



SQL Query Showcase

# Summer Olympics SQL Analytics

1976-2008 | 15,200+ Records | Data-Driven Insights

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# Introduction and Overview

This project explores Summer Olympics data from 1976 to 2008, sourced from Kaggle, containing over 15,200 records. Using SQL queries, we analyze athlete performance, medal distributions, country rankings, and historical trends to uncover insights into the evolution of the Olympic Games.

# Which athletes participated in the 1976 Summer Olympics?

```
SELECT * FROM spotify_practice.summer_olympic_medal_1976_to_2008;
```

Event	Year	Sport	Discipline	Sub-Discipline	Athlete	Gender	Nationality	Medal Type	Silver	
Montreal	1976	Aquatics	Diving	3m springboard	KOHLER, Christa	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Diving	3m springboard	KOSENKOV, Aleksandr	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Diving	3m springboard	BOGGS, Philip George	Men	USA	United States	M	Gold
Montreal	1976	Aquatics	Diving	3m springboard	CAGNOTTO, Giorgio Franco	Men	ITA	Italy	M	Silver
Montreal	1976	Aquatics	Diving	10m platform	WILSON, Deborah Keplar	Women	USA	United States	W	Bronze
Montreal	1976	Aquatics	Diving	10m platform	LOUGANIS, Gregory	Men	USA	United States	M	Silver
Montreal	1976	Aquatics	Diving	10m platform	VAYTSEKHOVSKAYA, Elena	Women	URS	Soviet Union	W	Gold
Montreal	1976	Aquatics	Diving	3m springboard	POTTER-MCINGVALE, Cynthia	Women	USA	United States	W	Bronze
Montreal	1976	Aquatics	Diving	10m platform	DIBIASI, Klaus	Men	ITA	Italy	M	Gold
Montreal	1976	Aquatics	Diving	10m platform	ALEINK, Vladimir	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Diving	10m platform	KNAPE-LINDBERGH, Ulrika	Women	SWE	Sweden	W	Silver
Montreal	1976	Aquatics	Diving	3m springboard	CHANDLER, Jennifer Kay	Women	USA	United States	W	Gold
Montreal	1976	Aquatics	Swimming	4x100m freest...	BABASHOFF, Shirley Farber	Women	USA	United States	W	Gold
Montreal	1976	Aquatics	Swimming	400m freestyle	SHAW, Timothy Andrew	Men	USA	United States	M	Silver
Montreal	1976	Aquatics	Swimming	4x100m freest...	PRIEMER, Petra	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Swimming	1500m freestyle	HOLLAND, Stephen	Men	AUS	Australia	M	Bronze
Montreal	1976	Aquatics	Swimming	400m individua...	SMIRNOV, Andrei	Men	URS	Soviet Union	M	Bronze

# What is the total number of medals awarded in the 2000 Summer Olympics?

```
SELECT  
    COUNT(sport)  
FROM  
    spotify_practice.summer_olympic_medal_1976_to_2008  
WHERE  
    year = 2000;
```

# List the sport for every medal record in the 2000 Summer Olympics.

```
SELECT
    sport
FROM
    spotify_practice.summer_olympic_medal_1976_to_2008
WHERE
    year = 2000;
```



# List the total number of medals won by each country, but show only the first 10 results.

```
SELECT  
    COUNT(medal) AS total_medals, country  
FROM  
    spotify_practice.summer_olympic_medal_1976_to_2008  
GROUP BY country  
LIMIT 10;
```

	total_medals	country
▶	626	East Germany
	1021	Soviet Union
	1992	United States
	486	Italy
	193	Sweden
	798	Australia
	304	Canada
	345	West Germany
	428	Netherlands
	457	United Kingdom

# Provide the table showing the count of Gold, Silver, and Bronze medals won by each country in the year 2008.

```

SELECT
    Country,
    SUM( Medal = 'Gold' ) AS Gold_Medals,
    SUM( Medal = 'Silver' ) AS Silver_Medals,
    SUM( Medal = 'Bronze' ) AS Bronze_Medals
FROM spotify_practice.summer_olympic_medal_1976_to_2008
WHERE Year = 2008
GROUP BY Country
  
