

Practice Writing SQL Queries using Real Dataset

Data set used :-

Link: <https://www.kaggle.com/datasets/heesoo37/120-years-of-olympic-history-athletes-and-results/data>

120 Years of Olympics History dataset from Kaggle from the user rgriffin. This way instead of using cooked up data, we shall use real data to write our SQL Queries. By having real data, it will be much easier for us to understand the data and then relate to it and write different types of queries over it.

The queries answered are:-

- Q1) How many Olympics games have been held?
- Q2) List down all Olympics games held so far?
- Q3) Mention the total no of nations who participated in each Olympics game?
- Q4) Which year saw the highest and lowest no of countries participating in Olympics?
- Q5) Which Nation or Nations have participated in all Olympic Games?
- Q6) Identity the sport which was played in all summer Olympics?
- Q7) Which sports where played only once in the Olympics?
- Q8) Fetch total no of sports played in each Olympic game?
- Q9) Fetch oldest athlete to win gold medal?
- Q10) Find the ratio of Male and Female athletes participated in all Olympic games?
- Q11) Fetch top 5 athletes who have won maximum Gold medals?
- Q12) Fetch Top 5 athletes who have won most Medals (Gold, Silver, Bronze)?
- Q13) Fetch top 5 Countries in Olympics defined by number of total medals won.
- Q14) List down total Gold, Silver and Bronze medals won by each country?
- Q15) List down Gold, Silver and Bronze medal won by each country corresponding to each Olympic Game?
- Q16) Identify which country won the most Gold most Silver and most Bronze in each Olympic Game?
- Q17) Identify which country won the most gold, most silver, most bronze medals and the most medals in each Olympic games?
- Q18) Fetch Countries Which have never Won Gold but have won Silver & Bronze?
- Q19) In which sport or event India has won the maximum medals?

Q 20) Break down all Olympic games where India won medal for Hockey and how many medals in each Olympic games?

To load the data we created a new schema:-

The screenshot shows the 'olympics_schema - Schema' dialog box. The 'Name' field is set to 'olympics_schema'. The 'Charset/Collation' is set to 'Default Charset' and 'Default Collation'. The 'Apply' button is visible at the bottom right.

SQL File 3* SQL File 4* olympics_schema - Schema x

Name: Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the underscore character for names that don't.

Refactor model, changing all references found in view, triggers, stored procedures and functions from the old schema name to the new one.

Charset/Collation: The character set and its collation selected here will be used when no other charset/collation is set for a database object (it uses the DEFAULT)

Schema

The screenshot shows the 'Apply SQL Script to Database' dialog box. The 'Review SQL Script' tab is selected, showing the SQL script: 'CREATE SCHEMA `olympics_schema` ;'. The 'Online DDL' section shows 'Algorithm: Default' and 'Lock Type: Default'. The 'Apply' button is visible at the bottom right.

