World Happiness Report Analysis 2015-2019

Data Integrity

Inconsistency	Measures taken
Mismatching column names for various datasets from 2017-2019	Renamed columns for uniformity with datasets from 2015 and 2016
Missing Region column for datasets 2017 -2019	Filled up the missing information based on the concatenated df_15_16
Countries that were surveyed only once	Dropped them from dataset, as they make 0,03% of the whole
No duplicates found.	
No missing values found.	

Data profile after cleaning and combining all dataframes

Variable	Description	Data Types	Counts			
Country	Name of country	Qualitative, Nominal	160			
Region	Mapping of country to	Qualitative, Nominal	10			
	a region					
Happiness Rank	Numerical rank of	Qualitative, Ordinal	155			
	country based on					
	happiness					
Happiness Score	Score for Happiness	Quantitative,	701			
	per country	continuous				
Economy (GDP per	Value for a country's	Quantitative,	728			
Capita)	economy	continuous				
Family	Value for the social	Quantitative,	717			
	support of that	continuous				
	country's residents					
Health (Life	Value for the life	Quantitative,	692			
Expectancy)	expectancy of that	continuous				
	country's residents					
Freedom	Value for the ability to	Quantitative,	684			
	make free choices in	continuous				
	that country's					
	residents					
Trust (Government	Value for the trust in a	Quantitative,	623			
Corruption)	government of that	continuous				
	country's residents					
Generosity	Value for generosity	Quantitative,	650			
		continuous				
Year	Year of survey report	Quantitative, discrete 5				

Statistics:

	Happiness Rank	Happiness Score	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freedom	Trust (Government Corruption)	Generosity	Year
count	763.000000	763.000000	763.000000	763.000000	763.000000	763.000000	763.000000	763.000000	763.000000
mean	79.246396	5.364510	0.910665	1.076753	0.609808	0.410371	0.123595	0.217820	2016.985583
std	44.967146	1.123326	0.403930	0.328814	0.247824	0.153124	0.105126	0.122748	1.416458
min	1.000000	2.693000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2015.000000
25%	41.000000	4.510500	0.604024	0.868716	0.440030	0.309470	0.053426	0.128761	2016.000000
50%	79.000000	5.303000	0.975000	1.123236	0.646740	0.430540	0.089000	0.201870	2017.000000
75%	117.500000	6.167500	1.229215	1.324055	0.805168	0.531000	0.153763	0.277075	2018.000000
max	158.000000	7.769000	1.870766	1.644000	1.141000	0.724000	0.551910	0.838075	2019.000000

Questions to explore:

- Does money buy happiness? If so, why are the countries with the highest Economy scores not the happiest countries at the same time?
- Is the answer to happiness related to a combination of the six life factors?
- Why is generosity not related to economy?
- Where is the epicenter of happiness globally?
- Is the data showing a trend of happiness increasing or decreasing?