```

1976

2008

Country	Gold_Medals	Silver_Medals	Bronze_Medals
China	74	53	57
Australia	31	42	76
Russia	43	44	56
Ukraine	10	5	16
Germany	42	16	43
Canada	11	13	10
Mexico	2	0	2
United States	125	109	81
Norway	16	5	1
Zimbabwe	1	3	0
United Kingdom	31	25	21
Japan	23	11	17
Netherlands	40	18	4
Slovenia	1	2	2
France	25	23	28
Korea, South	41	11	26
Tunisia	1	0	0
Serbia	0	1	14
Italy	8	14	20
Hungary	16	8	3
Denmark	6	6	6
Brazil	14	34	27
Austria	0	1	2
Spain	7	48	16
Jamaica	9	3	5
Kenya	6	4	4
Latvia	1	1	1
Belarus	8	5	17
Nigeria	0	18	6
Romania	5	1	16
Ethiopia	4	1	2
Cuba	2	34	11
Trinidad and ...	0	5	0
Cameroon	1	0	0
Bahamas	0	4	1
Belgium	1	4	0

Country	Gold_Medals	Silver_Medals	Bronze_Medals
United Kingdom	31	25	21
Japan	23	11	17
Netherlands	40	18	4
Slovenia	1	2	2
France	25	23	28
Korea, South	41	11	26
Tunisia	1	0	0
Serbia	0	1	14
Italy	8	14	20
Hungary	16	8	3
Denmark	6	6	6
Brazil	14	34	27
Austria	0	1	2
Spain	7	48	16
Jamaica	9	3	5
Kenya	6	4	4
Latvia	1	1	1
Belarus	8	5	17

Country	Gold_Medals	Silver_Medals	Bronze_Medals
Italy	8	14	20
Hungary	16	8	3
Denmark	6	6	6
Brazil	14	34	27
Austria	0	1	2
Spain	7	48	16
Jamaica	9	3	5
Kenya	6	4	4
Latvia	1	1	1
Belarus	8	5	17

## Classify each country's performance in the 2008 Olympics as 'Excellent', 'Good', or 'Average' based on their total medal count.

SELECT

Country,  
COUNT(\*) AS total\_medals,

CASE

WHEN COUNT(\*) >= 20 THEN 'Excellent'

WHEN COUNT(\*) BETWEEN 10 AND 19 THEN 'Good'

WHEN COUNT(\*) BETWEEN 1 AND 9 THEN 'Average'

ELSE 'No Medal'

END AS Performance\_Category

FROM spotify\_practice.summer\_olympic\_medal\_1976\_to\_2008

WHERE Year = 2008

GROUP BY Country;

Country	total_medals	Performance_Category
Canada	34	Excellent
Mexico	4	Average
United States	315	Excellent
Norway	22	Excellent
Zimbabwe	4	Average
United Kingdom	77	Excellent
Japan	51	Excellent
Netherlands	62	Excellent
Slovenia	5	Average
France	76	Excellent
Korea, South	78	Excellent
Tunisia	1	Average
Serbia	15	Good
Italy	42	Excellent
Hungary	27	Excellent
Denmark	18	Good
Brazil	75	Excellent
Austria	3	Average

**“The important thing in the  
Olympic Games is not to win  
but to take part.”**

- Pierre de Coubertin

# Rank countries by their total medal count for the 2008 Olympics.

```
select country ,  
       count(medal) as total_medals ,  
       rank () over(order by count(medal) desc ) as ranks  
  from spotify_practice.summer_olympic_medal_1976_to_2008  
 where year = 2008  
group by Country;
```

country	total_medals	ranks
United States	315	1
China	184	2
Australia	149	3
Russia	143	4
Germany	101	5
Korea, South	78	6
United Kingdom	77	7
France	76	8
Brazil	75	9
Spain	71	10
Netherlands	62	11
Argentina	51	12
Japan	51	12
Cuba	47	14
Italy	42	15
Canada	34	16
Ukraine	31	17
Belarus	30	18

