



Power BI



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Business Intelligence Portfolio

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Power BI Portfolio:

Dashboard and reports created for supply chain, logistics, hospital (Emergency, Consultant Clinic, Dialysis) and administrative department

🕒 10 minute read

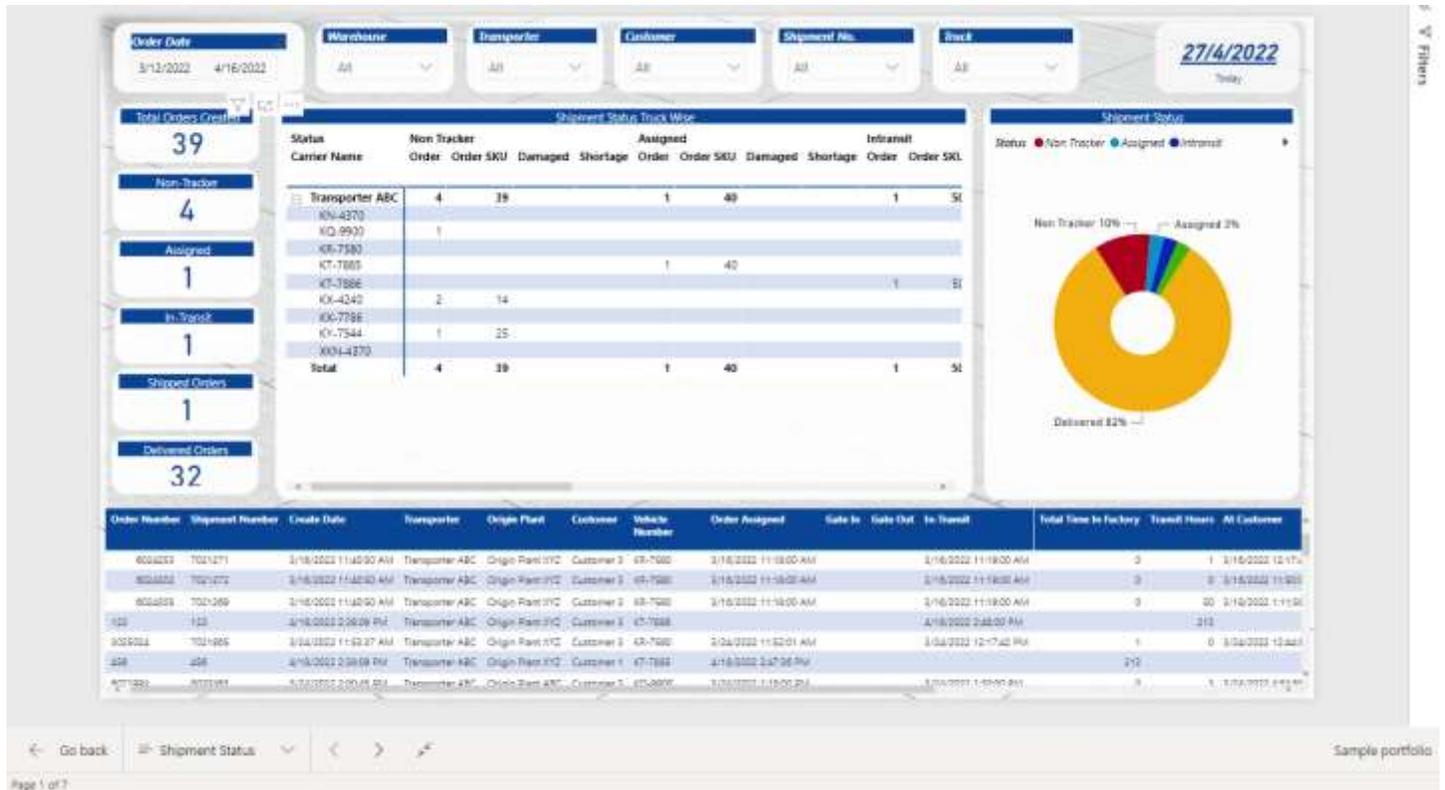
Introduction

As a part of my Power BI portfolio, I have implemented Power BI in different sample data sets in relevant industries of Pakistan to demonstrate competency, expertise in power BI reports, dashboards building. All the data, company names used in this portfolio are altered for security and compliance purpose. The skills and technical knowledge applied are as below:

- Accessing the Data from cloud (Azure SQL and AWS Ec2), csv, excel, MySQL and PostgreSQL using direct query, import and ODBC connection.
- Data Preparation (update and append table).
- Transform Data into Data Modeling and explore data by removing duplicates, adding conditional columns, un pivot-splitting columns, normalizing and de normalizing tables.
- Create custom tables, relationships, star or snowflakes schema relationship cardinality.
- Prepare data visualization and reporting using Charts (bar, line, column, scatter, pie, donut, ribbon and water flow), table, matrix, KPI, slicers, map etc.
- Creating DAX measure calculation using sum, count, calculate, divide, time intelligence.
- Creating calculated columns using DAX.
- Create Dynamic Measure, Dynamic Dimension, Tooltip, Bookmark in reporting.
- Set up on premises personal and enterprise gateway.
- Publish, Share and collaborate dashboard, workspace, apps.

Logistics Data Analysis 1

This dashboard contains the details of the transportation management of the customer as per the KPI of the respective organization.



The first page of the dashboard is the shipment status page. This page contains the summarized insight of the orders, products and event associated. It also contains the details data grid to find get the details of any specific order

This page contains various calculated columns and measure using DAX.

The dataset used in this dashboard is populated by Azure SQL and direct query is used to pull the data.