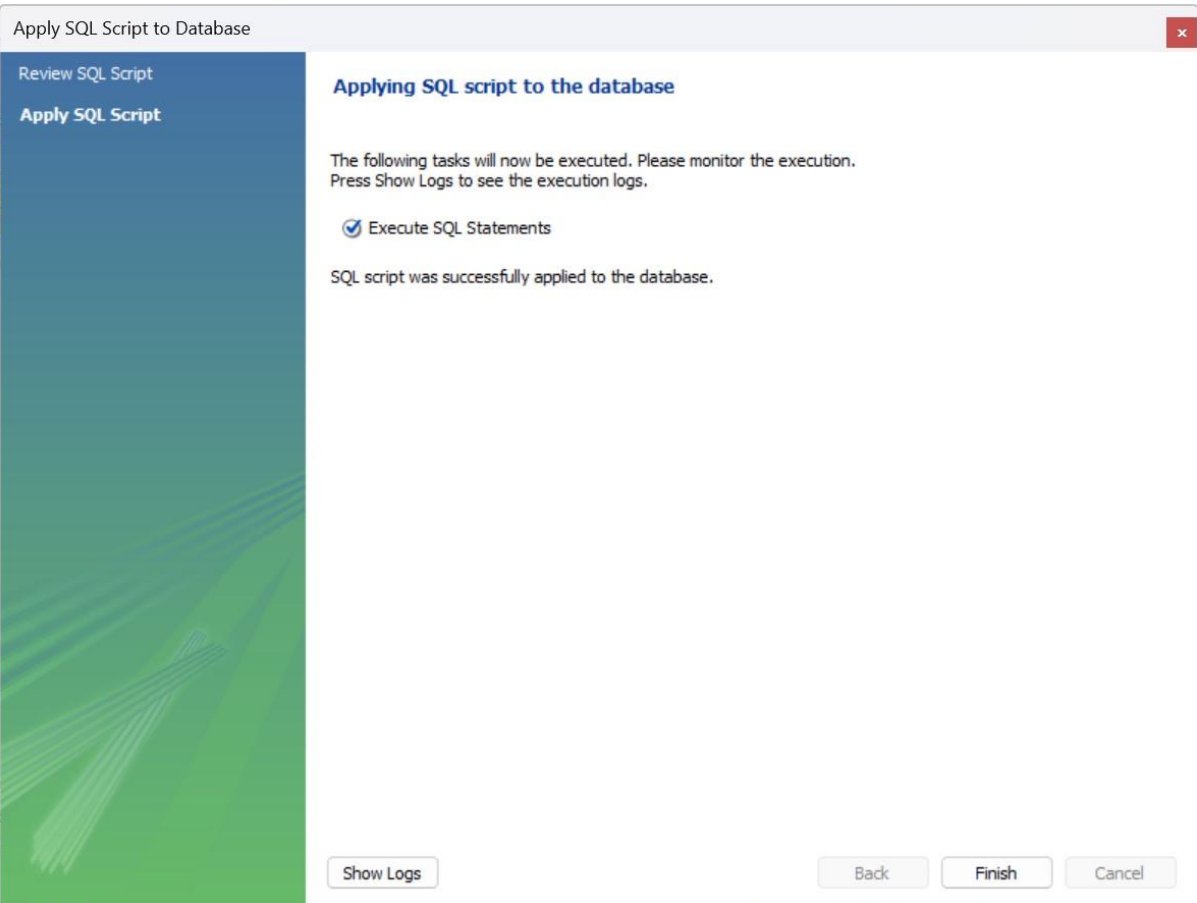
Apply SQL Script to Database x

Review SQL Script
Apply SQL Script

Review the SQL Script to be Applied on the Database

Online DDL
Algorithm: Lock Type:

```
1 CREATE SCHEMA `olympics_schema` ;  
2
```

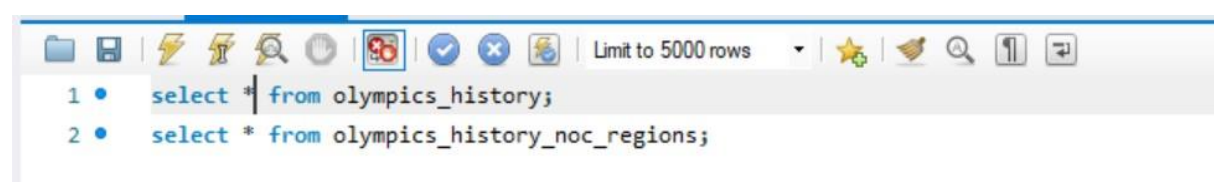


In the new schema we created two new tables:-

```
1 DROP TABLE IF EXISTS olympics_history;
2 CREATE TABLE IF NOT EXISTS olympics_history(
3     id          INT,
4     name        VARCHAR(50),
5     sex         VARCHAR(2),
6     age         VARCHAR(2),
7     height      VARCHAR(5),
8     weight      VARCHAR(5),
9     team        VARCHAR(50),
10    noc          VARCHAR(50),
11    game        VARCHAR(25),
12    year        INT,
13    season      VARCHAR(20),
14    city        VARCHAR(50),
15    sports      VARCHAR(20),
16    event       VARCHAR(20),
17    medal       VARCHAR(20)
18 );
```

```
20 DROP TABLE IF EXISTS olympics_history_noc_regions;
21 CREATE TABLE IF NOT EXISTS olympics_history_noc_regions(
22     noc          VARCHAR(50),
23     region       VARCHAR(50),
24     notes        VARCHAR(50)
25 );
```