# Identify the single sport in which each country won the most medals during the 2008 Olympics

```
1 WITH sport_medals AS (
2     SELECT
3         country,
4         sport,
5         COUNT(*) AS medal_count,
6         ROW_NUMBER() OVER (PARTITION BY country ORDER BY COUNT(*) DESC) AS rn
7     FROM spotify_practice.summer_olympic_medal_1976_to_2008
8     WHERE year = 2008
9     GROUP BY country, sport
10 )
11 SELECT
12     country,
13     sport,
14     medal_count
15     FROM sport_medals
16     WHERE rn = 1;
```

	country	sport	medal_count
▶	Afghanistan	Taekwondo	1
	Algeria	Judo	2
	Argentina	Football	18
	Armenia	Weightlifting	3
	Australia	Aquatics	70
	Austria	Canoe / Kayak	1
	Azerbaijan	Wrestling	4
	Bahamas	Athletics	5
	Belarus	Canoe / Kayak	8
	Belgium	Athletics	5
	Brazil	Football	36
	Bulgaria	Wrestling	4
	Cameroon	Athletics	1
	Canada	Rowing	17
	Chile	Tennis	1
	China	Aquatics	38
	Colombia	Weightlifting	1
	Croatia	Taekwondo	2

# Perform a comparative analysis of medal performance between the 2004 and 2008 Olympic Games, calculating the net growth or decline in medal counts for each country.

```
WITH medals_2004 AS (
    SELECT country, COUNT(*) AS medals_2004
    FROM spotify_practice.summer_olympic_medal_1976_to_2008
    WHERE year = 2004
    GROUP BY country
),
-- Then, get total medals by country in 2008
medals_2008 AS (
    SELECT country, COUNT(*) AS medals_2008
    FROM spotify_practice.summer_olympic_medal_1976_to_2008
    WHERE year = 2008
    GROUP BY country
)
-- Now, join both tables on country
SELECT
    COALESCE(m04.country, m08.country) AS country,
    COALESCE(medals_2004, 0) AS medals_2004,
    COALESCE(medals_2008, 0) AS medals_2008,
    COALESCE(medals_2008, 0) - COALESCE(medals_2004, 0) AS medal_difference
FROM medals_2004 m04
JOIN medals_2008 m08
ON m04.country = m08.country;
```

country	medals_2004	medals_2008	medal_difference
China	94	184	90
Australia	157	149	-8
Russia	192	143	-49
Ukraine	48	31	-17
Germany	149	101	-48
Canada	17	34	17
Mexico	4	4	0
United States	264	315	51
Norway	7	22	15
Zimbabwe	3	4	1
United Kingdom	57	77	20
Japan	94	51	-43
Netherlands	76	62	-14
Slovenia	5	5	0
France	53	76	23
Korea, South	52	78	26
Serbia	14	15	1
Italy	102	42	-60

# Identify the Gold Medal count for the United States in the 2008 Olympics, specifically for 'major sports' where at least 5 Gold medals were awarded globally.

```
1 •  SELECT country,  
2     sport,  
3     COUNT(*) AS Gold_Medals_Count  
4   FROM  
5     spotify_practice.summer_olympic_medal_1976_to_2008  
6  WHERE  
7    year = 2008  
8    AND country = 'United States'  
9    AND medal = 'Gold'  
10   AND sport IN (  
11     -- This part finds sports with 5+ Gold medals globally  
12     SELECT sport  
13       FROM spotify_practice.summer_olympic_medal_1976_to_2008  
14      WHERE year = 2008 AND medal = 'Gold'  
15      GROUP BY sport  
16      HAVING COUNT(*) >= 5
```



country	sport	Gold_Medals_Count
United States	Aquatics	31
United States	Athletics	13
United States	Basketball	24
United States	Cycling	1
United States	Equestrian	4
United States	Fencing	1
United States	Football	18
United States	Gymnastics	2
United States	Rowing	9
United States	Sailing	1
United States	Shooting	2
United States	Tennis	2
United States	Volleyball	16
United States	Wrestling	1



```

1 • select sport ,
2   SUM( Medal = 'Gold' ) AS Gold_Medals,
3   SUM( Medal = 'Silver' ) AS Silver_Medals,
4   SUM( Medal = 'Bronze' ) AS Bronze_Medals,
5   count(medal) as total_medals
6   FROM spotify_practice.summer_olympic_medal_1976_to_2008
7   where year = 2008
8   group by sport
9   order by total_medals desc;