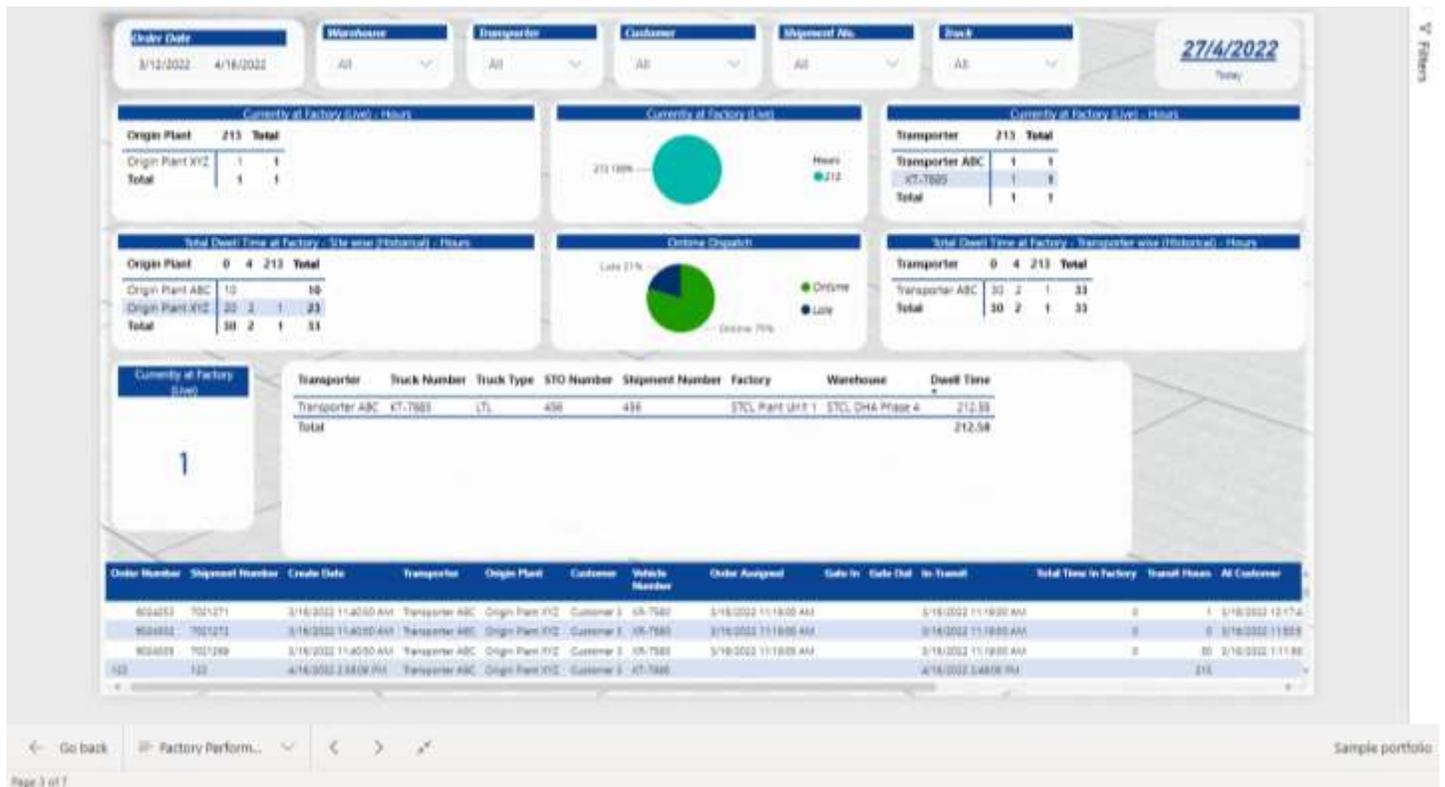
The second page of the dashboard is the overall page. This page contains the summarized insight of the entire data set as per the customer requirement. There are multiple visuals used in this page such as cards, Bar and line graph, doughnut graph, pie graphs

This page contains various calculated columns and measure using DAX.



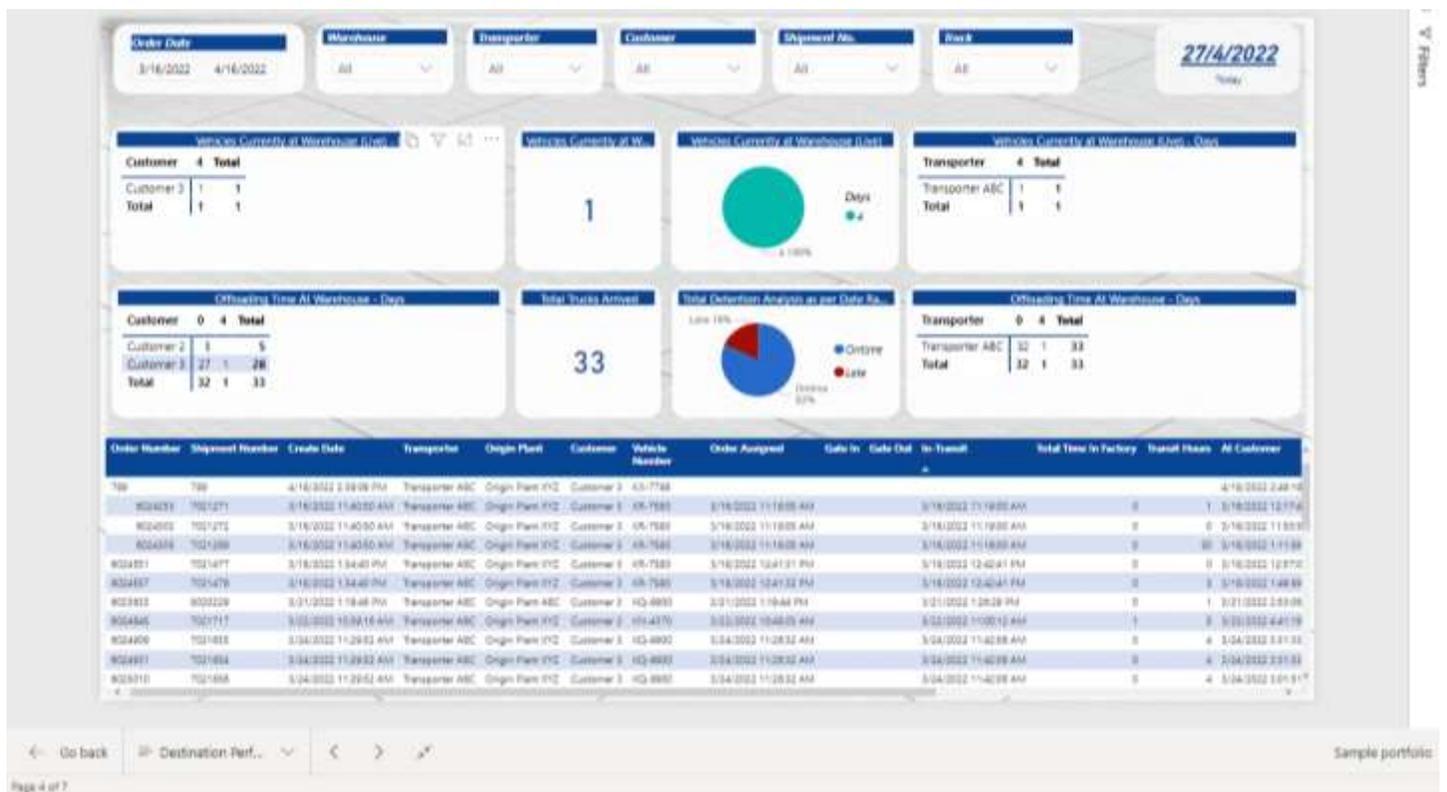
The third page of the dashboard is the Factory Performance. This page contains the Information regarding the vehicle and orders which are currently at the loading point. This page also depicts the live vehicles which are currently loading the product as well as the vehicles which have loaded the order before according to the selected date range.