Checking the tables created:-



The screenshot shows a database client window with a toolbar at the top containing icons for file operations, execution, and search. Below the toolbar, there are two SQL queries listed:

```
1 select * from olympics_history;
2 select * from olympics_history_noc_regions;
```

Result Grid


Filter Rows:


Export:

Wrap Cell Content:


	id	name	sex	age	height	weight	team	noc	game	year	season	city	sports	event	medal
--	----	------	-----	-----	--------	--------	------	-----	------	------	--------	------	--------	-------	-------

Result Grid




 Filter Rows:


Export:



Wrap Cell Content:



	noc	region	notes
--	-----	--------	-------

olympics history noc regions 4 

Checking the data imported into the tables:-

```

1 • select count(*) from olympics_history;
2
3

```

Result Grid



 Filter Rows:

Export: 

Wrap Cell Content: 

	count(*)
▶	271116















```
2 • select count(*) from olympics_history_noc_regions;
```

```
3
```




Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	count(*)
▶	230

Q1) How many olympics games have been held?

         | Limit to 50000 rows |     

```
1 SELECT COUNT(DISTINCT game) as total_olympic_games FROM olympics_history;
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	total_olympic_games
▶	51

Q2) List down all Olympics games held so far?

```

1  SELECT DISTINCT
2  year,
3  season,
4  city
5  FROM olympics_history
6  ORDER BY year ASC;

```

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

Q3) Mention the total no of nations who participated in each Olympics game?

```

1  SELECT game,
2  COUNT(DISTINCT noc) AS Number
3  FROM olympics_history
4  GROUP BY game
5  ORDER BY game ASC;

```

game	total_countries
1896 Summer	12
1900 Summer	31
1904 Summer	15
1906 Summer	21
1908 Summer	22
1912 Summer	29
1920 Summer	29
1924 Summer	45
1924 Winter	19
1928 Summer	46

Q4) Which year saw the highest and lowest no of countries participating in Olympics?

```

1 • CREATE TABLE game_total_countries SELECT game,
2   COUNT(DISTINCT noc) AS Number
3   FROM olympics_history
4   GROUP BY game
5   ORDER BY game ASC;
6 • WITH t1 AS (SELECT game, Number FROM game_total_countries where Number
7   = (select max(Number) from game_total_countries) ),
8   t2 AS (SELECT game, Number FROM game_total_countries where Number
9   = (select min(Number) from game_total_countries) )
10  SELECT
11     t1.game AS GAME, t1.Number AS MAX_Number, t2.game AS GAME, t2.Number AS MIN_Number
12  FROM t1 LEFT JOIN t2 ON 1=1

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	GAME	MAX_Number	GAME	MIN_Number
▶	2016 Summer	207	1896 Summer	12

Q5) Which Nation or Nations have participated in all Olympic Games?

```

1 • WITH tot_games AS
2   (SELECT count(DISTINCT game) AS total_games
3   FROM olympics_history),
4   countries AS
5   (SELECT game, olympics_history_noc_regions.region AS country
6   FROM olympics_history
7   JOIN olympics_history_noc_regions ON olympics_history_noc_regions.noc=olympics_history.noc
8   GROUP BY game, olympics_history_noc_regions.region),
9   countries_participated AS
10  (SELECT country, COUNT(1) AS total_participated_games
11  FROM countries
12  GROUP BY country)
13  SELECT countries_participated.* FROM countries_participated
14  JOIN tot_games ON tot_games.total_games = countries_participated.total_participated_games;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	country	total_participated_games
▶	France	51
	Italy	51
	Switzerland	51
	UK	51

Q6) Identity the sport which was played in all summer Olympics?

