## **SUM and COUNT**

<u>Language:</u> <u>English</u>・<u>日本語</u>・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	

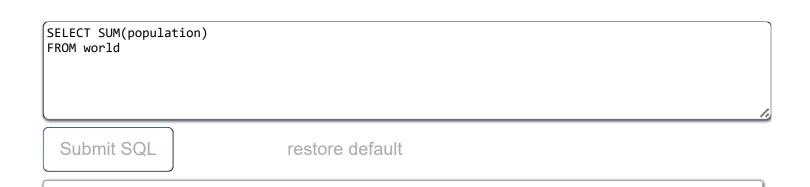
### You might want to look at these examples first

## **Total world population**

1.

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

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



## **Correct answer**

SUM(populatio..

7830500887

## List of continents

2.

List all the continents - just once each.

SELECT DISTINCT(continent)
FROM world

Submit SQL

restore default

## **Correct answer**

continent		
Asia		
Europe		
Africa		
North America		
South America		
Insular Oceania		

#### **GDP** of Africa

3.

Give the total GDP of Africa

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

restore default

## **Correct answer**

SUM(gdp)

2994342000000

# **Count the big countries**

4.

How many countries have an  ${f area}$  of at least 1000000

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

Submit SQL

restore default

## **Correct answer**

COUNT(name)

28

## **Baltic states population**

5.

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

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

restore default

#### **Correct answer**

SUM(populatio..

6115449

## **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);
```

restore default

## **Correct answer**

continent	COUNT(name)		
Africa	54		
Asia	47		
Europe	44		
Insular Oceania	14		
North America	23		
South America	12		

# **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);
```

restore default

## **Correct answer**

continent	COUNT(name)		
Africa	32		
Asia	28		
Europe	16		
Insular Oceania	2		
North America	7		
South America	8		

## **Counting big continents**

8.

List the continents that  $\boldsymbol{have}$  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**

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Africa

Asia

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.



Channel Ask questions of your business data in English and use AI to generate SQL.

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