```

**Create a summary table of medals for each sport in the 2008 Olympics, breaking down the count by Gold, Silver, and Bronze, and sorting the results by the total number of medals awarded.**

sport	Gold_Medals	Silver_Medals	Bronze_Medals	total_medals
Aquatics	120	115	112	347
Athletics	59	60	58	177
Rowing	48	48	48	144
Football	36	36	36	108
Gymnastics	33	33	33	99
Hockey	33	32	33	98
Handball	29	28	28	85
Canoe / Kayak	28	28	28	84
Volleyball	28	28	28	84
Baseball	24	24	24	72
Basketball	24	24	24	72
Cycling	24	23	24	71
Wrestling	18	18	35	71
Fencing	20	21	21	62
Judo	14	14	28	56
Sailing	18	18	18	54
Equestrian	15	15	15	45
Shooting	15	15	15	45
Softball	15	15	15	45
Weightlifting	15	15	15	45
Boxing	11	11	22	44
Taekwondo	8	8	16	32
Archery	8	8	8	24
Other	0	0	0	0

# Identify the countries that increased their medal count by at least 50% from the 2004 to the 2008 Olympics, and display their growth percentage.

```

select
    a.country,
    a.medals_2004,
    ifnull(b.medal_2008,0) as medals_in_2008,
    round(((ifnull(b.medal_2008,0) - a.medals_2004 ) / a.medals_2004) * 100, 2) as percent_increase
from
    (SELECT country, COUNT(*) AS medals_2004
        FROM spotify_practice.summer_olympic_medal_1976_to_2008
        WHERE year = 2004
        GROUP BY country) AS a
LEFT JOIN
    (SELECT country, COUNT(*) AS medal_2008
        FROM spotify_practice.summer_olympic_medal_1976_to_2008
        WHERE year = 2008
        GROUP BY country) AS b
ON a.country = b.country
WHERE
    ((IFNULL(b.medal_2008, 0) - a.medals_2004) / a.medals_2004) >= 0.5;

```

country	medals_2004	medals_in_2008	percent_increase
Canada	17	34	100.00
China	94	184	95.74
Poland	12	20	66.67
Trinidad and Tobago	1	5	400.00
Korea, South	52	78	50.00
Bahamas	2	5	150.00
Nigeria	8	24	200.00
Brazil	40	75	87.50
Kenya	7	14	100.00
Belarus	17	30	76.47
Kazakhstan	8	13	62.50
Dominican Republic	1	2	100.00
Spain	27	71	162.96
Norway	7	22	214.29
Lithuania	3	5	66.67
New Zealand	6	14	133.33
Switzerland	7	11	57.14
Belgium	3	5	66.67
Georgia	4	6	50.00
Mongolia	1	4	300.00
India	1	3	200.00
Finland	2	5	150.00

Calculate the percentage growth in medal counts for each country from the 2004 to the 2008 Olympics, and list only those countries that achieved a growth of 50% or more.

```
1 ●  SELECT
2     a.country,
3     a.medals_2004,
4     IFNULL(b.medals_2008, 0) AS medals_2008,
5     ROUND(((IFNULL(b.medals_2008, 0) - a.medals_2004) / a.medals_2004) * 100,
6           2) AS percentage_increse
7   FROM
8     (SELECT
9       country, COUNT(medal) AS medals_2004
10      FROM
11        spotify_practice.summer_olympic_medal_1976_to_2008
12      WHERE
13        year = 2004
14      GROUP BY country) AS a
15    LEFT JOIN
16     (SELECT
17       country, COUNT(medal) AS medals_2008
18      FROM
19        spotify_practice.summer_olympic_medal_1976_to_2008
20      WHERE
21        year = 2008
22      GROUP BY country) AS b ON a.country = b.country
23  WHERE
24    ((IFNULL(b.medals_2008, 0) - a.medals_2004) / a.medals_2004) >= 0.5;
```

Country	medals_2004	medals_2008	percentage_increse
Canada	17	34	100.00
China	94	184	95.74
Poland	12	20	66.67
Trinidad and Tobago	1	5	400.00
Korea, South	52	78	50.00
Bahamas	2	5	150.00
Nigeria	8	24	200.00
Brazil	40	75	87.50
Kenya	7	14	100.00
Belarus	17	30	76.47
Kazakhstan	8	13	62.50
Dominican Republic	1	2	100.00
Spain	27	71	162.96
Norway	7	22	214.29
Lithuania	3	5	66.67
New Zealand	6	14	133.33
Switzerland	7	11	57.14
Belgium	3	5	66.67
Georgia	4	6	50.00
Mongolia	1	4	300.00
India	1	3	200.00
Iceland	2	5	150.00

