

```
use olympics;
```

```
select * from olympics_history;
```

```
select * from olympics_history_noc_regions;
```

```
-- How many olympics games have been held?
```

```
select count(distinct(games)) as Games_held
```

```
From olympics_history;
```

```
-- List down all Olympics games held so far
```

```
select Distinct(year), season, city
```

```
From olympics_history
```

```
order by year;
```

```
-- Mention the total no of nations who participated in each olympics game?
```

```
with all_countires as (
```

```
select o.games as games, os.region as nation
```

```
from olympics_history o inner join olympics_history_noc_regions os on o.noc = os.noc
```

```
group by nation, o.games)
```

```
select games, count(1) as total_countries
```

```
from all_countires
```

```
group by games
```

```
order by games;
```

```
-- 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 olympics_history_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;

```

-- Which nation has participated in all of the olympic games?

```

with tot_games as
(select count(distinct games) as total_games
from olympics_history),
countries as
(select games, nr.region as country
from olympics_history oh
join olympics_history_noc_regions nr ON nr.noc=oh.noc
group by games, nr.region),
countries_participated as
(select country, count(games) as total_participated_games
from countries group by country)
select cp.* from countries_participated cp
join tot_games tg on tg.total_games = cp.total_participated_games
order by 1;

```

-- Identify 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 distinct games, sport
from olympics_history where season = 'Summer'),
t3 as
(select sport, count(1) as no_of_games
from t2 group by sport)
select * from t3
join t1 on t1.total_games = t3.no_of_games;

```

-- Which 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;

```

-- 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(games) as total

```

```
from t1
group by games)
select * from t2
order by total desc;
```

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

```
with temp as (
select name, sex, cast(case when age = 'NA' then '0' else cast(age as unsigned) end as unsigned) as age,
team,games,city,sport, event, medal
from olympics_history),
ranking as (
select *, dense_rank() over (order by age desc) as rnk
from temp where medal not like("%NA%") and medal like ("%Gold%") )
select * from ranking
where rnk = 1;
```

```
select name, sex, cast(case when age = 'NA' then '0' else cast(age as unsigned) end as unsigned) as age,
team,games,city,sport, event, medal
from olympics_history;
```

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

```
WITH totalc AS (
SELECT sex, COUNT(*) AS cnt
FROM olympics_history
GROUP BY sex
),
rowno AS (
```

```

SELECT *, ROW_NUMBER() OVER (ORDER BY cnt) AS rn
FROM totalc
),
min_cnt AS (
SELECT cnt FROM rowno WHERE rn = 1
),
max_cnt AS (
SELECT cnt FROM rowno WHERE rn = 2
)
SELECT CONCAT('1 : ', ROUND((SELECT MAX(cnt) FROM max_cnt) / (SELECT MIN(cnt) FROM min_cnt), 2))
AS ratio;

```

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

```

With counts as (
select name, team, count(*) as Total_no
From olympics_history
where medal like '%Gold%'
group by name, team
order by Total_no desc ),
Ranked as (
select *, dense_rank() over (order by Total_no desc) as rn
From counts)
select name, team, Total_no
from Ranked
where rn <=5;

```

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

```

with Diff as
(select name, team, count(*) as total_medals

```

```

from olympics_history
where medal like '%Gold%' or '%Silver%' or '%Bronze%'
group by name, team
order by total_medals desc),
Ranked as
(select *, dense_rank() over (order by total_medals desc) as rnk
from Diff)
select name, team, total_medals
from Ranked
where rnk <= 5;

```

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

```

with success as (
select team, count(*) as medal_won
From olympics_history
where medal like '%Gold%' or '%Silver%' or '%Bronze%'
group by team
order by medal_won desc),
Ranked as (
select *, dense_rank() over (order by medal_won desc) as rnk
from success)
select * from Ranked
where rnk <=5;

```

-- List down total gold, silver and broze medals won by each country.

```

SELECT country, COALESCE(SUM(CASE WHEN medal like '%Gold%' THEN total_medals ELSE 0 END), 0) AS
gold,
COALESCE(SUM(CASE WHEN medal like '%Silver%' THEN total_medals ELSE 0 END), 0) AS silver,
COALESCE(SUM(CASE WHEN medal like '%Bronze%' THEN total_medals ELSE 0 END), 0) AS bronze

```

```

FROM (SELECT nr.region AS country,
medal, COUNT(*) AS total_medals
FROM OLYMPICS_HISTORY oh
JOIN OLYMPICS_HISTORY_noc_regions nr ON nr.noc = oh.noc
WHERE medal not like '%NA%'
GROUP BY nr.region, medal
ORDER BY nr.region, medal
) AS src
GROUP BY country
ORDER BY gold DESC, silver DESC, bronze DESC;

```

-- List down total gold, silver and broze medals won by each country corresponding to each olympic games.