This page contains various calculated columns and measure using DAX.



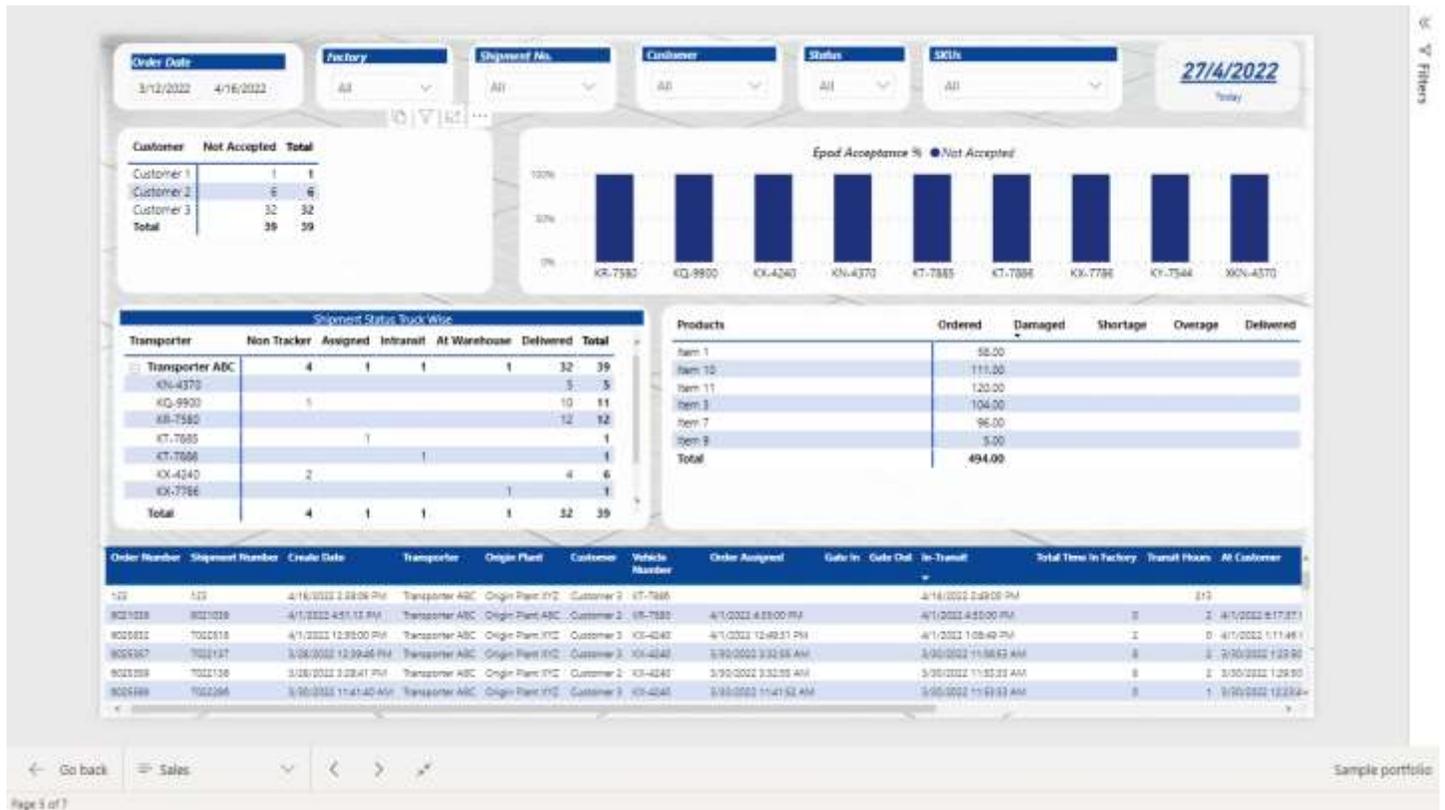
The fourth page of the dashboard is the Destination Performance. This page contains the Information regarding the vehicle and orders which are at the destination point. This page also depicts the live vehicles which are currently unloading the product as well as the vehicles which are unloaded before according to the selected date range.

This page contains various calculated columns and measure using DAX.



The fourth page of the dashboard is sale. This page contains the regarding the products, orders associated to the orders, acceptance of products and overall detail data grid.

This page contains various calculated columns and measure using DAX.



The last page the dashboard is Map of In-transit Vehicles. This page contains the regarding the trucks/vehicles which are currently In-transit and these vehicles can be seen on the map by using coordinates data (latitude and longitude).

This page contains various calculated columns and measure using DAX.