Create a ranked leaderboard of the top 3 countries for every sport in the 2008 Olympics, categorizing their performance into 'Gold', 'Silver', and 'Bronze' zones

```

1 WITH medal_counts AS (
2   SELECT
3     sport,
4     country,
5     COUNT(*) AS total_medals,
6     RANK() OVER (PARTITION BY sport ORDER BY COUNT(*) DESC) AS rnk
7   FROM spotify_practice.summer_olympic_medal_1976_to_2008
8   WHERE year = 2008
9   GROUP BY sport, country
10 )
11
12   SELECT
13     sport,
14     country,
15     total_medals,
16     rnk AS rak,
17     CASE
18       WHEN rnk = 1 THEN 'Gold Zone'
19       WHEN rnk = 2 THEN 'Silver Zone'
20       WHEN rnk = 3 THEN 'Bronze Zone'
21       ELSE 'Out of Podium'
22     END AS medal_class
23   FROM medal_counts
24   WHERE rnk <= 3
25   ORDER BY sport, rnk;
26

```

sport	country	total_medals	rak	medal_class
Aquatics	United States	94	1	Gold Zone
Aquatics	Australia	70	2	Silver Zone
Aquatics	China	38	3	Bronze Zone
Archery	Korea, South	9	1	Gold Zone
Archery	China	7	2	Silver Zone
Archery	Italy	3	3	Bronze Zone
Archery	France	3	3	Bronze Zone
Athletics	United States	29	1	Gold Zone
Athletics	Russia	27	2	Silver Zone
Athletics	Jamaica	17	3	Bronze Zone
Badminton	China	12	1	Gold Zone
Badminton	Korea, South	6	2	Silver Zone
Badminton	Indonesia	5	3	Bronze Zone
Baseball	Korea, South	24	1	Gold Zone
Baseball	United States	24	1	Gold Zone
Baseball	Cuba	24	1	Gold Zone
Basketball	United States	24	1	Gold Zone
Basketball	Spain	12	2	Silver Zone
Basketball	Russia	12	2	Silver Zone
Basketball	Australia	12	2	Silver Zone
Basketball	Argentina	12	2	Silver Zone
Boxing	Cuba	8	1	Gold Zone
Boxing	China	4	2	Silver Zone
Boxing	Italy	3	3	Bronze Zone
Gymnas...	China	33	1	Gold Zone
Gymnas...	United States	20	2	Silver Zone
Gymnas...	Russia	9	3	Bronze Zone
Handball	France	15	1	Gold Zone
Handball	Russia	14	2	Silver Zone
Handball	Spain	14	2	Silver Zone
Handball	Korea, South	14	2	Silver Zone
Handball	Iceland	14	2	Silver Zone
Handball	Norway	14	2	Silver Zone
Hockey	Germany	17	1	Gold Zone
Hockey	Australia	17	1	Gold Zone
Hockey	Netherlands	16	3	Bronze Zone

```

1 • with medal_counts as ( select
2     sport , country , count(medal) as total_medals ,
3     rank() over(partition by sport order by count(medal) desc) as rnk
4   from spotify_practice.summer_olympic_medal_1976_to_2008
5   where year = 2008
6   group by country , sport )
7   select country , sport , total_medals , rnk as rn ,
8   case
9     when rnk = 1 then 'golden zone'
10    when rnk= 2 then 'silver zone'
11    when rnk= 3 then 'bronze zone'
12   end as medal_class
13   from medal_counts
14   where rnk <= 3
15   group by country , sport;

```

**Rank the top 3 countries by medal count for each sport in 2008, labeling them 'Golden', 'Silver', or 'Bronze' zones.**



country	sport	total_medals	rn	medal_class
United States	Aquatics	94	1	golden zone
Australia	Aquatics	70	2	silver zone
China	Aquatics	38	3	bronze zone
Korea, South	Archery	9	1	golden zone
China	Archery	7	2	silver zone
Italy	Archery	3	3	bronze zone
France	Archery	3	3	bronze zone
United States	Athletics	29	1	golden zone
Russia	Athletics	27	2	silver zone
Jamaica	Athletics	17	3	bronze zone
China	Badminton	12	1	golden zone
Korea, South	Badminton	6	2	silver zone
Indonesia	Badminton	5	3	bronze zone
Korea, South	Baseball	24	1	golden zone
United States	Baseball	24	1	golden zone
Cuba	Baseball	24	1	golden zone
United States	Basketball	24	1	golden zone
Spain	Basketball	12	2	silver zone
Russia	Basketball	12	2	silver zone
Australia	Basketball	12	2	silver zone
Argentina	Basketball	12	2	silver zone
Cuba	Boxing	8	1	golden zone
China	Boxing	4	2	silver zone
Italy	Boxing	3	3	bronze zone
France	Boxing	3	3	bronze zone

