
SUM, COUNT, AVG, MAX, MIN, GROUP BY etc...

1. What is the population of the world? Give a title to the column.

(1 row(s) affected)

2. Which country has the largest population in the whole world? Display its population and its percentage in relation to total population of all countries in the world. Do not display the country's name

(1 row(s) affected)

3. Which smallest population of any country in the world? The population must be greater than 50. Display the smallest population and its percentage in compared to the total population of the world. Do not indicate the country name.

Smallest population percentage
----54 0.00%

(1 row(s) affected)

4. Display the name of every region.

Region _____ Africa Antarctic Region Arctic Region Asia Bosnia and Herzegovina, Europe Central America and the Caribbean Commonwealth of Independent States Europe Middle East North America Oceania South America South America, Central America and the Caribbean Southeast Asia World (15 row(s) affected)

5. What is the average population of all European counties? Give a title to the returned column.

(1 row(s) affected)

6. Display the name of each region, and the amount of countries in each region.

Region	Number of Countries
Africa	59
Antarctic Region	5
Arctic Region	4
Asia	14
Bosnia and Herzegovina, Europe	1
Central America and the Caribbean	31
Commonwealth of Independent States	11
Europe	43
Middle East	17
North America	5
Oceania	34
South America	12
South America, Central America and the Caribbean	2
Southeast Asia	18
World	5

(15 row(s) affected)

7. Display the name of each region with countries whose population is greater than 500,000,000 people, and the number of countries who pass this condition for each region respectively.

Region	Number of countries
Asia Europe Africa Southeast Asia North America South America Middle East	6 5 4 4 2 1

(7 row(s) affected)

8. Display the name of each region and its respective population in millions with two significant digits of precision.

Region	Population
Asia	2963.03
Africa	793.38
Europe	580.59
Southeast Asia	561.43
North America	407.26
South America	283.28
Middle East	180.28
Commonwealth of Independent States	137.20
Central America and the Caribbean	73.19
South America, Central America and the Caribbean	63.23
Oceania	30.80
Bosnia and Herzegovina, Europe	3.84
World	2.30
Arctic Region	0.34
Antarctic Region	0.00

(15 row(s) affected)

9. Display in the millions the total population and the total GDP of Europe. Give a title to each of the columns.

10. Display in the millions the total population, the total GDP, and the name of each region. Give a title to each column, and sort the result by decreasing GDP.

Region	Total	Population	Total GDP
Asia		2963.03	11400240.00
North America		407.26	10844874.00
Europe		580.59	9510150.00
Southeast Asia		561.43	2353950.00
South America		283.28	1929040.00
Africa		793.38	1428507.90
Middle East		180.28	974879.00
Oceania		30.80	509785.50
South America, Central America and the Caribbean		63.23	427900.00
Commonwealth of Independent States		137.20	348000.00
Central America and the Caribbean		73.19	293211.00
World		2.30	16318.00
Arctic Region		0.34	7365.00
Bosnia and Herzegovina, Europe		3.84	6200.00
Antarctic Region		0.00	0.00

(15 row(s) affected)

11. Display the total number of regions in the world. Give the column a name.

Number of regions
----15

12. Display the name, total population, total area, and GDP of each region. Give names to the columns.

Region	population	total area	GDP
Asia	2963031109.0	33975255.00	11400240000000
Africa	793382933.00	30186470.00	1428507900000
Europe	580590831.00	5677526.00	9510150000005
Southeast Asia	561430334.00	4532755.00	2353950000000
North America	407263424.00	21578082.00	10844874000000
South America	283278882.00	15762328.00	1929040000000
Middle East	180281538.00	5383484.00	974879000000
Commonwealth of Independent States	137195413.00	5025643.00	348000000000
Central America and the Caribbean	73193129.00	758673.00	293211000000
South America, Central America and the Carib	63228304.00	2050960.00	427900000000
Oceania	30804740.00	8510910.00	509785500000
Bosnia and Herzegovina, Europe	3835777.00	51129.00	620000000
World	2301645.00	8472.00	16318000000
Arctic Region	335090.00	2341022.00	7365000000
Antarctic Region	0.00	14012318.00	0

(15 row(s) affected)

13. Display the name and population of each region which exceeds 400,000,000 people. They should be sorted by descending population.