```

SELECT games, country, COALESCE(SUM(CASE WHEN medal like '%Gold%' THEN total_medals ELSE 0
END), 0) AS gold,
COALESCE(SUM(CASE WHEN medal like '%Silver%' THEN total_medals ELSE 0 END), 0) AS silver,
COALESCE(SUM(CASE WHEN medal like '%Bronze%' THEN total_medals ELSE 0 END), 0) AS bronze
FROM (SELECT nr.region AS country, games,
medal, COUNT(*) AS total_medals
FROM OLYMPICS_HISTORY oh
JOIN OLYMPICS_HISTORY_noc_regions nr ON nr.noc = oh.noc
WHERE medal not like '%NA%'
GROUP BY nr.region, medal, games
ORDER BY nr.region, medal, games
) AS src
GROUP BY games, country
ORDER BY gold DESC, silver DESC, bronze DESC;

```

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

```

WITH temp AS ( SELECT nr.region,

```

```

SUBSTRING_INDEX(games, ' - ', 1) AS games,
SUBSTRING_INDEX(nr.region, ' - ', 1) AS country,
count(CASE WHEN medal like '%Gold%' THEN 1 ELSE 0 END) AS gold,
count(CASE WHEN medal like '%Silver%' THEN 1 ELSE 0 END) AS silver,
count(CASE WHEN medal like '%Bronze%' THEN 1 ELSE 0 END) AS bronze,
count(*) AS total_medals
FROM olympics_history oh
JOIN olympics_history_noc_regions nr ON nr.noc = oh.noc
WHERE medal <> 'NA'
GROUP BY games, nr.region
)
SELECT games,
CONCAT(country, ' - ', gold) AS Max_Gold,
CONCAT(country, ' - ', silver) AS Max_Silver,
CONCAT(country, ' - ', bronze) AS Max_Bronze,
CONCAT(country, ' - ', total_medals) AS Max_medals
FROM temp
ORDER BY games;

```

-- Which countries have never won gold medal but have won silver/bronze medals?

