Report for ForestQuery into Global Deforestation, 1990 to 2016

ForestQuery is on a mission to combat deforestation around the world and to raise awareness about this topic and its impact on the environment. The data analysis team at ForestQuery has obtained data from the World Bank that includes forest area and total land area by country and year from 1990 to 2016, as well as a table of countries and the regions to which they belong.

The data analysis team has used SQL to bring these tables together and to query them in an effort to find areas of concern as well as areas that present an opportunity to learn from successes.

1. GLOBAL SITUATION

According to the World Bank, the total forest area of the world was <u>82016472.036028</u> in 1990. As of 2016, the most recent year for which data was available, that number had fallen to 79825433.9505107, a loss of 2191038.08551738, or 2.67146102621301%.

The forest area lost over this time period is slightly more than the entire land area of <u>China</u> listed for the year 2016 (which is 2098635 km²).

2. REGIONAL OUTLOOK

In 2016, the percent o	f the total land are	ea of the world designated	d as forest was
	The region with	the highest relative fores	tation
was	, with	%, and th	e region with the lowest
relative forestation wa	s	, with	% forestation.
In 1990, the percent o	f the total land are	ea of the world designated	l as forest was
•		•	
	The region with	the highest relative fores	tation
was	, with	%, and th	e region with the lowest
relative forestation wa	s	, with	% forestation.

Region	1990 F	orest Percentage	2016 For	est Percentage
The only regions of the	world that decre	ased in percent fore	est area from 19	390 to 2016 were
(·	% to		%). All other regions
two aforementioned reg this time period from 3. COUNTRY-LI		% to		orid decreased over
		\(\tau_{-1}\)		
A. SUCCESS S	TORIES			
There is one particularly	bright spot in th	ne data at the countr	y level,	This
country actually increase be interesting to study we data higher. The country the than the figure for	what has change y with the next la , but it only sa	d in this country ove argest increase in for w an increase of	er this time to d rest area from	rive this figure in the 1990 to 2016 was
8	and	are of co	urse very large	countries in total
land area, so when we laren't surprised to find a	ook at the larges	st <i>percent</i> change in	forest area fro	m 1990 to 2016, we

B. LARGEST CONCERNS

Which countries are seeing deforestation to the largest degree? We can answer this question in two ways. First, we can look at the absolute square kilometer decrease in forest area from 1990 to 2016. The following 3 countries had the largest decrease in forest area over the time period under consideration:

Table 3.1: Top 5 Amount Decrease in Forest Area by Country, 1990 & 2016:

	Region	Absolute Forest Area Change
The second way to consi decrease.	der which countries are of c	concern is to analyze the data by percent
Table 3.2: Top 5 Percent	Decrease in Forest Area by	y Country, 1990 & 2016:
Country	Region	Pct Forest Area Change
	countries on the list are in t	t area the most between 1990 and 2016, we he region of The
countries are	he 5th country on the list is	, which is in the
countries are T	The 5th country on the list is egion. , we see that f absolute square kilometer	, which is in the is the only country that ranks in decrease in forest as well as percent e, this country has a significant opportunity
countries are T	The 5th country on the list is egion. , we see that f absolute square kilometer rom 1990 to 2016. Therefore	, which is in the is the only country that ranks in decrease in forest as well as percent e, this country has a significant opportunity
countries are T T Tell. From the above analysis the top 5 both in terms of decrease in forest area frahead to stop the decline C. QUARTILES	The 5th country on the list is egion. , we see that f absolute square kilometer rom 1990 to 2016. Therefore	is the only country that ranks in decrease in forest as well as percent e, this country has a significant opportunity emedial efforts.

The largest number of countries	in 2016 were fo	und in the	quartile.
There were	neir land area de rest land, denote	signated as fore	st. The following is a list of
Country	Region		Pct Designated as Forest

5. RECOMMENDATIONS

Write out a set of recommendations as an analyst on the ForestQuery team.

- What have you learned from the World Bank data?
- Which countries should we focus on over others?