The dashboard interface includes the following elements:

- Filters:** Order Date (4/16/2022 - 4/16/2022), Warehouse (All), Transporter (All), Customer (All), Shipment No. (All), Truck (All), and a date selector for 27/4/2022 (Today).
- Map:** A world map with 'Map' and 'Satellite' views. A 'Terrain' checkbox is present. The map is powered by Google Maps and includes a 'Dynamics 365' logo.
- Shipment Table:**

Transporter Name	Truck Number	Order Number	Shipment Number	Status	factory	Customer	Warehouse
Transporter ABC	KT-7886	123	NULL	In-transit	Origin Plant, KY2	Customer...	Karechi
- Shipment Status Table:**

Transporter	Truck Number
Transporter ABC	KT-7886

Navigation: Go back, Map of Transit V..., Page 6 of 7, Sample portfolio.

Logistics Data Analysis 2

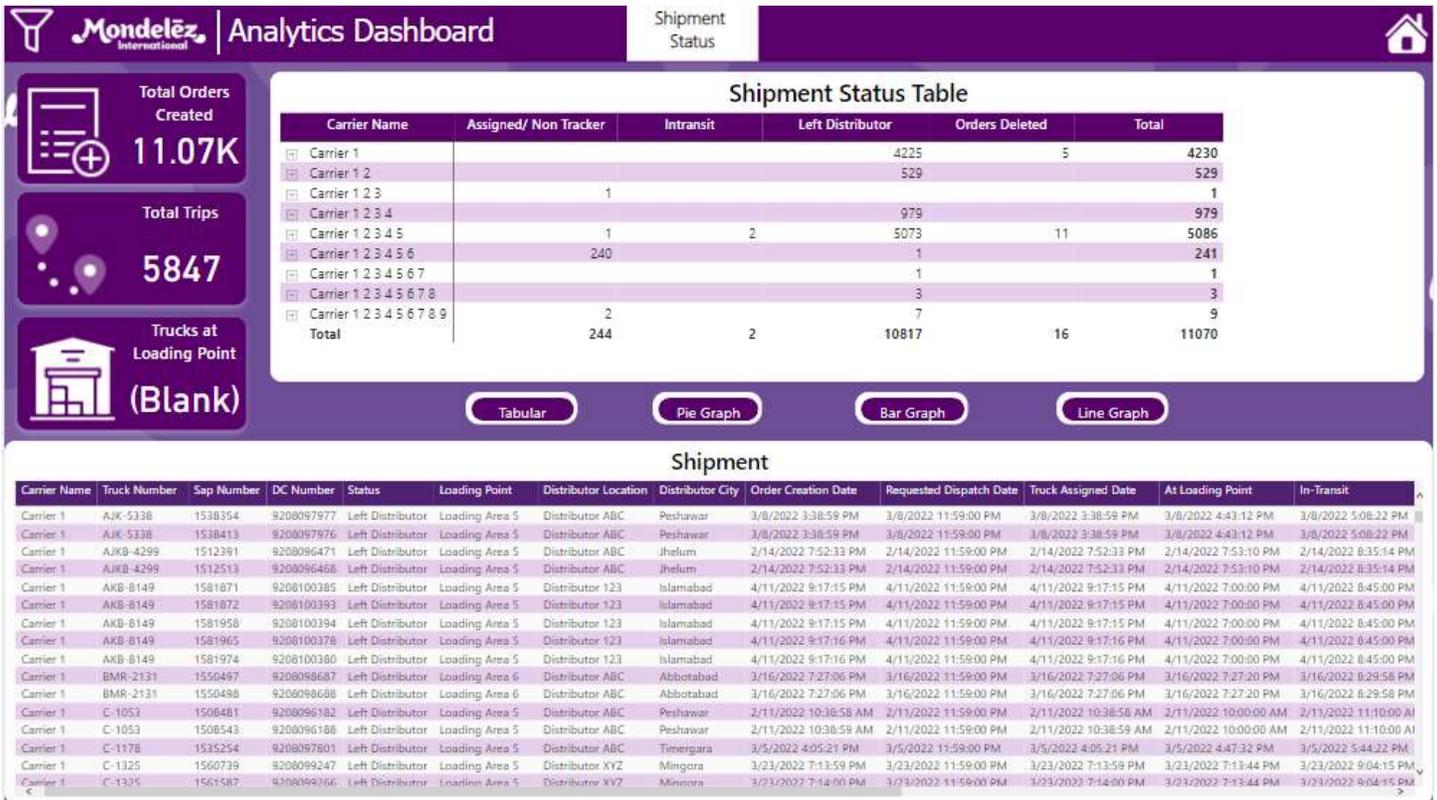
This dashboard contains the details of the transportation management of the customer as per the KPI of the respective organization.

The very first page is the index page through which different tabs of this report is navigated.



