gold/silver/bronze).

```
SELECT
    oh.name,
    COUNT(oh.medal) AS count_medal
FROM
    olympics_history oh
GROUP BY
    oh.name
ORDER BY
    count_medal DESC
LIMIT 5;
```

#13.Fetch the top 5 most successful countries in olympics. Success is defined by no of medals won.

```
SELECT
    oh.team,
    COUNT(oh.medal) AS count_medal
FROM
    olympics_history oh
GROUP BY
    oh.team
ORDER BY
```

```
count_medal DESC  
LIMIT 5;
```

#14. List down total gold, silver and bronze medals won by each country

```
SELECT  
    team,  
    COUNT(CASE WHEN medal = 'Gold' THEN 1 END) AS total_gold,  
    COUNT(CASE WHEN medal = 'Silver' THEN 1 END) AS total_silver,  
    COUNT(CASE WHEN medal = 'Bronze' THEN 1 END) AS total_bronze  
FROM  
    olympics_history  
GROUP BY  
    team  
ORDER BY  
    team DESC; -- Orders the results by country name in descending order
```

#15. List down total gold, silver and bronze medals won by each country corresponding to each olympic games.

```
SELECT  
    team,  
    games,  
    COUNT(CASE WHEN medal = 'Gold' THEN 1 END) AS total_gold,  
    COUNT(CASE WHEN medal = 'Silver' THEN 1 END) AS total_silver,  
    COUNT(CASE WHEN medal = 'Bronze' THEN 1 END) AS total_bronze  
FROM  
    olympics_history  
GROUP BY  
    team, games  
ORDER BY  
    games, team;
```

#16. Identify which country won the most gold, most silver and most bronze medals in each olympic games.

WITH Medal\_Counts AS (

SELECT

team,

games,

COUNT(CASE WHEN medal = 'Gold' THEN 1 END) AS total\_gold,

COUNT(CASE WHEN medal = 'Silver' THEN 1 END) AS total\_silver,

COUNT(CASE WHEN medal = 'Bronze' THEN 1 END) AS total\_bronze

FROM

olympics\_history

GROUP BY

team, games

),

Ranked\_Teams AS (

SELECT

games,

team,

total\_gold,

total\_silver,

total\_bronze,

RANK() OVER (PARTITION BY games ORDER BY total\_gold DESC) AS rank\_gold,

RANK() OVER (PARTITION BY games ORDER BY total\_silver DESC) AS rank\_silver,

RANK() OVER (PARTITION BY games ORDER BY total\_bronze DESC) AS rank\_bronze

FROM

Medal\_Counts

)

SELECT

games,

MAX(CASE WHEN rank\_gold = 1 THEN team END) AS most\_gold\_team,

MAX(CASE WHEN rank\_gold = 1 THEN total\_gold END) AS most\_gold\_count,

```
MAX(CASE WHEN rank_silver = 1 THEN team END) AS most_silver_team,  
MAX(CASE WHEN rank_silver = 1 THEN total_silver END) AS most_silver_count,
```

```
MAX(CASE WHEN rank_bronze = 1 THEN team END) AS most_bronze_team,  
MAX(CASE WHEN rank_bronze = 1 THEN total_bronze END) AS most_bronze_count
```

```
FROM
```

```
    Ranked_Teams
```

```
GROUP BY
```

```
    games
```

```
ORDER BY
```

```
    games;
```