```

SELECT nr.region AS country,
SUM(CASE WHEN medal like '%Gold%' THEN 1 ELSE 0 END) AS gold,
SUM(CASE WHEN medal like '%Silver%' THEN 1 ELSE 0 END) AS silver,
SUM(CASE WHEN medal like '%Bronze%' THEN 1 ELSE 0 END) AS bronze
FROM olympics_history oh JOIN
olympics_history_noc_regions nr ON oh.noc = nr.noc
WHERE medal <> 'NA'
GROUP BY nr.region
HAVING gold = 0;

```



-- In which Sport/event, India has won highest medals.

with cte as (

select distinct(sport) as sport,

sum(case when medal like '%gold%' then 1 when medal like '%Silver%' then 1 when medal like '%Bronze%' then 1 else 0 end) as Total\_medals

from olympics\_history oh join olympics\_history\_noc\_regions nr on oh.noc = nr.noc

where nr.region = 'India' and sport = 'Hockey'

group by nr.region, sport )

select \* from cte

group by sport;

-- Break down all olympic games where india won medal for Hockey and how many medals in each olympic games.

Select team, sport, games, count(1) as total\_medals

from olympics\_history where medal <> 'NA' and sport='hockey' and team='india'

group by team,sport,games

order by 4 desc;

select name,count(medal) from olympics\_history

where medal<>'NA'

group by name

order by 2 desc;



# Tracking Olympic Glory: Insights into Athletes, Nations, and Sports

PLAYER PARTICIPATED

134.73K

TOP PLAYER FEMALE

Gabriella Paruzzi

TOP PLAYER MALE

Robert Tait McKenzie

SPORTS PLAYED

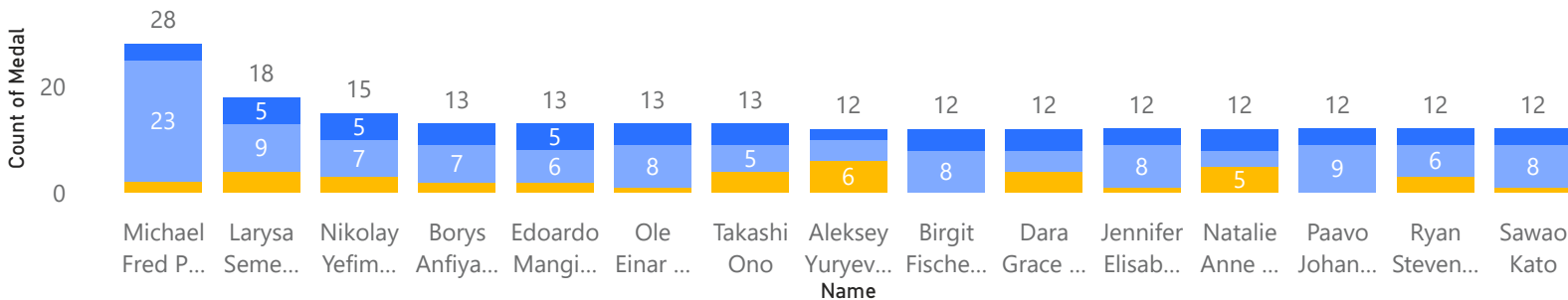
66

COUNTRY PARTICIPATED

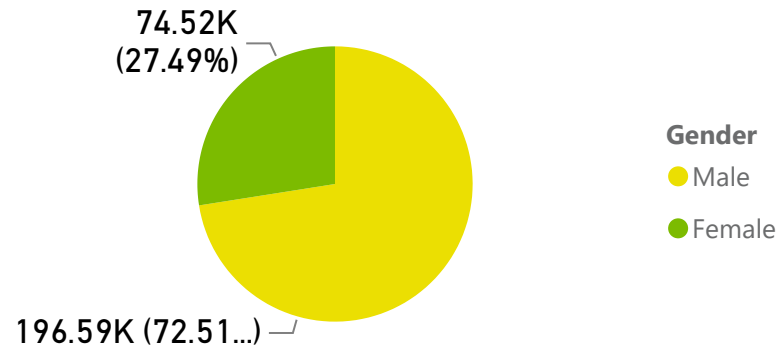
207

## Distribution Of Medal Amoungs top 10 players

Medal ● Bronze ● Gold ● Silver

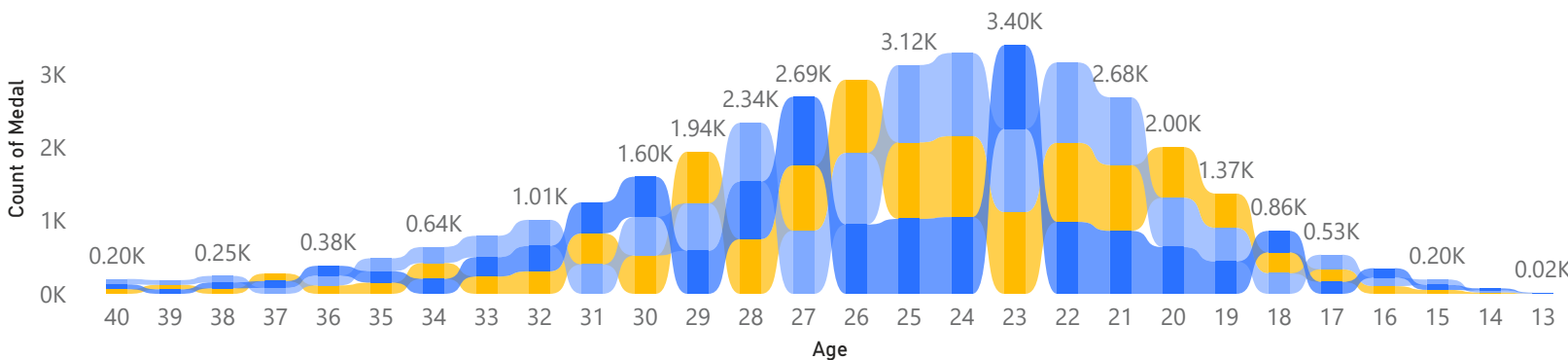


## Count of Medal by Gender



## AGE WISE MEDALS

Medal ● Bronze ● Gold ● Silver

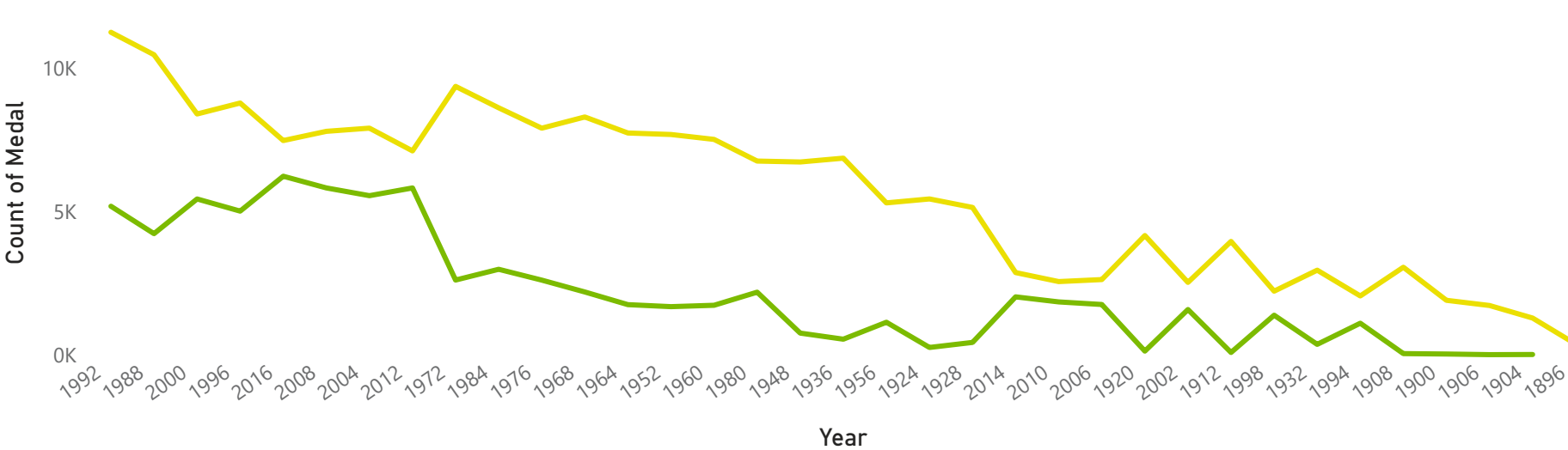


## COUNTRY WISE MEDALS

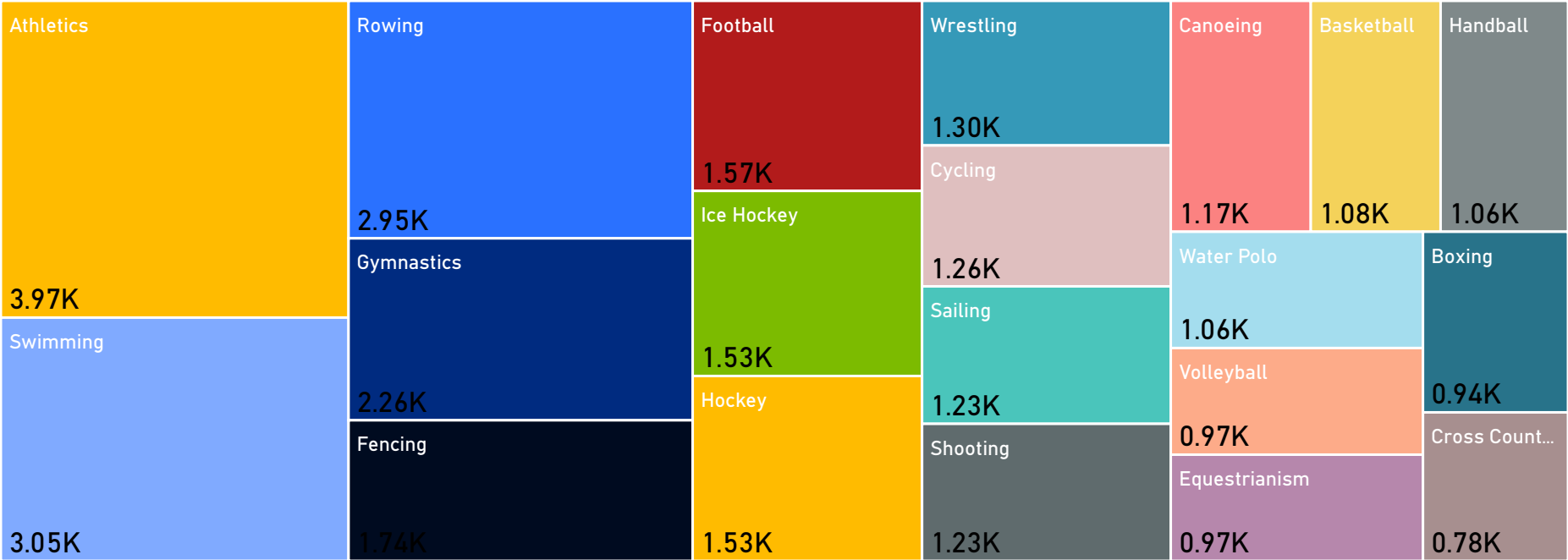
Country	Bronze	Gold	Silver	Total
USA	1358	2638	1641	5637
Russia	1178	1599	1170	3947
Germany	1260	1301	1195	3756
UK	651	678	739	2068
France	666	501	610	1777
Italy	531	575	531	1637
Sweden	535	479	522	1536
Canada	451	463	438	1352
Australia	522	368	459	1349
Hungary	371	432	332	1135

YEARWISE MEDAL

Gender ● Female ● Male



DISTURBUTION OF MEDAL BY SPORTS



SEASON WISE MEDAL

Country ● France ● Germany ● Russia ▶

