**Data Dictionary of**

**Supply Chain Analysis Data**

**Audience: IT Consulting Company**

**Author: Sounak Dutta Chowdhury, Junior Business Analyst**

**Version: v1.0**

**Publication date: 20/06/2024**

**Problem Statement:**

The Supply Chain data has been involved in the distribution of several products, including hair and skin care products. Some standard features in every dataset record are Product Types, SKUs, Prices, Availability, Quantity Sold, Total Sales Revenue, and the Customers’ Profiles. Also included are Inventory Status, Time to replenish Inventory, Order Quantities, Shipping Frequency, the carrier service to use, and their corresponding costs. Supplier information is also specified in the data, which includes the suppliers’ names, their locations, their production capacity, the time taken to produce a particular product, and their costs. These are the elements of Quality Control and the options selected for Transportation, including the Inspection results of the product and the number of Defects observed. Perhaps this dataset helps in the evaluation of Supply Chain productivity and problems, the detection of weak links in the chain, satisfying customers’ behaviors, etc.

**Table Details:**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| Product type | String | The type of product, e.g. haircare, skincare, cosmetics |
| SKU (Stock Keeping Unit) | String | Identifier for the product |
| Price | Float | The price of one product |
| Availability | Integer | The number of the products that is currently available |
| Number of products sold | Integer | The number of products that have been sold |
| Revenue generated | Float | The total revenue generated from selling one product |
| Customer demographics | String | The customer demographic for one product, e.g. Female, Male, Non-binary, Unknown |
| Stock levels | Integer | The current stock level of one product |
| Lead times | Integer | The lead time for one product |
| Order quantities | Integer | The typical order quantity for one product |
| Shipping times | Integer | The typical shipping time for this product |
| Shipping carriers | String | The shipping carrier used for this product, e.g. Carrier A, Carrier B, Carrier C |
| Shipping costs | Float | The typical shipping cost for one product |
| Supplier name | String | The name of the supplier for one product |
| Location | String | The location of the supplier, e.g. Mumbai, Kolkata, Bangalore, Chennai, Delhi |
| Lead time | Integer | The lead time for the supplier |
| Production volumes | Integer | The typical production volume for one product |
| Manufacturing lead time | Integer | The lead time for manufacturing one product |
| Manufacturing costs | Float | The cost for manufacturing one product |
| Inspection results | String | The quality check of one product, e.g. Pass, Fail, Pending |
| Defect rates | Float | The accuracy check for one product |
| Transportation modes | String | The different modes for transportation of products, e.g. Road, Air, Rail, Sea |
| Routes | String | The different routes for transportation of products, e.g. A, B, C |
| Costs | Float | The cost of transportation of one product |