```

1  WITH t1 AS
2  (SELECT COUNT(DISTINCT game) AS total_summer_games
3   FROM olympics_history
4   WHERE season = 'Summer' ),
5  t2 AS
6  (SELECT DISTINCT sport, game FROM olympics_history
7   WHERE season = 'Summer' ),
8  t3 AS
9  (SELECT sport, COUNT(game) AS no_of_games FROM t2
10   GROUP BY sport)
11 SELECT * FROM t3
12 JOIN t1 ON t1.total_summer_games = t3.no_of_games;

```

Result Grid			
		Filter Rows:	
		Export:	
		Wrap Cell Content:	
	sport	no_of_games	total_summer_games
▶	Athletics	29	29
	Swimming	29	29
	Gymnastics	29	29
	Fencing	29	29
	Cycling	29	29

Q7) Which sports were played only once in the Olympics?

```

1  WITH t1 AS
2  (SELECT sport, COUNT(DISTINCT game) AS no_of_games
3   FROM olympics_history
4   GROUP BY sport),
5  t2 AS
6  (SELECT distinct game, sport
7   FROM olympics_history
8   ORDER BY game)
9  SELECT t1.*, t2.game
10 FROM t1
11 JOIN t2 ON t2.sport = t1.sport
12 WHERE t1.no_of_games = 1
13 ORDER BY t2.game;

```

Result Grid			
Filter Rows:		Export:	Wrap Cell Content:
	sport	no_of_games	game
▶	Basque Pelota	1	1900 Summer
	Cricket	1	1900 Summer
	Croquet	1	1900 Summer
	Roque	1	1904 Summer
	Jeu De Paume	1	1908 Summer
	Motorboating	1	1908 Summer
	Racquets	1	1908 Summer
	Military Ski Patrol	1	1924 Winter
	Aeronautics	1	1936 Summer
	Rugby Sevens	1	2016 Summer

Q8) Fetch total no of sports played in each Olympic game?

```

1 • SELECT game, COUNT(DISTINCT sport) AS no_of_sports
2     FROM olympics_history
3     GROUP BY game
4     ORDER BY no_of_sports desc;

```




Result Grid		
Filter Rows:		Export:
Wrap Cell Content:		
	game	no_of_sports
▶	2004 Summer	34
	2016 Summer	34
	2008 Summer	34
	2000 Summer	34
	2012 Summer	32
	1996 Summer	31
	1992 Summer	29
	1988 Summer	27
	1920 Summer	25
	1984 Summer	25
	1908 Summer	24
	1936 Summer	24

Q9) Fetch oldest athlete to win gold medal?

```

1 WITH t1 AS
2     (select name, sex, team, game, sport, city, medal,
3      (CASE WHEN age = 'NA' then 0 ELSE age END) AS age
4      FROM olympics_history),
5     t2 AS
6     (SELECT * ,
7      RANK() OVER (ORDER BY age DESC) AS rnk
8      FROM t1
9      WHERE medal= "gold")
10 SELECT * FROM t2
11 WHERE rnk=1;

```

Result Grid		Filter Rows:	<input type="text"/>	Export:		Wrap Cell Content:			
	name	sex	team	game	sport	city	medal	age	rnk
▶	Oscar Gomer Swahn	M	Sweden	1912 Summer	Shooting	Stockholm	Gold	64	1
	Charles Jacobus	M	United States	1904 Summer	Roque	St. Louis	Gold	64	1

Q10) Find the ratio of Male and Female athletes participated in all Olympic games?