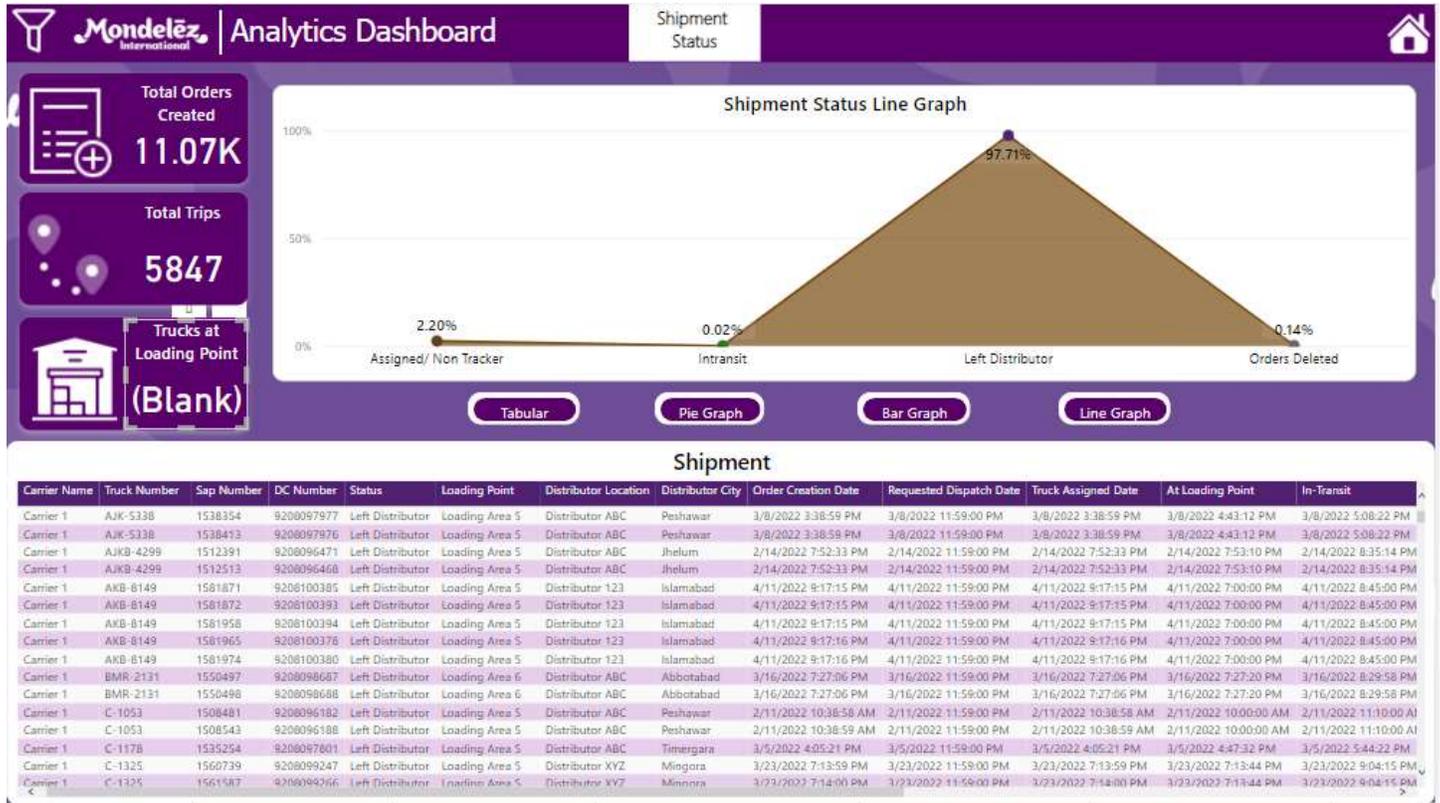
The dataset used in this dashboard is populated by Azure SQL and direct query is used to pull the data.

The very first page of the report is shipment status. In the tab the summarized details of the shipment and a grid with complete data can be seen.



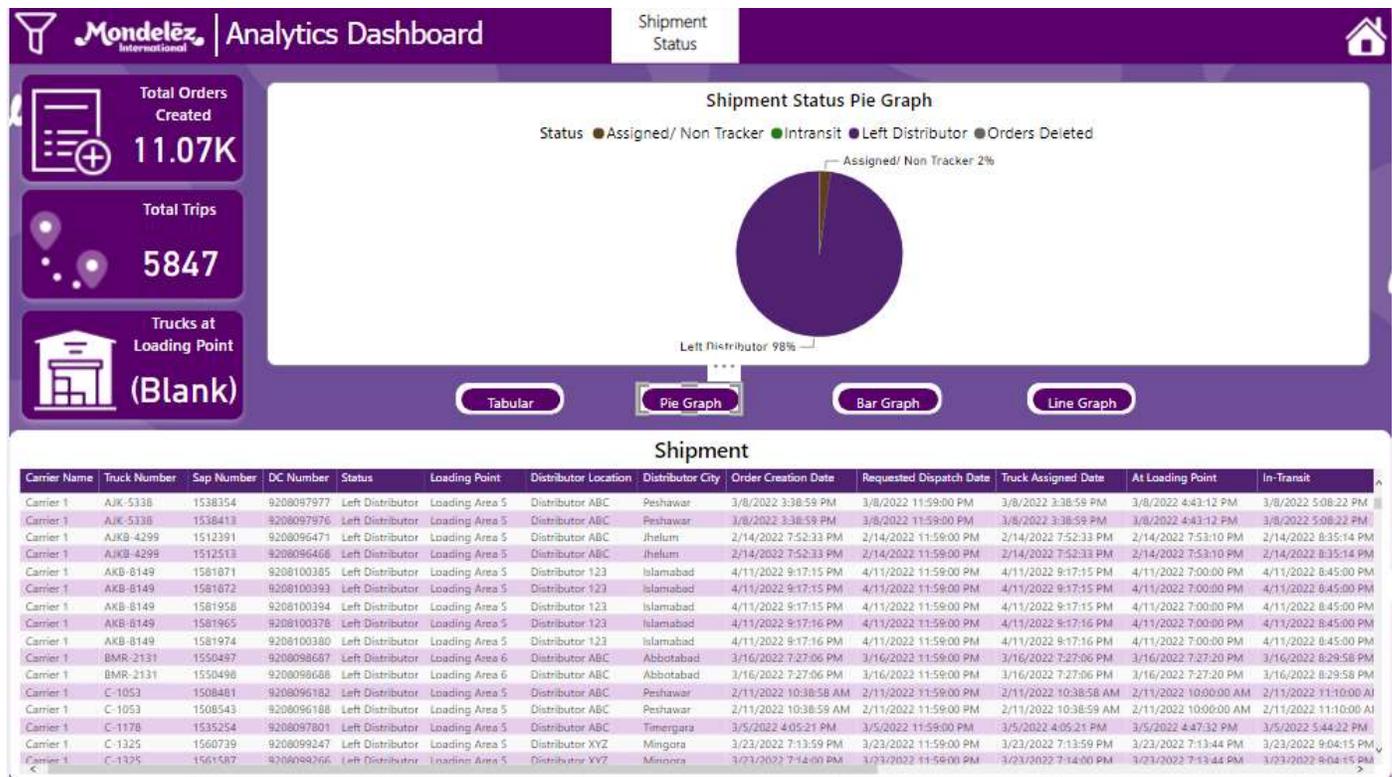
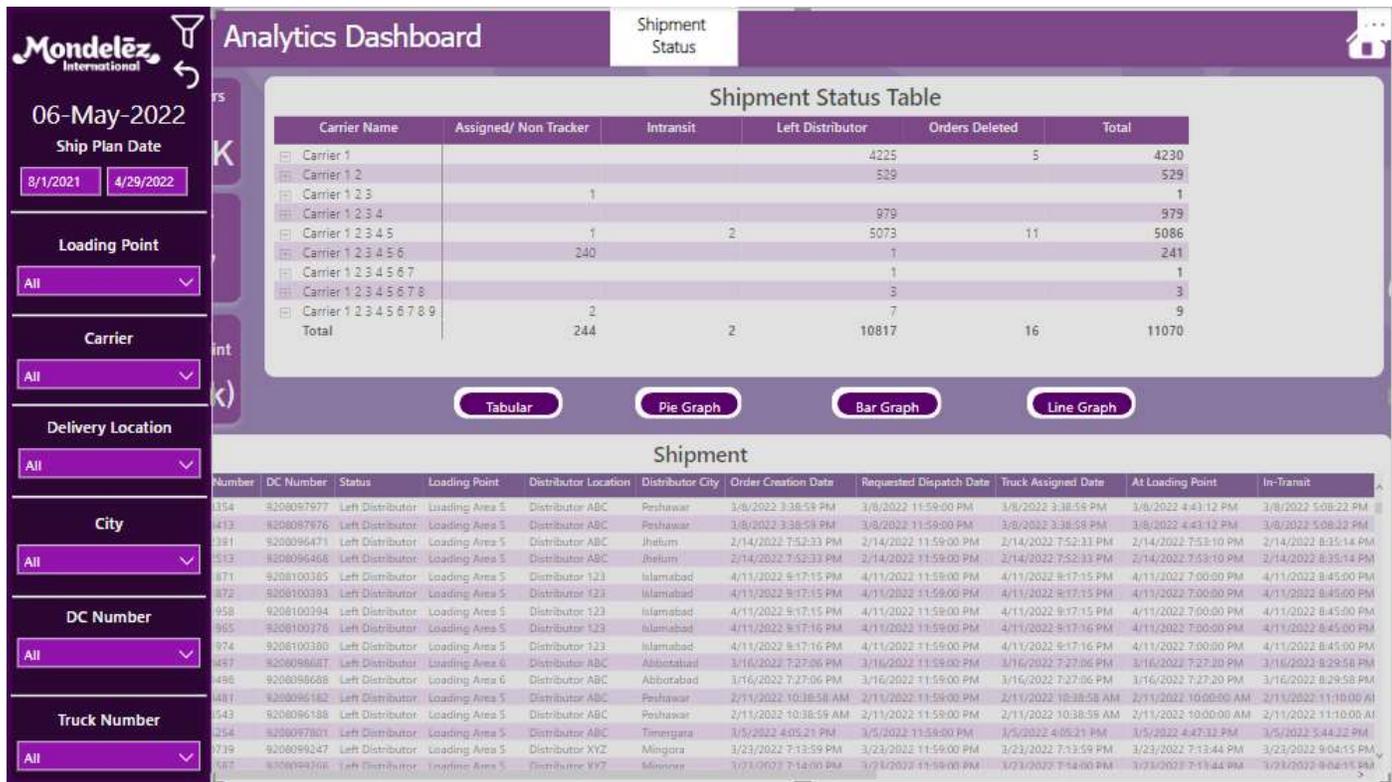
The report is created using bookmarks which makes it dynamic and the visuals can be changed as per the user desire.