Region	Population	
Asia Africa Europe Southeast Asia North America	2963.03 793.38 580.59 561.43 407.26	M M M

(5 row(s) affected)

14. Display the region name and average population of each region with countries whose total population is greater than 800,000,000 people. Exclude China from the average. Results should be sorted by descending population.

Region	Average	Population
Asia North America	130.86 81.45	
(2 row(s) affect	cted)	

15. Display the the name of each region and average population of countries that make up those regions (in millions). Sort by population in descending order.

Region	population
Asia	211.65
North America	81.45
South America, Central America and the Caribbean	31.61
Southeast Asia	31.19
South America	23.61
Europe	13.50
Africa	13.45
Commonwealth of Independent States	12.47
Middle East	10.60
Bosnia and Herzegovina, Europe	3.84
Central America and the Caribbean	2.36
Oceania	0.91
World	0.46
Arctic Region	0.08
Antarctic Region	0.00
	Max
	=====
	211.65

16. Display the name, population, area of each country as well as the total population, the global area and the average population, all countries combined.

name	population	
Afghanistan Albania Algeria	25838797 3490435 31193917	652000 28748
Zambia Zimbabwe	9582418 11342521	
	sum	
	6080153149	
		sum
		149855027
	avg ========	======
	23295605.9348	365

(264 row(s) affected)

17. Display the name, population, area of each country and total population, total area and average population by region.

Region	pays	population	area
Africa Africa	Algeria Zimbabwe	31193917 11342521	
•••		Sum	
		793382933	Sum
		avg	30186470
	1	===== 3447168.355932	2
•••			
Region	pays	population	area
World World World World World	British Indian Ocean Territory Cape Verde Clipperton Island Mauritius Reunion	0 401343 0 1179368 720934	7
		sum =======	
		2301645	Sum
			8472
		vg =====	
		===== 60329.000000	

(306 row(s) affected)

18. From the titles table, display the average price per book type. With the COMPUTE clause, then display the largest among them.

type	average	type
business mod_cook popular_comp psychology trad_cook UNDECIDED	13.7300 11.4900 21.4750 13.5040 15.9633 NULL	
	max ====================================	

(7 row(s) affected)

Warning: Null value is eliminated by an aggregate or other SET operation.

19. Your client wants a list showing all books in the titles table. The records must be sorted alphabetically according to the title_id column with the advance payments made for each and the price of each book. He also wants to know the average price of a book and the total amount of advance payments made for each book.

title_id	price	advance
BU1032	19.9900	5000.0000
BU1111		5000.0000
BU2075		10125.0000
BU7832	19.9900	5000.0000
MC2222		.0000
MC3021	2.9900	15000.0000
MC3026	NULL	NULL
PC1035	22.9500	7000.0000
PC8888	20.0000	8000.0000
PC9999	NULL	NULL
PS1372	21.5900	7000.0000
PS2091	10.9500	2275.0000
PS2106	7.0000	6000.0000
PS3333	19.9900	2000.0000
PS7777	7.9900	4000.0000
TC3218	20.9500	7000.0000
TC4203	11.9500	4000.0000
TC7777	14.9900	8000.0000
	avg	
	14.766250	
	14./00230	CIIM
		sum
		95400.0000
(19 row(s) affected)	55400.0000
, 23 25 11 (-, =======,	

19. Using the sales table, list each sold title with the total units sold. Call the total column "Books sold"

Now sort the result by the number of books sold. The best seller in on top.

Now apply a HAVING clause to limit the list to sales over 30 units.

Find and display the grand total of books sold. Use the COMPUTE clause.

(6 row(s) affected)

20. In the titles table, display only publishers with an identification number greater than 0800 who have been paid more than \$ 15,000 in advance payments and whose average book price is less than \$ 20 .

pub_id	Sum of Advances	Average Price
1389	30000.0000	18.9760
0877	41000.0000	15.4100