```

1 • WITH t1 AS
2   (SELECT sex, COUNT(1) as cnt
3     FROM olympics_history
4     GROUP BY sex),
5   t2 AS
6   (SELECT * , row_number() OVER(ORDER BY cnt DESC) AS rnk
7     FROM t1),
8   max_cnt AS
9   (SELECT cnt FROM t2 WHERE rnk = 1),
10  min_cnt AS
11  (SELECT cnt FROM t2 WHERE rnk = 2)
12  SELECT CONCAT('1 : ' , ROUND(max_cnt.cnt / min_cnt.cnt , 2)) AS female_male_ratio
13  FROM min_cnt, max_cnt;
14

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ☐

	female_male_ratio
1 :	2.64

Q11) Fetch top 5 athletes who have won maximum Gold medals?

```
1 • WITH t1 AS
2   (SELECT name, COUNT(1) AS Gold_Count
3     FROM olympics_history
4     WHERE medal = 'Gold'
5     GROUP BY name
6     ORDER BY Gold_Count DESC),
7   t2 AS
8   (SELECT *, DENSE_RANK() OVER (ORDER BY Gold_Count DESC) AS rnk
9     FROM t1)
10  SELECT *
11  FROM t2
12  WHERE rnk <= 5;
```

	name	Gold_Count	rnk
▶	Michael Fred Phelps, II	23	1
	Raymond Clarence "Ray" Ewry	10	2
	Larysa Semenivna Latynina (Diriy-)	9	3
	Frederick Carlton "Carl" Lewis	9	3
	Paavo Johannes Nurmi	9	3
	Mark Andrew Spitz	9	3
	Matthew Nicholas "Matt" Biondi	8	4
	Ole Einar Bjrndalen	8	4
	Usain St. Leo Bolt	8	4
	Birgit Fischer-Schmidt	8	4
	Sawao Kato	8	4
	Jennifer Elisabeth "Jenny" Thomp...	8	4
	Donald Arthur "Don" Schollander	7	5
	Borys Anfiyanovych Shakhlin	7	5
	Nikolay Yefimovich Andrianov	7	5
	Vra slavsk (-Odloilov)	7	5
	Viktor Ivanovych Chukarin	7	5

Q12) Fetch Top 5 athletes who have won most Medals (Gold, Silver, Bronze)?

```

1 • WITH t1 AS
2   (SELECT name, team, COUNT(1) AS Medal_Count
3    FROM olympics_history
4    WHERE medal in ('Gold' , 'Silver' , 'Bronze')
5    GROUP BY name, team
6    ORDER BY Medal_Count DESC),
7   t2 AS
8   (SELECT *, DENSE_RANK() OVER (ORDER BY Medal_Count DESC) AS rnk
9    FROM t1)
10  SELECT *
11  FROM t2
12  WHERE rnk <= 5;

```

	name	team	Medal_Count	rnk
►	Michael Fred Phelps, II	United States	28	1
	Larysa Semenivna Latynina (Diriy-)	Soviet Union	18	2
	Nikolay Yefimovich Andrianov	Soviet Union	15	3
	Ole Einar Bjrndalen	Norway	13	4
	Edoardo Mangiarotti	Italy	13	4
	Takashi Ono	Japan	13	4
	Borys Anfiyanovych Shakhlin	Soviet Union	13	4
	Jennifer Elisabeth "Jenny" Thompson (-Cumpelik)"	United States	12	5
	Dara Grace Torres (-Hoffman, -Minas)	United States	12	5
	Natalie Anne Coughlin (-Hall)	United States	12	5
	Sawao Kato	Japan	12	5
	Ryan Steven Lochte	United States	12	5
	Aleksey Yuryevich Nemov	Russia	12	5
	Paavo Johannes Nurmi	Finland	12	5

Q13) Fetch top 5 Countries in Olympics defined by number of total medals won.

```
1 • WITH t1 AS
2   (SELECT team, COUNT(1) AS Medal_Count
3    FROM olympics_history
4    WHERE medal in ('Gold' , 'Silver' , 'Bronze')
5    GROUP BY team
6    ORDER BY Medal_Count DESC),
7   t2 AS
8   (SELECT *, DENSE_RANK() OVER (ORDER BY Medal_Count DESC) AS rnk
9    FROM t1)
10  SELECT *
11  FROM t2
12  WHERE rnk <= 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	team	Medal_Count	rnk
▶	United States	5040	1
	Soviet Union	2451	2
	Germany	1981	3
	Great Britain	1671	4
	France	1550	5

Q14) List down total Gold, Silver and Bronze medals won by each country?