Create a comprehensive summary dashboard for the 2008 Olympics that displays: total participating countries, total sports, total medals awarded, average medals per country, the name of the top-performing country, and their specific medal count

```
1 SELECT
2   -- Total unique countries in 2008
3   (SELECT COUNT(DISTINCT country)
4    FROM spotify_practice.summer_olympic_medal_1976_to_2008
5    WHERE year = 2008) AS total_countries,
6
7   -- Total unique sports in 2008
8   (SELECT COUNT(DISTINCT sport)
9    FROM spotify_practice.summer_olympic_medal_1976_to_2008
10   WHERE year = 2008) AS total_sports,
11
12   -- Total number of medals
13   (SELECT COUNT(*)
14    FROM spotify_practice.summer_olympic_medal_1976_to_2008
15    WHERE year = 2008) AS total_medals,
16
17   -- Average medals per country
18   (SELECT ROUND(COUNT(*) / COUNT(DISTINCT country), 2)
19    FROM spotify_practice.summer_olympic_medal_1976_to_2008
20    WHERE year = 2008) AS avg_medals_per_country,
21
22   -- Top country by medal count
23   (SELECT country
24    FROM spotify_practice.summer_olympic_medal_1976_to_2008
25    WHERE year = 2008
26    GROUP BY country
27    ORDER BY COUNT(*) DESC
28    LIMIT 1) AS top_country,
29
30   -- Total medals by top country
31   (SELECT COUNT(*)
32    FROM spotify_practice.summer_olympic_medal_1976_to_2008
33    WHERE year = 2008 AND country =
34      (SELECT country
35       FROM spotify_practice.summer_olympic_medal_1976_to_2008
36       WHERE year = 2008
37       GROUP BY country
38       ORDER BY COUNT(*) DESC
39       LIMIT 1
40 ) AS top_country_medals)
```

	total_countries	total_sports	total_medals
▶	86	28	2042

avg_medals_per_country	top_country	top_country_medals
23.74	United States	315

# Identify the countries and sports where athletes had the highest 'Gold Medal Efficiency' in 2008 considering only those with at least 3 total medals.

```
1 • SELECT
2     country,
3     sport,
4     COUNT(*) AS total_medals,
5     SUM(CASE
6         WHEN medal = 'Gold' THEN 1
7         ELSE 0
8     END) AS gold_medals,
9     ROUND(SUM(CASE
10            WHEN medal = 'Gold' THEN 1
11            ELSE 0
12        END) / COUNT(*) * 100,
13        2) AS gold_efficiency_percent
14
15 FROM
16     spotify_practice.summer_olympic_medal_1976_to_2008
17 WHERE
18     year = 2008
19     GROUP BY country , sport
20     HAVING total_medals >= 3
21     ORDER BY gold_efficiency_percent DESC;
```

country	sport	total_medals	gold_medals	gold_efficiency_percent
Netherlands	Aquatics	20	20	100.00
Korea, South	Baseball	24	24	100.00
United States	Basketball	24	24	100.00
Ukraine	Fencing	4	4	100.00
Russia	Fencing	4	4	100.00
Argentina	Football	18	18	100.00
United States	Football	18	18	100.00
France	Handball	15	15	100.00
Norway	Handball	14	14	100.00
Netherlands	Hockey	16	16	100.00
Germany	Hockey	17	17	100.00
Japan	Softball	15	15	100.00
Korea, South	Taekwondo	4	4	100.00
China	Weightlif...	9	8	88.89
Germany	Equestrian	11	9	81.82
Hungary	Aquatics	16	13	81.25
Russia	Gymnastics	9	7	77.78
Belarus	Canoe / ...	8	6	75.00
France	Fencing	8	6	75.00
China	Judo	4	3	75.00
United Kingdom	Sailing	10	7	70.00
United Kingdom	Cycling	19	13	68.42
Korea, South	Archery	9	6	66.67
Russia	Boxing	3	2	66.67
United States	Equestrian	6	4	66.67

