PROJECT DESCRIPTION:

The Global Export Analysis Project focuses on examining the export trends of a country using structured data, including HS codes, commodity details, region, state, supplier, quantity, pricing, freight charges, and export modes. The goal is to identify key export commodities, top-performing regions, supplier contributions, and cost structures (freight, duty, and price). Additionally, the project provides insights into export destinations, transportation efficiencies, and year-over-year growth, enabling data-driven decision-making to optimize trade operations and improve profitability.

Column Descriptions

1. HSCode (Harmonized System Code)

- A standardized code used internationally to classify traded goods.
- **Purpose**: Identify the type of goods being exported for duty/tariff calculations and trade analysis.

2. Commodity Code

- A code that categorizes the specific goods being exported.
- **Purpose**: Further breakdown of items for detailed analysis within the HS classification.

3. State Code

- Represents the state from which the goods are being exported.
- **Purpose**: Analyze state-wise export trends and identify top contributing states.

4. Supplier Code

- A unique identifier for the supplier of the goods.
- **Purpose**: Track supplier performance and contribution to exports.

5. Exported Month

- The month when the goods were exported.
- **Purpose**: Perform time-based analysis (seasonal trends or month-over-month comparisons).

6. Year

- The year when the goods were exported.
- **Purpose**: Conduct year-over-year (YOY) growth analysis and identify long-term trends.

7. Price

- The price of the goods being exported (usually per unit).
- **Purpose**: Calculate total revenue and profitability.

8. Quantity

- The volume of goods exported (measured in the specified UoM).
- **Purpose**: Analyze export volume trends and capacity.

9. **Region Code**

- Code representing the region associated with the export.
- **Purpose**: Region-wise analysis of export performance.

10. Country Code

- Code representing the country to which the goods are exported.
- **Purpose**: Analyze country-specific trends and market demand.

11. Exported To Code

• A specific code identifying the destination country or market.

• **Purpose**: Granular level market analysis.

12. Unit of Measure (UoM)

- The measurement unit used (e.g., kg, liters, metric tons).
- Purpose: Standardize and compare quantities across different products.

13. From Currency

- The currency in which the export transaction is recorded.
- **Purpose**: Analyze financial data in the context of currency fluctuations.

14. Export Mode

- The method of transportation (e.g., air, sea, road).
- Purpose: Understand logistics preferences and cost efficiency.

15. Freight Charges In %

- Freight charges expressed as a percentage of the total cost.
- **Purpose**: Analyze transportation costs and their impact on profitability.

16. Material Type Code

- A code categorizing the type of material being exported (e.g., raw materials, finished goods).
- **Purpose**: Segment exports by material type for deeper insights.

17. To Currency

- The currency used in the destination country for the transaction.
- **Purpose**: Facilitate multi-currency analysis and conversion.

FREIGHT

Freight refers to the cost incurred for transporting goods from the point of origin to the destination.

Purpose:

Covers the logistical costs of moving goods, including handling and transportation.

Types of Freight Charges:

Air Freight: Cost of shipping goods by air.

Sea Freight: Cost of shipping goods by sea.

Rail Freight: Charges for transport via rail networks.

FREIGHT CHARGES

Definition: The cost of transporting goods from one location to another, including handling, loading, and logistics services.

Purpose: To pay for the transportation of goods via different modes like air, sea, rail, or road.

Who Collects It: Freight companies, shipping carriers, or logistics service providers.

Example Costs:

₹50,000 to transport goods via sea from India to the USA.

₹10,000 for air freight to deliver urgent goods.

CALCULATE FREIGHT TAX TO PAY

FREIGHT FEES INR - TOTAL SALES - (FREIGHT CHARGES/100)

TOTAL SALES * (FREIGHT CHARGES/100)

DUTY CHARGES (CUSTOMS DUTY)

Definition: A government-imposed tax on goods being imported or exported.

Purpose: To regulate trade, protect domestic industries, and generate revenue.

Who Collects It: Customs authorities of the importing/exporting country.

Types:

Import duty (on imported goods).

Export duty (on exported goods, rarely applied).

DUTY CHARGES DEPENDS ON THE WEIGHT AND PRICE OF THE GOODS

DEPENDS ON BELOW CONDITION

QUANTITY BETWEEN 1-25 - 0.5%

QUANTITY BETWEEN 26-50 - 1%

QUANTITY BETWEEN 50-100 - 1.5%

QUANTITY BETWEEN 100-200 - 2%

QUANTITY > 200 - 2.5%

FOR ANALYSIS

TOTAL SALES * (DUTY/100)

TRANSPORTATION CHARGES

CALCULATE NET SALES

TAKE OFF FREIGHT CHARGES, DUTY CHARGES

CALCULATE: TOTAL COST TO COMPANY , TOTAL SALES, FREIGHT CHARGES, DUTY CHARGES, NET SALES, YOY GROWTH

- 1. TOTAL SALES = PRICE*QUANTITY
- 2. FREIGHT CHARGES = TOTAL SALES * FREIGHT CHARGES*100
- 3. DUTY CHARGES = TOTAL SALES* DUTY CHARGES*100
- 4. TOTAL COST TO COMPANY = TOTAL SALES+ FREIGHT CHARGES+DUTY CHARGES
- 5. NET SALES = TOTAL SALES FREIGHT CHARGES DUTY CHARGES

KEY POINTS FOR DEVELOPING THE QUERY

- NAMIBIA NM AND MOROCCO MO FALLS UNDER EAST AFRICA BUILD A NEW HIERARCHY
- EXCLUDE GOLD, IRON AND STEEL FROM THE ANALYSIS WHERE IT FALLS UNDER MINERAL CATEGORY
- MAKE CURRENCY CONVERSION USING EXCHANGE RATE TABLE IN THE DATABASE
- ROUND OFF THE PRICE TO TWO DECIMALS
- REPLACE MATERIAL TYPE NA WITH "UNDER PROCESSING"