# Questions:

**World Happiness Index & Prosperity Analysis Questions:**

1. **Temporal Trends in Global Happiness:**
   * *Question:* How has the average Happiness Score changed globally from 2015 to 2023, and which regions show the most significant changes?
   * *Visualization:* Line chart showing global average happiness score trends with separate lines for each region.
2. **Economic Influence on Happiness:**
   * *Question:* Is there a correlation between GDP per capita and Happiness Score across different years and regions? How has this correlation evolved over time?
   * *Visualization:* Scatter plots for each year with regression lines, grouped by region; heatmaps for correlation coefficients over the years.
3. **Regional Comparison of Happiness Factors:**
   * *Question:* Which factors (e.g., Economy, Health, Freedom, Trust) contribute the most to happiness in different regions in 2023?
   * *Visualization:* Stacked bar chart for each region, showing the contribution of each factor to the total Happiness Score.
4. **Happiness vs. Prosperity in 2023:**
   * *Question:* How do the Happiness Score and Prosperity Index (AveragScore) correlate in 2023, and are there outliers that are highly prosperous but not happy or vice versa?
   * *Visualization:* Scatter plot with Happiness Score on one axis and Prosperity Index on the other; annotate significant outliers.
5. **Prosperity Components vs. Happiness Factors:**
   * *Question:* Which components of the Prosperity Index (e.g., Safety & Security, Governance, Economic Quality) are most strongly associated with specific Happiness factors in 2023?
   * *Visualization:* Matrix of scatter plots with correlation coefficients; or, a clustered heatmap of correlations between Prosperity components and Happiness factors.
6. **Top and Bottom Performers Over Time:**
   * *Question:* Which countries have consistently ranked in the top 10 and bottom 10 in Happiness Score from 2015 to 2023, and how have their Prosperity Index scores for 2023 compared?
   * *Visualization:* Sankey diagram showing changes in top/bottom 10 over time; bar chart comparing 2023 Prosperity Index for top and bottom performers.

**Additional Suggestions:**

1. **Generosity vs. Governance:**
   * *Question:* Is there any relationship between the level of Generosity and Governance quality in 2023?
   * *Visualization:* Bubble chart showing Generosity, Governance, and another variable (e.g., Happiness or GDP).
2. **Trust and Corruption vs. Freedom Levels:**
   * *Question:* How does the perception of Trust (Government Corruption) relate to levels of Freedom across different countries in 2023?
   * *Visualization:* Scatter plot with color-coded points by region, adding a regression line to indicate trends.

These questions will provide a comprehensive overview of your data while demonstrating advanced Python EDA and visualization techniques.Top of Form

Bottom of Form