# Rank countries by their 'Gold Medal Efficiency' in 2008, considering only nations that won at least 5 total medals.

```
1 WITH country_medals AS (
2     SELECT
3         country,
4         COUNT(*) AS total_medals,
5         SUM(CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) AS gold_medals,
6         ROUND(SUM(CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) / COUNT(*) * 100, 2) AS gold_efficiency
7     FROM spotify_practice.summer_olympic_medal_1976_to_2008
8     WHERE year = 2008
9     GROUP BY country
10    HAVING total_medals >= 5
11 )
12
13 SELECT
14     RANK() OVER (ORDER BY gold_efficiency DESC) AS rn,
15     country,
16     total_medals,
17     gold_medals,
18     gold_efficiency
19     FROM country_medals;
```

rn	country	total_medals	gold_medals	gold_efficiency
1	Norway	22	16	72.73
2	Netherlands	62	40	64.52
3	Hungary	27	16	59.26
4	Ethiopia	7	4	57.14
5	Jamaica	17	9	52.94
6	Korea, South	78	41	52.56
7	Georgia	6	3	50.00
8	Japan	51	23	45.10
9	Czech Republic	7	3	42.86
9	Kenya	14	6	42.86
11	Germany	101	42	41.58
12	United Kingdom	77	31	40.26
13	China	184	74	40.22
14	Slovakia	10	4	40.00
15	United States	315	125	39.68
16	Argentina	51	20	39.22
17	Denmark	18	6	33.33
17	Korea, North	6	2	33.33
19	France	76	25	32.89
20	Canada	34	11	32.35
21	Ukraine	31	10	32.26
22	Russia	143	43	30.07
23	Poland	20	6	30.00
24	New Zealand	14	4	28.57
24	Indonesia	7	2	28.57

# Identify and label 2008 'Underdog' countries: those that won 10 or fewer medals in total but managed to make at least 40% of them Gold.

```

1 • Ⓜ WITH country_stats AS (
2     SELECT
3         country,
4         COUNT(*) AS total_medals,
5         SUM(CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) AS gold_medals,
6         ROUND(SUM(CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) / COUNT(*) * 100, 2) AS gold_efficiency
7     FROM spotify_practice.summer_olympic_medal_1976_to_2008
8     WHERE year = 2008
9     GROUP BY country
10 )
11
12     SELECT
13         country,
14         total_medals,
15         gold_medals,
16         gold_efficiency,
17         CASE
18             WHEN total_medals <= 10 AND gold_efficiency >= 40 THEN 'Underdog'
19             ELSE 'Normal'
20         END AS performance_tag
21     FROM country_stats
22     ORDER BY gold_efficiency DESC;

```

country	total_medals	gold_medals	gold_efficiency	performance_tag
Panama	1	1	100.00	Underdog
Tunisia	1	1	100.00	Underdog
Cameroon	1	1	100.00	Underdog
Norway	22	16	72.73	Normal
Netherlands	62	40	64.52	Normal
Hungary	27	16	59.26	Normal
Ethiopia	7	4	57.14	Underdog
Jamaica	17	9	52.94	Normal
Korea, South	78	41	52.56	Normal
Thailand	4	2	50.00	Underdog
Mexico	4	2	50.00	Underdog
Mongolia	4	2	50.00	Underdog
Portugal	2	1	50.00	Underdog
Dominican R...	2	1	50.00	Underdog
Iran	2	1	50.00	Underdog
Georgia	6	3	50.00	Underdog
Japan	51	23	45.10	Normal
Kenya	14	6	42.86	Normal
Czech Republic	7	3	42.86	Underdog
Germany	101	42	41.58	Normal
United Kingd...	77	31	40.26	Normal
China	184	74	40.22	Normal
Slovakia	10	4	40.00	Underdog
United States	315	125	39.68	Normal
Argentina	51	20	39.22	Normal

## Summary

- Mix of beginner (counts, filters) and advanced (CTEs, window/rank, CASE) SQL.
- Focus on business metrics: efficiency, improvement, and top/bottom performers.
- Lots of “dashboard-style” queries—perfect for BI and analytics jobs.
- Shows data storytelling skills, not just number crunching.
- Demonstrates readiness for data analyst or BI developer roles.

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Thank  
You