```

1 • SELECT nr.region AS country,
2       SUM( CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) Gold,
3       SUM( CASE WHEN medal = 'Silver' THEN 1 ELSE 0 END) Silver,
4       SUM( CASE WHEN medal = 'Bronze' THEN 1 ELSE 0 END) Bronze
5 FROM olympics_history oh
6 JOIN olympics_history_noc_regions nr on nr.noc = oh.noc
7 WHERE medal <> 'NA'
8 GROUP BY country
9 ORDER BY Gold DESC, Silver DESC, Bronze DESC;

```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	country	Gold	Silver	Bronze
►	USA	2535	1596	1306
	Russia	1597	1170	1178
	Germany	1300	1194	1258
	UK	677	738	651
	Italy	575	531	531
	France	501	610	666
	Sweden	477	522	535
	Canada	462	435	447
	Hungary	432	332	371
	Norway	378	361	294
	Australia	360	450	522

Q15) List down Gold, Silver and Bronze medal won by each country corresponding to each Olympic Game?

```

1 • SELECT nr.region AS country, oh.game AS game,
2       SUM( CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) Gold,
3       SUM( CASE WHEN medal = 'Silver' THEN 1 ELSE 0 END) Silver,
4       SUM( CASE WHEN medal = 'Bronze' THEN 1 ELSE 0 END) Bronze
5 FROM olympics_history oh
6 JOIN olympics_history_noc_regions nr on nr.noc = oh.noc
7 WHERE medal <> 'NA'
8 GROUP BY game, country
9 ORDER BY game;

```

	country	game	Gold	Silver	Bronze
▶	Australia	1896 Summer	2	0	1
	Austria	1896 Summer	2	1	2
	Denmark	1896 Summer	1	2	3
	France	1896 Summer	5	4	2
	Germany	1896 Summer	25	5	2
	Greece	1896 Summer	10	18	20
	Hungary	1896 Summer	2	1	3
	Switzerland	1896 Summer	1	2	0
	UK	1896 Summer	3	3	3
	USA	1896 Summer	11	7	2
	Australia	1900 Summer	3	0	3

Q16) Identify which country won the most Gold most Silver and most Bronze in each Olympic Game?

```

1 • WITH t1 AS
2   (SELECT CONCAT(game, " - ", nr.region) AS games_country, game,
3          SUM( CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) Gold,
4          SUM( CASE WHEN medal = 'Silver' THEN 1 ELSE 0 END) Silver,
5          SUM( CASE WHEN medal = 'Bronze' THEN 1 ELSE 0 END) Bronze
6   FROM olympics_history oh
7   JOIN olympics_history_noc_regions nr on nr.noc = oh.noc
8   WHERE medal <> 'NA'
9   GROUP BY game, games_country
10  ORDER BY games_country),
11 t2 AS
12  (SELECT Gold, Silver, Bronze, game, SUBSTRING(games_country, 1, POSITION(" - " IN games_country) - 1) AS games,
13     SUBSTRING(games_country, POSITION(" - " IN games_country) + 3) AS country
14  FROM t1)

```



