SUM and COUNT

1.

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

**SELECT SUM(population)
FROM world;**

2.

List all the continents - just once each.

select distinct continent from world;

3.

Give the total GDP of Africa

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

4.

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

**select count(name) from world
where area > 1000000;**

5.

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

**select sum(population) from world
where name in ('Estonia', 'Latvia', 'Lithuania');**

6.

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

select continent, count(name) from world
group by 1;

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 1;

8.

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

select continent
from world
group by 1
having sum(population)>100000000;

QUIZ

1. Select the statement that shows the sum of population of all countries in 'Europe'

```
SELECT SUM(population) FROM bbc WHERE region = 'Europe'
```

2. Select the statement that shows the number of countries with population smaller than 150000

```
SELECT COUNT(name) FROM bbc WHERE population < 150000
```

3. Select the list of core SQL aggregate functions

AVG(), COUNT(), MAX(), MIN(), SUM()

4. Select the result that would be obtained from the following code:

```
SELECT  region,  SUM (area)

FROM  bbc

WHERE   SUM (area) > 15000000

GROUP   BY  region
```

No result due to invalid use of the WHERE function

5. Select the statement that shows the average population of 'Poland', 'Germany' and 'Denmark'

```
SELECT AVG(population) FROM bbc WHERE name IN ('Poland', 'Germany', 'Denmark')
```

6. Select the statement that shows the medium population density of each region

```
SELECT region, SUM(population)/SUM(area) AS density FROM bbc GROUP BY region
```

7. Select the statement that shows the name and population density of the country with the largest population

```
SELECT name, population/area AS density FROM bbc WHERE population = (SELECT MAX(population) FROM bbc)
```

8. Pick the result that would be obtained from the following code:

```
SELECT region, SUM(area)
  FROM bbc
 GROUP BY region
 HAVING SUM(area)<= 20000000
```

Americas	**732240**
Middle East	**13403102**
South America	**17740392**
South Asia	**9437710**