In the above image below the user can click on the button and the previous visual will be changed to new on.



When the page was navigated the existing visual was the table and when the user clicked on the line graph button the table was hidden and the line graph gets visible.

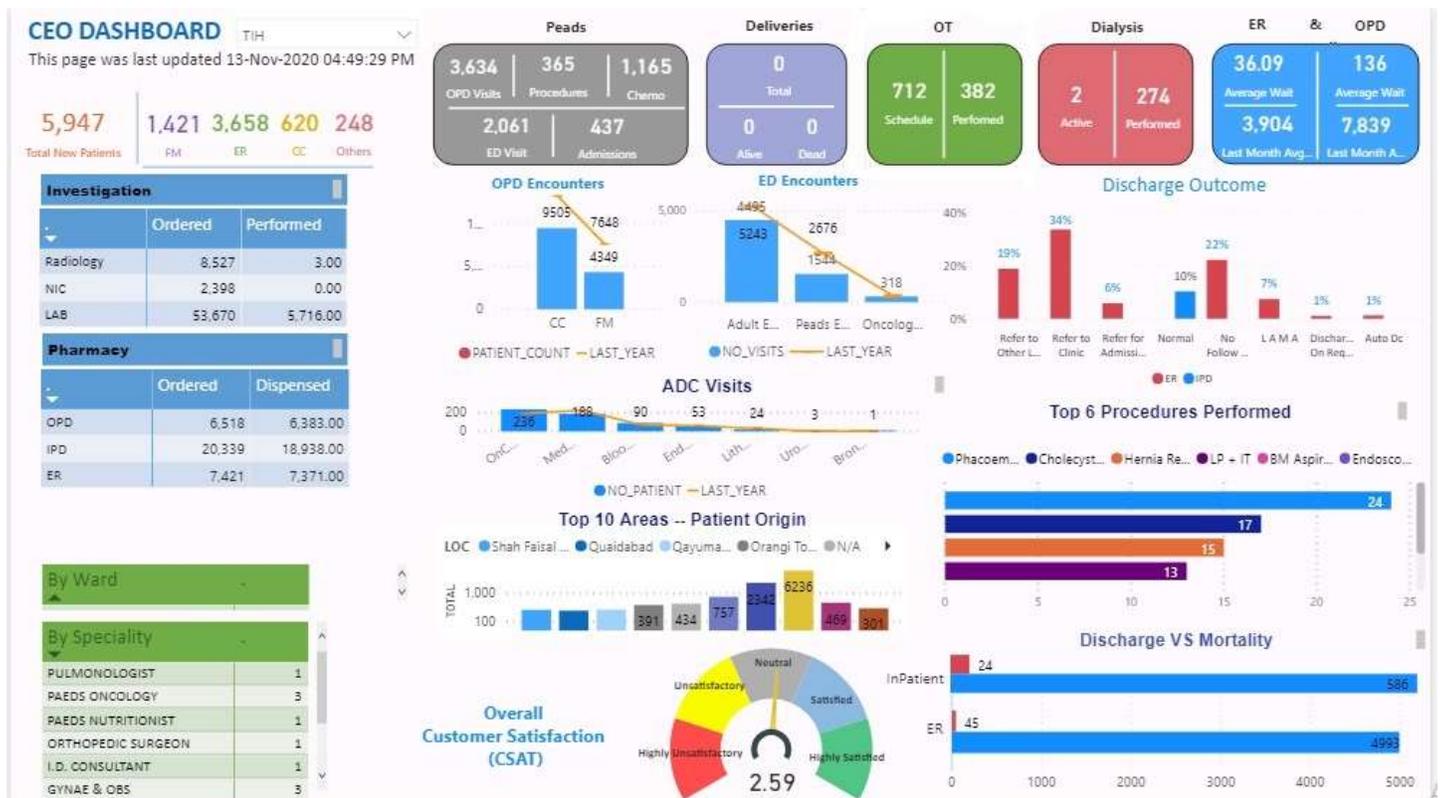
The filters are hidden in the filter area in this report using bookmarks and selection, this approach make the dashboard more spacious to present the visual in much better way.