```

15 SELECT DISTINCT game,
16 CONCAT(FIRST_VALUE(Gold) OVER (PARTITION BY game ORDER BY Gold DESC),
17        " - ",
18        FIRST_VALUE(country) OVER (PARTITION BY game ORDER BY Gold DESC)) as Gold,
19 CONCAT(FIRST_VALUE(Silver) OVER (PARTITION BY game ORDER BY Silver DESC),
20        " - ",
21        FIRST_VALUE(country) OVER (PARTITION BY game ORDER BY Silver DESC)) as Silver,
22 CONCAT(FIRST_VALUE(Bronze ) OVER (PARTITION BY game ORDER BY Bronze DESC),
23        " - ",
24        FIRST_VALUE(country) OVER (PARTITION BY game ORDER BY Bronze DESC)) as Bronze
25 FROM t2
26 ORDER BY game;

```

	game	Gold	Silver	Bronze
▶	1896 Summer	25 - Germany	18 - Greece	20 - Greece
	1900 Summer	59 - UK	101 - France	82 - France
	1904 Summer	126 - USA	140 - USA	124 - USA
	1906 Summer	24 - Greece	48 - Greece	30 - Greece
	1908 Summer	146 - UK	131 - UK	90 - UK
	1912 Summer	103 - Sweden	64 - UK	59 - UK
	1920 Summer	106 - USA	71 - France	66 - Belgium
	1924 Summer	92 - USA	51 - France	48 - USA
	1924 Winter	16 - UK	10 - USA	11 - UK
	1928 Summer	46 - USA	29 - Netherlands	41 - Germany
	1928 Winter	12 - Canada	13 - Sweden	12 - Switzerl...
	1932 Summer	75 - USA	45 - USA	57 - USA
	1932 Winter	14 - Canada	19 - USA	14 - Germany
	1936 Summer	92 - Germany	70 - Germany	61 - Germany
	1936 Winter	12 - UK	13 - Canada	11 - USA
	1948 Summer	80 - USA	47 - UK	37 - USA

Q17) Identify which country won the most gold, most silver, most bronze medals and the most medals in each Olympic games.?

```

1  WITH t1 AS
2  (SELECT CONCAT(game, " - ", nr.region) AS games_country, game,
3         SUM( CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) Gold,
4         SUM( CASE WHEN medal = 'Silver' THEN 1 ELSE 0 END) Silver,
5         SUM( CASE WHEN medal = 'Bronze' THEN 1 ELSE 0 END) Bronze,
6         SUM( CASE WHEN medal = 'Bronze' or 'Silver' or 'Bronze' THEN 1 ELSE 0 END) Max_medal
7         FROM olympics_history oh
8         JOIN olympics_history_noc_regions nr ON nr.noc = oh.noc
9         WHERE medal <> 'NA'
10        GROUP BY game, games_country
11        ORDER BY games_country),
12  t2 AS
13  (SELECT Gold, Silver, Bronze, Max_medal, game, SUBSTRING(games_country, 1, POSITION(" - " IN games_country) - 1) AS games,
14         SUBSTRING(games_country, POSITION(" - " IN games_country) + 3) AS country
15         FROM t1)

```

```

16 SELECT DISTINCT game,
17    CONCAT(FIRST_VALUE(Gold) OVER (PARTITION BY game ORDER BY Gold DESC),
18           " - ",
19           FIRST_VALUE(country) OVER (PARTITION BY game ORDER BY Gold DESC)) as Gold,
20    CONCAT(FIRST_VALUE(Silver) OVER (PARTITION BY game ORDER BY Silver DESC),
21           " - ",
22           FIRST_VALUE(country) OVER (PARTITION BY game ORDER BY Silver DESC)) as Silver,
23    CONCAT(FIRST_VALUE(Bronze ) OVER (PARTITION BY game ORDER BY Bronze DESC),
24           " - ",
25           FIRST_VALUE(country) OVER (PARTITION BY game ORDER BY Bronze DESC)) as Bronze,
26    CONCAT(FIRST_VALUE(Max_medal) OVER (PARTITION BY game ORDER BY Max_medal DESC),
27           " - ",
28           FIRST_VALUE(country) OVER (PARTITION BY game ORDER BY Max_medal DESC)) as Max_medal
29 FROM t2
30 ORDER BY game;

```

	game	Gold	Silver	Bronze	Max_medal
►	1896 Summer	25 - Germany	18 - Greece	20 - Greece	20 - Greece
	1900 Summer	59 - UK	101 - France	82 - France	82 - France
	1904 Summer	126 - USA	140 - USA	124 - USA	124 - USA
	1906 Summer	24 - Greece	48 - Greece	30 - Greece	30 - Greece
	1908 Summer	146 - UK	131 - UK	90 - UK	90 - UK
	1912 Summer	103 - Sweden	64 - UK	59 - UK	59 - UK
	1920 Summer	106 - USA	71 - France	66 - Belgium	66 - Belgium
	1924 Summer	92 - USA	51 - France	48 - USA	48 - USA
	1924 Winter	16 - UK	10 - USA	11 - UK	11 - UK
	1928 Summer	46 - USA	29 - Netherlands	41 - Germany	41 - Germany
	1928 Winter	12 - Canada	13 - Sweden	12 - Switzerl...	12 - Switzerl...
	1932 Summer	75 - USA	45 - USA	57 - USA	57 - USA
	1932 Winter	14 - Canada	19 - USA	14 - Germany	14 - Germany
	1936 Summer	92 - Germany	70 - Germany	61 - Germany	61 - Germany
	1936 Winter	12 - UK	13 - Canada	11 - USA	11 - USA
	1948 Summer	80 - USA	42 - UK	32 - USA	32 - USA

Q18) Fetch Countries Which have never Won Gold but have won Silver & Bronze?

