Tidyverse Exercise

Kerui Cao 10/1/2019

How many continents are included in the data set?

So the numbers of countries is 5.

How many countrys are included? How many countries per continent?

There are 142 contries included. So 28.4 contries per continents. More specific and accurate infomation is listed below"

Table 1: Number of countries included for each cintinents

continent	Num_of_contries
Oceania	2
Americas	25
Europe	30
Asia	33
Africa	52

Using the gapminder data, produce a report showing the continents in the dataset, total population per continent, and GDP per capita. Be sure that the table is properly labeled and suitable for inclusion in a printed report.

Table 2: Total GDP for each continents 1952-1967

19	52	19)57	19	062	19	067
continent	tol_GDP	continent	tol_GDP	continent	tol_GDP	continent	tol_GDP
Oceania Africa Asia Europe Americas	108.32 311.61 1125.14 2549.16 2943.46	Oceania Africa Asia Europe Americas	133.65 382.69 1559.85 3299.68 3520.44	Oceania Africa Asia Europe Americas	164.67 456.80 1984.50 4169.53 4228.85	Oceania Africa Asia Europe Americas	211.92 595.08 2793.40 5200.99 5446.68

Table 3: Total GDP for each continents 1972-1987

19	072	19)77	19	082	19	087
continent	tol_GDP	continent	tol_GDP	continent	tol_GDP	continent	tol_GDP
Oceania Africa Asia Europe Americas	268.22 783.73 4104.75 6560.74 6703.97	Oceania Africa Asia Europe Americas	309.42 972.16 5273.48 7661.01 8102.13	Oceania Africa Asia Europe Americas	352.35 1146.14 6416.15 8384.51 9082.87	Oceania Africa Asia Europe Americas	418.90 1253.60 7978.90 9495.23 10986.20

Table 4: Total GDP for each continents 1992-2007

19	92	19	97	20	002	20	007
continent	tol_GDP	continent	tol_GDP	continent	tol_GDP	continent	tol_GDP
Oceania Africa Asia Europe Americas	472.64 1365.36 10134.33 10281.08 12247.48	Oceania Africa Europe Asia Americas	578.61 1561.22 11508.23 12790.74 14567.35	Oceania Africa Europe Asia Americas	690.48 1835.83 13093.49 15115.40 16531.22	Oceania Africa Europe Americas Asia	807.32 2380.48 14795.49 19418.05 20707.94

Produce a well-labeled table that summarizes GDP per capita for the countries in each continent, contrasting the years 1952 and 2007.

Table 5: Summary for GDP per Capita in 1952

continent	Ave_GDP_Capita	Max_GDP_Capita	Min_GDP_Capita	var_GDP_Capita
Africa	1252.572	4725.296	298.8462	966194.9
Americas	4079.063	13990.482	1397.7171	9010368.1
Asia	5195.484	108382.353	331.0000	347259157.6
Europe	5661.057	14734.233	973.5332	9697372.8
Oceania	10298.086	10556.576	10039.5956	133634.2

Table 6: Summary for GDP per Capita in 2007

continent	Ave_GDP_Capita	Max_GDP_Capita	Min_GDP_Capita	var_GDP_Capita
Africa	3089.033	13206.48	277.5519	13091107
Americas	11003.032	42951.65	1201.6372	94346435
Asia	12473.027	47306.99	944.0000	200362251
Europe	25054.482	49357.19	5937.0295	139248020
Oceania	29810.188	34435.37	25185.0091	42784565

Product a plot that summarizes the same data as the table. There should be two plots per continent.

[1] "To be asked"

Which countries in the dataset have had periods of negative population growth?

Table 7: Countries had periods of negative population growth

Afghanistan	Guinea-Bissau	Liberia	Serbia
Cambodia	Hungary	Montenegro	Somalia
Croatia	Kuwait	Portugal	South Africa
Czech Republic	Lebanon	Romania	Switzerland
Equatorial Guinea	Lesotho	Rwanda	West Bank and Gaza