FIRST TASK: REDWINE QUALITY ANALYSIS

I've developed a Red Wine Quality Analysis Dashboard, using data on various chemical properties

and their influence on wine quality. This Power BI dashboard offers a comprehensive look at the

factors affecting the quality of red wine, and here's what it presents:

1. Differences Between Chemical Properties: A bar chart showing key chemical differences (like

alcohol, citric acid, and residual sugar) between high and low-quality wines.

2. Wine Quality Ratings Distribution: Visualizing the spread of quality ratings to identify patterns and

anomalies in the dataset.

3. Alcohol's Impact on Quality: A line graph illustrating how varying alcohol levels correlate with

average wine quality.

4. Sugar Content and Sweetness/Quality Perception: A scatter plot highlighting how sugar content

influences both sweetness and perceived quality.

5. Overall Chemical Influence on Quality: Representing the combined effect of various chemical

properties on the final quality score.

Key metrics include:

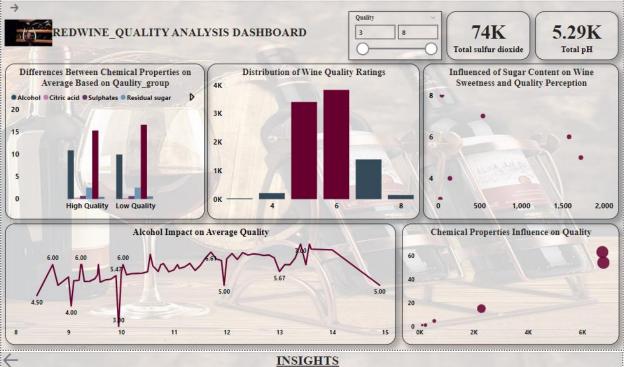
Total Sulfur Dioxide: 74K

Total pH: 5.29K

This dashboard helps uncover insights that winemakers and enthusiasts can use to understand how

chemical composition impacts wine quality!

DASHBOARD BELOW!!!



1. Which factors differentiate higher-quality wines (quality 6+) from lower-quality wines?

Visualizations:- (Clustered Column Chart)

Insights:- This helps pinpoint which factors are more prominent in higher-quality wines compared to lower-quality wines.

2. What is the distribution of wine quality ratings?

Visualizations:- (Clustered Column Chart)

Insights:- This gave an overview of how wines are distributed across different quality ratings (from 3 to 8, for example).

3. Does sugar content influence wine sweetness and quality perception?

Visualizations:- (Scatter Chart/Plot)

Insights:- This is showing if there's any direct influence of sugar levels on the perceived quality of the wine.

4. How does alcohol content impact wine quality?

Visualizations:- (Line Chart)

Insights:- This is highlighting whether there's a trend where higher or lower alcohol content results in higher wine quality.

5. What chemical properties influence wine quality?

Visualizations:- (Scatter Chart/Plot)

Insights:- This help identifying which chemical properties have the strongest positive or negative correlation with wine quality.