

SUM and COUNT

Language:

English • 日本語 • 中文

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World Country Profile: Aggregate functions

This tutorial is about aggregate functions such as COUNT, SUM and AVG. An aggregate function takes many values and delivers just one value. For example the function SUM would aggregate the values 2, 4 and 5 to deliver the single value 11.

name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
Albania	Europe	28748	2831741	12960000000
Algeria	Africa	2381741	37100000	188681000000
Andorra	Europe	468	78115	3712000000
Angola	Africa	1246700	20609294	100990000000
...				

You might want to look at these examples first

Using SUM, Count, MAX, DISTINCT and ORDER BY.

Total world population

1. 😊

Show the total **population** of the world.

world(name, continent, area, population, gdp)

SELECT SUM(population) AS total_population FROM world;

Submit SQL

Restore default

result

List of continents

2. 😊

List all the continents - just once each.

```
SELECT DISTINCT continent FROM world;
```

Submit SQL

Restore default

result

GDP of Africa

3. 😊

Give the total GDP of Africa

```
SELECT SUM(gdp) AS total_gdp FROM world
WHERE continent = 'Africa';
```

Submit SQLRestore default

result

Count the big countries

4. 😊

How many countries have an **area** of at least 1000000

```
SELECT COUNT(name) AS num_of_countries FROM world
WHERE area >= 1000000;
```

Submit SQLRestore default

result

Baltic states population

5. 😊

What is the total **population** of ('Estonia', 'Latvia', 'Lithuania')

```
SELECT SUM(population) AS total_population FROM world
WHERE name IN ('Estonia', 'Latvia', 'Lithuania');
```

Submit SQL

Restore default

result

Using GROUP BY and HAVING

You may want to look at these examples: [Using GROUP BY and HAVING.](#)

Counting the countries of each continent

6. 😊

For each **continent** show the **continent** and number of countries.

```
SELECT continent, COUNT(name) AS num_of_countries
FROM world
GROUP BY continent;
```

Submit SQL

Restore default

Correct answer

continent	num_of_countr..
Africa	53
Asia	47
Caribbean	11
Eurasia	2
Europe	44
North America	11
Oceania	14
South America	13

Counting big countries in each continent

7. 😊

For each **continent** show the **continent** and number of countries with populations of at least 10 million.

```
SELECT continent, COUNT(name) AS num_of_countries FROM world
WHERE population >= 10000000
GROUP BY continent;
```

Submit SQL

Restore default

Correct answer

continent	num_of_countr..
Africa	29
Asia	26
Caribbean	2
Eurasia	1

Europe	14
North America	4
Oceania	1
South America	8

Counting big continents

8. 😊

List the continents that **have** a total population of at least 100 million.

```
SELECT continent FROM world
GROUP BY continent
HAVING SUM(population) > 100000000
```

Submit SQL

Restore default

Correct answer

continent
Africa
Asia
Eurasia
Europe
North America
South America

SUM and COUNT Quiz

The nobel table can be used to practice more SUM and COUNT functions.

The next tutorial looks at the Table Tennis database. It shows how queries may use records from two related tables.

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This page was last edited on 24 March 2020, at 10:43.