Multiple DAX Calculations are used to generate Dynamic Measures and Dynamic Dimensions.

Hospital (CEO Dashboard)

This CEO dashboard is designed to show KPIs & graphs linked with key activities that directly or indirectly impact over all patients activities in the hospital, such as different department load, ancillary support services, procedure performed, activity index, discharge outcome, total disposal etc.

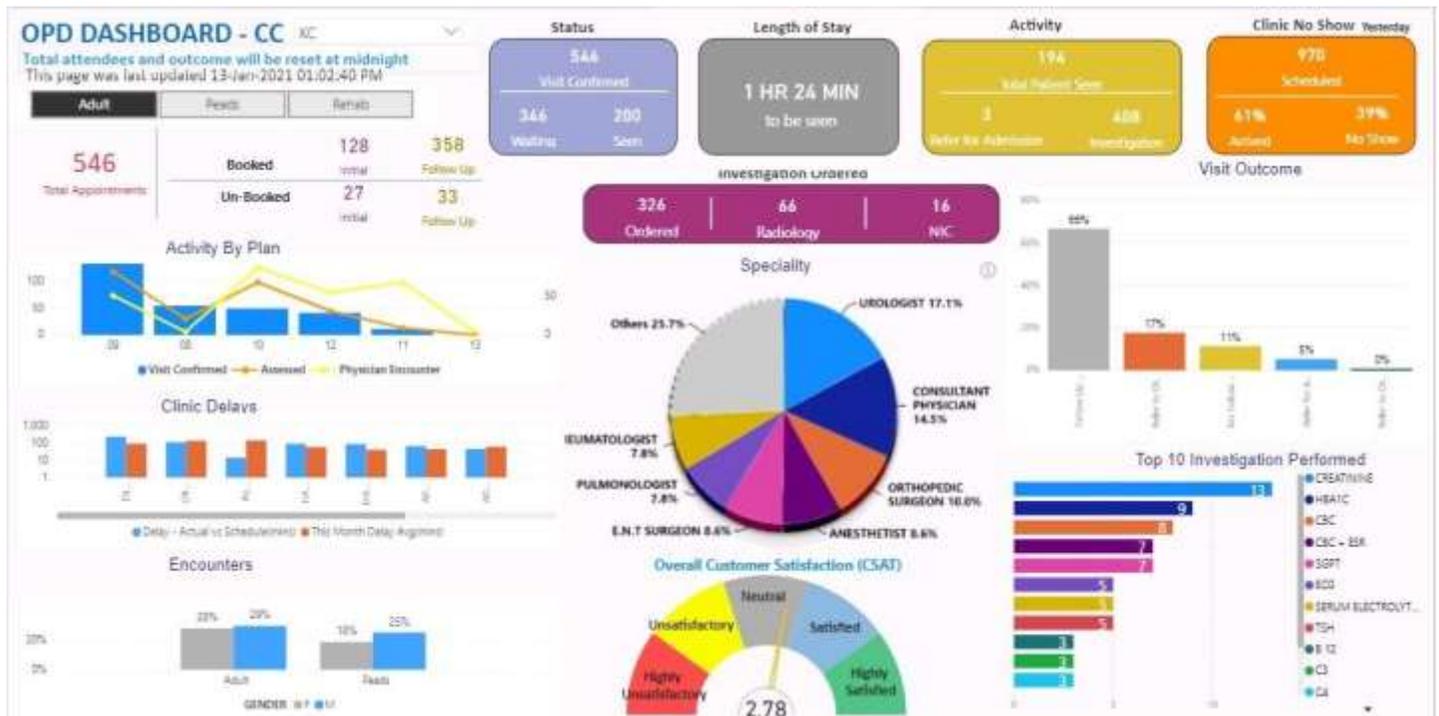


Following are few areas of the hospital which are converted in this dashboard.

- Total New Patients Arrived in Hospital (Break up)
- Pediatrics (Break up)
- Deliveries (Break up)
- OT (Scheduled and Performed procedures)
- Dialysis session (Active and completed session)
- ER and OP (Average wait time and cost per patient)
- Investigation (Ordered and performed)
- Pharmacy (Medication Ordered and Dispensed)
- OPD Patient Encounter Line and Bar Graph
Showing trend of current month and the same month last year)
- Emergency Patient Encounter Line and Bar Graph
Showing trend of current month and the same month last year)
- Discharge Outcome bar graph of ER and Inpatients
- Ambulatory day care Bar and line graph
- Top 6 Procedure count horizontal Bar graph
- Count of patient admission by admitting speciality
- Count of patient top 10 areas.
- Overall customer satisfaction gauge.
- Discharges vs mortality of Inpatients and ER.

Hospital (Consultant Clinic Dashboard)

This Consulting Clinic dashboard is designed to show KPIs & graphs linked with key activities that directly or indirectly impact patient satisfaction, such as daily appointments/visits, clinic delays, visit outcome, total encounters etc. This dashboard will be displaying data in 3 sub modes i.e. Adult, Peads and Rehab. All the KPIS and data values should be calculated on the basis of clinics which are linked with these modes.

