

SUM and COUNT

From SQLZOO

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

Exercises

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

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(populatio..
```

```
7094523310
```

2.

List all the continents - just once each.

```
select distinct(continent) from world
```

Submit SQL

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Angola	Africa	1246700	20609294	100990000000
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Correct answer

continent

Africa
Asia
Caribbean
Eurasia
Europe
North America
Oceania
South America

3.

Give the total GDP of Africa

```
select sum(gdp) from world where  
continent="Africa"
```

Submit SQL

Restore default

Correct answer

sum(gdp)

1776575000000

4.

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

```
select count(name) from world where area  
>=1000000
```

Submit SQL

Restore default

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Correct answer

count(name)

28

5. What is the total **population** of ('France','Germany','Spain')

```
select sum(population) from world where name  
in ("France","Germany","Spain")
```

Submit SQL

Restore default

Correct answer

sum(populatio..

193231700

Using GROUP BY and HAVING.

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

name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
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...				

```
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
South America	13

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	28
Asia	26
Caribbean	2
Eurasia	1
Europe	14
North America	4
Oceania	1
South America	8

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Angola	Africa	1246700	20609294	100990000000

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

Clear your results

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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