**Supply Chain Shipment Pricing**

**Overview:-**

A dataset is essentially a collection of data points organized in a way that allows for analysis. Imagine a big spreadsheet with rows and columns. Rows represent individual data points, and columns represent features or attributes of those data points.

Most datasets are organized in tables with rows and columns. Each row represents a single data point and each column represents a specific feature of that data point.

**Column Name Description:-**

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| **Column Name** | **Description** |
| Id | This is a unique identifier for each record in the dataset. It's likely an auto-generated number and serves as the primary key. |
| Project code | This identifies the project associated with the shipment. It's a text field allowing for custom codes. |
| PO/SO | This stands for Purchase Order/Sales Order. It identifies the internal order documents used for the transaction. |

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| ANS/DN | This stands for Advance Shipment Notice/Delivery Note. These are documents used to notify parties about incoming or completed deliveries. |
| Country | This specifies the country involved in the shipment, likely the destination country. |
| Managed by | This identifies the team or department responsible for managing the shipment. |
| Fulfill Via | This indicates the method used to fulfill the order, such as "Direct Drop" or "From RDC (Regional Distribution Center)". |
| **Vendor INCO term** | This refers to the Incoterms (International Commercial Terms) used in the sales contract, defining responsibilities for costs and risks during shipment. |
| **Shipment mode** | This specifies the transportation method used, such as "Air" or "Truck". |
| PO first sent to client Date | This is the date the purchase order was first sent to the client. It's likely in text format due to potential variations. |
| Po sent to vendor date | This is the actual date the purchase order was sent to the vendor. |

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| **Scheduled delivery date** | This is the planned date for delivery to the client. |
| Delivered to client date | This is the actual date the shipment was delivered to the client. |
| Delivered recorded date | This might be the date the delivery was recorded in the system, potentially different from the actual delivery date. |
| Product group | This is a broader category for the product being shipped. |
| Sub classification | This is a more specific classification for the product within the product group. |
| Vendor | This identifies the supplier of the product |
| Item description | This provides a textual description of the specific product being shipped. |
| Molecule/Test type | This might be relevant for specific industries and identifies the molecule or test type involved (e.g., for pharmaceuticals). |

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| Brand | This specifies the brand name of the product, if applicable. |
| Dosage | This indicates the dosage amount of the product (e.g., milligrams for medication). |
| Dosage form | This specifies the form of the product (e.g., tablets, capsules). |
| Unit of measure (per pact) | This defines the unit used to measure the product in each package (e.g., number of tablets per bottle) |
| Line Item Quantity | This indicates the total number of units ordered for this specific line item in the shipment. |
| Line item value | This is the total value of this line item, likely calculated by multiplying the line item quantity by the unit price. |
| Pack price | This is the price per package of the product. |
| Unit price | This is the price per unit of the product (calculated by dividing pack price by units per pack). |

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| Manufacturing Site | This might be the first line of a more detailed product description. |
| First line description | This specifies the weight of the product in kilograms. |
| Weight(kilograms) | This is the cost associated with transporting the shipment, likely in US Dollars. |
| **Freight cost (USD)** | This is the cost of insurance for this specific line item in the shipment, likely in US Dollars. |

Questions:-

1. What is the distribution of unique identifiers (Ids) in the dataset?

2How do different project codes contribute to the dataset?

3What is the frequency of Purchase Orders (POs) versus Sales Orders (SOs)?

4What are the top counties involved in the supply chain transactions?

5How is the dataset managed by different entities?

6What are the common fulfillment methods used?

7What are the prevalent vendor INCO term?

8What is the distribution of line item values?

Objective:-

The objective of the dataset seems to be to provide comprehensive information on various aspects related to supply chain shipment pricing. The specifics of each transaction, including purchase orders, sales orders, shipment details, delivery dates, and vendor information. Analyze the costs associated with including line item values, freight costs, insurance costs, and unit prices. Assessing the performance of vendors and suppliers based on delivery dates, INCO terms, and manufacturing sites.

1.General Information

2.Transaction Details

3.Vendor and Supplier Performance

4.Financial Analysis