Project summary and story

Overview :

This is Analysis of Logistics data using Power BI ; analyzing Logistics data of shipments, salesmen, customers, dates and statuses. It's also about translating business assessment needs into visual Reports, including Shipments' status counts along timeline of each shipment, while considering the "Report requirements" file.

User Story :

This company is a Logistics services provider, that manages the Logistics for shipments of many international Clients (customers).

The challenge in this project is that it requires to capture Shipment status along different times and dates. In other words, the general requirement is to classify the status of shipments along the timeline for each shipment, per details of Dataset summarized below. This is needed to be visualized per week, month, year, salesman…. etc.

In order to assess different aspects in the company's performance ; we have the general requirements in the attached PDF file named "Report requirements"

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Attachments :

(1) **Project summary and story** (this file)

(2) **Report requirements** (pdf file)

(3) **Dataset in 1 excel file :**

- Shipping mode
- Transactions Types : Import, Export, Domestic
- Customer code
- Salesman
- Shipment ID on company's internal system

Dates per each shipment :
- Date Created
- Date Active
- Date Completed

(4) **Power BI visual of the generated reports** (pdf file)

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Steps :

➢ Data understanding and Analysis
➢ Finding out the approach to generate reports of the deliverable requirements, from the given dataset. For example How to visualize the different statuses along the timeline of each shipment
➢ Setting the Outline of Power BI report, to decide the needed calculations, filters, columns and fields.
➢ Data cleaning and Transformation
➢ Data connection, modelling
➢ Data visualization

How :

Shipment Status shall be classified and captured using the given Dates , I'll use the below understanding to be able to classify them :

- New Shipment :
  Shipment is considered New when it's created and not yet Active, So the shipment is in the status of "New shipment" between the Date created and Date active.
  ➢ **New Shipment dates = "Date Active" – "Date Created"**

- Active Shipment :
  Shipment is considered Active when it's Active and not yet completed, So the shipment is in the status of "Active shipment" between the Date Active and Date Completed.
  ➢ **Active Shipment dates = "Date Completed" – "Date Active"**

In order to implement this, I concluded an approach to generate this deliverable. I decided to create a number of Measures, some are below :

- **"New Shipment_Year, Month",** represents Dates list by month & year where the shipment status is "New shipment".
- **"Active Year, Month"** , represents Dates list by month & year where the shipment status is "Active shipment".
- **"Active Weeks list"** , represents dates list by Weeks where the shipment status is "Active shipment".

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In this phase, the deliverable was to visualize the needed aspects and scenarios, by finding out a practical way on how to Report these general requirements as communicated, and to prepare the Outline of the reports and then visualize them. This was successfully done and visualized in my Power BI original file.
Then later on in a following phase, I shall advise them my recommendations based on collective insights in this visualization.