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	V	
According to the World Bank, the to 1990. As of 2016, the most recent, a loss of	year for which data was availa	able, that number had fallen to
The forest area lost over this time listed for th	period is slightly more than the	e entire land area of
2. REGIONAL OUTLO	nd area of the world designate	
was, with	with the highest relative fores	station
relative forestation was		% forestation.
In 1990, the percent of the total lar	_	
was, with		
relative forestation was		

Table 2.1: Percent Forest Area by Region, 1990 & 2016:

	Т	
Region	1990 Forest Percentage	2016 Forest Percentage
The only regions of the world the (dropped		area from 1990 to 2016 were to%) and%). All other regions
(% to	%). All other regions
actually increased in forest area two aforementioned regions was this time period from 3. COUNTRY-LEVEL A. SUCCESS STORIE	s so large, the percent forest ar% to DETAIL	ea of the world decreased over
There is one particularly bright spot in the data at the country level, This country actually increased in forest area from 1990 to 2016 by It would be interesting to study what has changed in this country over this time to drive this figure in the data higher. The country with the next largest increase in forest area from 1990 to 2016 was the, but it only saw an increase of, much lower than the figure for		
and	are of cours	e very large countries in total
land area, so when we look at the aren't surprised to find a much s	ne largest <i>percent</i> change in for	rest area from 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:

increased in forest area by ______% from 1990 to 2016.

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

Country	Region	Absolute Forest Area Change

The second way to consider which countries are of concern is to analyze the data by percent decrease.

Table 3.2: Top 5 Percent Decrease in Forest Area by Country, 1990 & 2016:

Country	Region	Pct Forest Area Change

When we consider countries that decreased in	forest area percentage the most between 1990
and 2016, we find that four of the top 5 countri	ies on the list are in the region of
The countries are	·
, and	The 5th country on the list is
, which is in the	region.
From the above analysis, we see that	is the only country that ranks in
the top 5 both in terms of absolute square kilo	meter decrease in forest as well as percent
decrease in forest area from 1990 to 2016. The ahead to stop the decline and hopefully spearly	erefore, this country has a significant opportunity head remedial efforts.

C. QUARTILES

Table 3.3: Count of Countries Grouped by Forestation Percent Quartiles, 2016:

Quartile		Number of Cou	ıntries
			_
The largest number of countries in 2016 were found in the quartile.			
There were countries in the top quartile in 2016. These are countries with a very high percentage of their land area designated as forest. The following is a list of countries and their respective forest land, denoted as a percentage.			
Table 3.4: Top Quartile Countries, 2016:			
Country	Region		Pct Designated as Forest

4. 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?

5. APPENDIX: SQL Queries Used