```

1 • WITH t1 AS
2   (SELECT nr.region AS country, oh.game AS game,
3     SUM( CASE WHEN medal = 'Gold' THEN 1 ELSE 0 END) Gold,
4     SUM( CASE WHEN medal = 'Silver' THEN 1 ELSE 0 END) Silver,
5     SUM( CASE WHEN medal = 'Bronze' THEN 1 ELSE 0 END) Bronze
6   FROM olympics_history oh
7   JOIN olympics_history_noc_regions nr ON nr.noc = oh.noc
8   WHERE medal <> 'NA'
9   GROUP BY game, country
10  ORDER BY game)
11  SELECT * FROM t1
12  WHERE Gold = 0;

```

country	game	Gold	Silver	Bronze
Austria	1900 Summer	0	3	3
Colombia	1900 Summer	0	1	0
Czech Republic	1900 Summer	0	1	2
India	1900 Summer	0	2	0
Mexico	1900 Summer	0	0	3
Norway	1900 Summer	0	6	3
Australia	1904 Summer	0	3	1

Q19) In which sport or event India has won the maximum medals?

```

1 • WITH t1 AS
2   (SELECT sport, COUNT(1) AS total_medals
3   FROM olympics_history
4   WHERE medal <> 'NA'
5   AND team = 'India'
6   GROUP BY sport
7   ORDER BY total_medals DESC),
8   t2 AS
9   (SELECT *, RANK() OVER(ORDER BY total_medals DESC) AS rnk
10  FROM t1)
11  SELECT sport, total_medals
12  FROM t2
13  WHERE rnk = 1;

```

sport	total_medals
Hockey	173

Q 20) Break down all Olympic games where India won medal for Hockey and how many medals in each Olympic games?

```
1 • SELECT game, team, sport, COUNT(1) AS total_medals
2 FROM olympics_history
3 WHERE medal <> 'NA'
4 AND team = 'India'
5 AND sport = 'Hockey'
6 GROUP BY sport, team, game
7 ORDER BY total_medals DESC;
```

Result Grid					Filter Rows:	Export:	Wrap Cell Content:
	game	team	sport	total_medals			
▶	1948 Summer	India	Hockey	20			
	1936 Summer	India	Hockey	19			
	1956 Summer	India	Hockey	17			
	1980 Summer	India	Hockey	16			
	1968 Summer	India	Hockey	16			
	1964 Summer	India	Hockey	15			
	1932 Summer	India	Hockey	15			
	1928 Summer	India	Hockey	14			
	1972 Summer	India	Hockey	14			
	1952 Summer	India	Hockey	14			
	1960 Summer	India	Hockey	13			