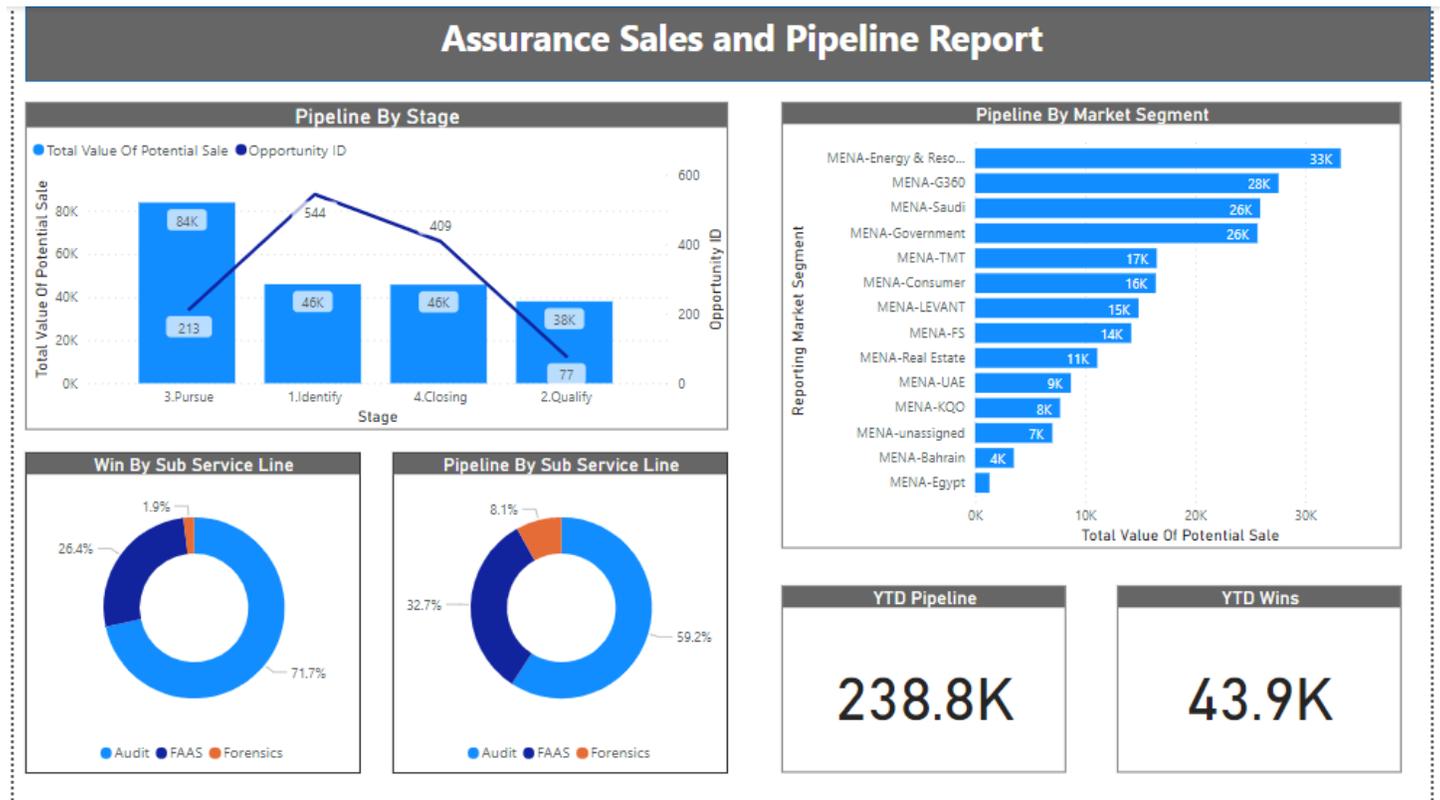


Following are few areas of the consultant clinic which are covered in this dashboard are.

1. CC Status (Visit confirmed, Patients waiting and seen)
2. Length of stay of a patient in CC.
3. Activities (Patient Seen, Investigation ordered and patients referred for admission)
4. No show patients and scheduled and arrived
5. Total appointments booked and un booked.
6. Investigation (Ordered, NIC and radiology count)
7. Pharmacy (Medication Ordered and Dispensed)
8. Visit outcome bar graph.
9. Activity by plan bar and line graph. (Patient Visit Confirmed, Patient assessed at vital area and Patient encounter by physician)
10. Clinic delay bar graph.
11. Visit confirmed Pie graph by specialty.
12. Patient encounter bar graph by gender.
13. Overall customer satisfaction gauge.
14. Top 10 Investigation Performed count horizontal Bar graph.

Sales and Pipeline report

This report is designed to show KPIs & graphs linked with data of the Sales and Pipeline information (Opportunity Management System) for Assurance service line. The data in this report is the opportunities/ sales. By stages/ outcome along with their expected revenues. It is also used to track the movement/progress of opportunities and to understand how close the customer is to winning an opportunity. The report is designed to assist the Leadership in monitoring pipeline activities.



1) Stages: There are four pipeline stages to indicate how far along the pursuit process we are with an opportunity. The stages are Identify, Qualify, Pursue, or Closing.

2) Outcome: It has 3 splits. Won, Lost and Declined. It defines if an Opportunity was won by EY, Lost to its competitors or declined by the Client.

3) Anticipated Win Date: Date by which the decision is likely to be made regarding the opportunity and we expect to have completed all internal processes.

4) Effective Close Date: The date the opportunity outcome is set.

6) Effective Open Date: The date the opportunity was opened.

7) Total Value of Potential Sale: This indicates the Sale Value of an opportunity. Usually in USD.

8) Pursuit Leader Name: The person who manages and leads the opportunity.

Note this report data set is not real

HR Employee Data Analysis

The first page draws a visual analysis between salary and employees their respective states and meeting majority of KPIs related to Human Resource.



The second page detailed the average values and amounts measured against different variables.



The third one is business unit/region report. Apart from different charts, matrix tables, slicers, DAX Calculations are used to generate Dynamic Measures and Dynamic Dimensions.

