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)
FROM world
```

Submit SQL   restore default

Correct answer

SUM(population)
7118632738

List of continents

2.

List all the continents - just once each.

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

Submit SQL   restore default

Correct answer

continent
Africa
Asia
Caribbean
Eurasia
Europe
North America
Oceania

GDP of Africa

3.

Give the total GDP of Africa

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

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Correct answer

SUM(gdp)
1811788000000

Count the big countries

4.

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

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

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Correct answer

COUNT(name)
29

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

Correct answer

total_population
6251750

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)
FROM world
GROUP BY continent;
```

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Correct answer

continent	COUNT(name)
Africa	53
Asia	47
Caribbean	11
Eurasia	2
Europe	44
North America	11
Oceania	14

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)
FROM world
WHERE population >= 10000000
GROUP BY continent;
```

Submit SQL   restore default

Correct answer

continent	COUNT(name)
Africa	29
Asia	26
Caribbean	2
Eurasia	1
Europe	14
North America	4
Oceania	1

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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