### **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  $\boldsymbol{population}$  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**

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**

Give the total GDP of Africa

select sum(gdp) from world where continent= 'africa';

Submit SQL

restore default

# **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;

Submit SQL

restore default

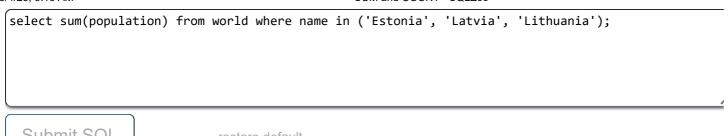
# **Correct answer**

count(name)

# **Baltic states population**

5.

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



Submit SQL

restore default

### **Correct answer**

sum(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

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

select continent, count(name) from world group by continent;

Submit SQL

restore default

## **Correct answer**

| continent     | count(name) |  |  |
|---------------|-------------|--|--|
| Africa        | 53          |  |  |
| Asia          | 47          |  |  |
| Caribbean     | 11          |  |  |
| Eurasia       | 2           |  |  |
| Europe        | 44          |  |  |
| North America | 11          |  |  |
| Oceania       | 14          |  |  |
| ~ .1 .        | 1.0         |  |  |

# **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**

|  |  | en |  |
|--|--|----|--|
|  |  |    |  |
|  |  |    |  |

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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