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**Report**

**Introduction:**

**Analytical Dashboard on Month-wise Export Data of Commodities**

Month-wise export data for principal commodities provides crucial insights into the dynamics of international trade. This data, which encompasses metrics such as volume, value, and destination markets, enables stakeholders to monitor economic trends, identify emerging opportunities, and formulate informed strategies. By analyzing export data on a month-to-month basis, policymakers, economists, businesses, and investors can adapt to changing market conditions, mitigate risks, and capitalize on growth prospects. Understanding the factors driving fluctuations in export performance enhances transparency, fosters market intelligence, and supports effective decision-making in an interconnected global economy.

**Summary of Dashboard:** First tab i.e. Data tab covers summary of data. Second Tab i.e.

Visualization tab covers interactive graphs and third tab i.e. Analysis tab covers ANOVA tests to check if cases have risen over the years.

# Detailed Analysis

**Tab 1: Data**

# Part 1: Introduction

This part provides a brief introduction of dashboard and abbreviations used as provided earlier.

# Part 2: Table

This part provides the data that is used in this in this dashboard. It is downloaded from data.gov.in, which is open-source website by government of India

# Part 3: Structure

This part of the data provides detailed overview of different variables of the data. Variables are months and commodities exported under different years.

# Part 4: Summary

This report analyzes month-wise export data for principal commodities from April 2013 to December 2014. The data provides insights into the value of exports in crore rupees (Rs. Cr.) for each month and highlights trends and changes over time. Key metrics such as minimum, maximum, mean, and median values are examined, along with percent changes between April-December 2013 and April-December 2014. The analysis aims to identify patterns, fluctuations, and potential drivers affecting export performance during the specified period.

# Part 5: Analysis

**1. Overview of Export Trends:**

The data reveals significant variations in export values across different months and years, indicating fluctuations in demand, market conditions, and economic factors.

The mean export value shows an increasing trend from April 2013 to December 2014, suggesting overall growth in export activity during the period under review.

**2. Month-wise Analysis:**

April 2013 recorded a minimum export value of Rs. 0.0 Cr. and a maximum value of Rs. 133353.9 Cr., reflecting a wide range of export activities.

December 2014 exhibited similar variability, with a minimum export value of Rs. 0.0 Cr. and a maximum value of Rs. 163276.31 Cr.

Median export values remained relatively stable across most months, indicating consistent performance within the middle range of the distribution.

**3. Year-on-Year Comparison:**

The analysis of year-on-year changes reveals fluctuations in export performance, with some months showing significant growth while others experienced declines.

Percent change calculations between April-December 2013 and April-December 2014 highlight the overall growth or contraction in export values during the respective periods.

**4. Insights and Implications:**

Understanding the factors contributing to fluctuations in export values is essential for businesses, policymakers, and investors to make informed decisions and strategies.

External factors such as changes in global demand, economic conditions, currency fluctuations, and trade policies may have influenced export performance during the period under review.

**5. Conclusion:**

The month-wise export data analysis provides valuable insights into the dynamics of international trade and export performance for principal commodities. While the data exhibits variability and fluctuations, the overall trend indicates growth in export activity over the specified period. Further analysis and monitoring of key factors driving export performance are recommended to support informed decision-making and strategy development.