S3 – GROUP BY - AVG -SUM

# What you will know:

GROUP BY – AVG - SUM

# Instructions: Open [this online SQL editor](https://www.w3schools.com/sql/trysql.asp?filename=trysql_op_in)

**Exercise 1: Databases on W3school**

Each product of **Products** table has a **category ID** (*this ID refers to an element in the* ***Categories*** *table*)

## Q1 : Write a SQL query to display the **number of products per category**.

Expected columns:

CategoryID Number of items

**Your query:**

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## Q2: Write a SQL query to display the **average price** of items per category ID.

Expected columns:

CategoryID Average items price

**Your query:**

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## Q3: Write a SQL query to display the **total of the price** of all items per category ID.

Expected columns:

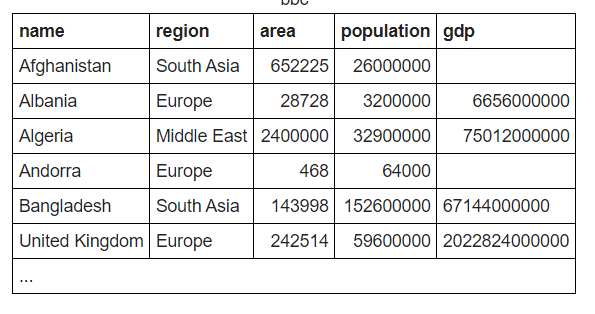
Category ID Total items price

**Your query:**

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**Exercise 2: World Table**



**Q1:** write a statement to sum of population of all countries.

**Your query: SELECT SUM ( population ) AS [ countryPopulation ] , name FROM worldTable GROUP BY name;**

**Q2** : write a statement to sum of population of all countries in «South Asia»

**Your query: SELECT SUM ( population ) AS [ countryPopulation ] , name,region FROM worldTable GROUP BY name WHERE region = “South Asia”;**

**Q3:** write a statement to count GDP is null

**Your query: SELECT COUNT ( gdp ) AS [ nullGdp ] FROM worldTable where gdp = null;**

**Q4**: Write a statemet to showthe number of countries in each continent and group by continents:

**Your query: SELECT COUNT ( name ) AS [ numberOfCountry ] , region FROM worldTable GROUP BY region;**

**Q5** : write a statement to show the total population in each continent, group by continents :

**Your query: SELECT SUM ( population ) AS [ numberOfCountry ] , region FROM worldTable GROUP BY region;**

**Q6 :** For each relevant continent show the number of countries that has a population of at least 200000000.

**Your query: SELECT SUM ( population ) AS [ numberOfCountry ] , region FROM worldTable GROUP BY region where numberOfCountry >= 200000000;**

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