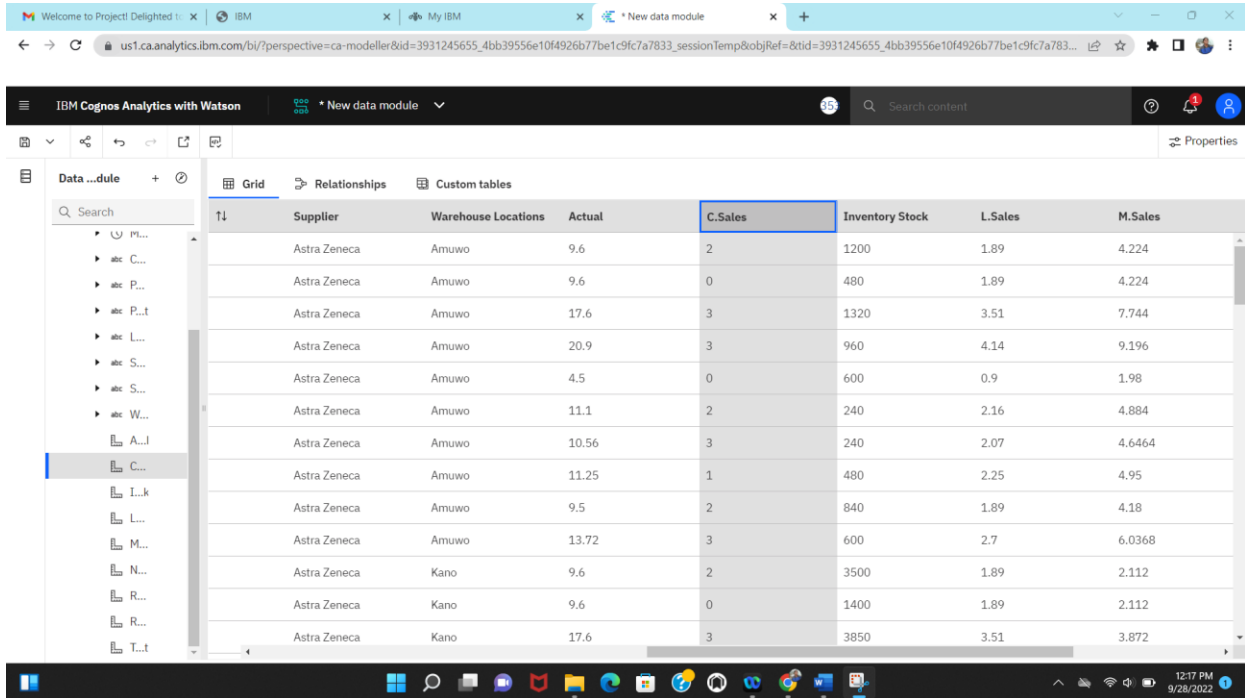


ASSIGNMENT-2

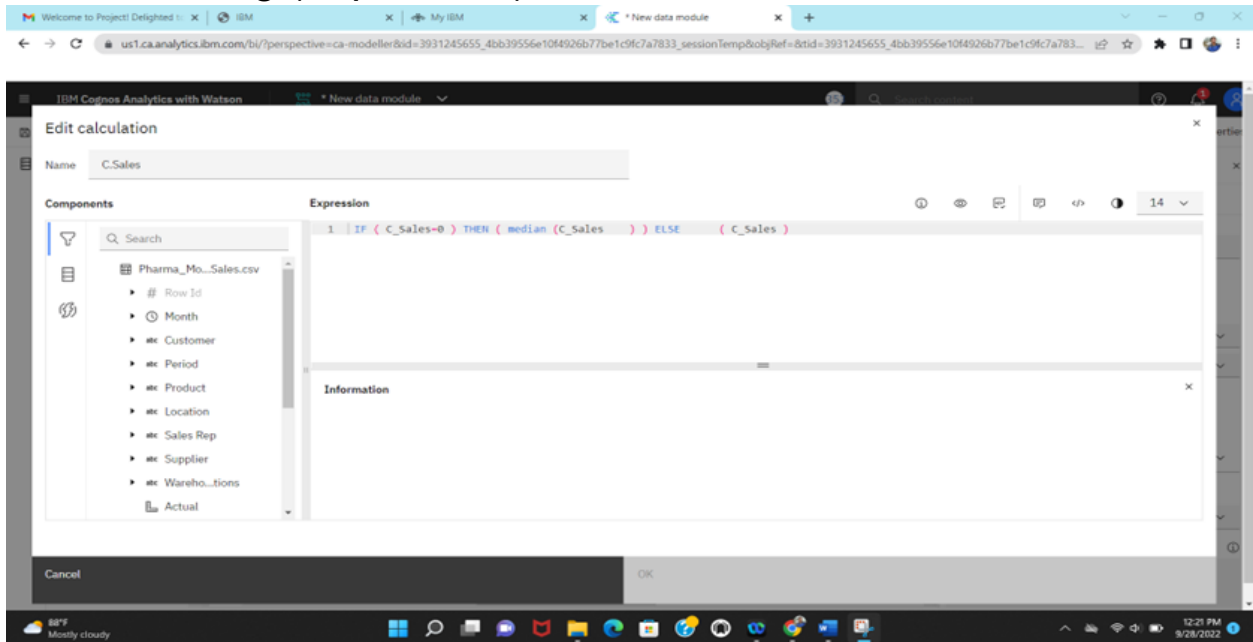
Data Cleaning:(Before)



The screenshot shows the IBM Cognos Analytics interface. The main view is a data grid with the following columns: Supplier, Warehouse Locations, Actual, C.Sales, Inventory Stock, L.Sales, and M.Sales. The 'C.Sales' column is highlighted. The data rows show various suppliers and their sales figures. The interface includes a search bar, a sidebar with a file explorer, and a top navigation bar.

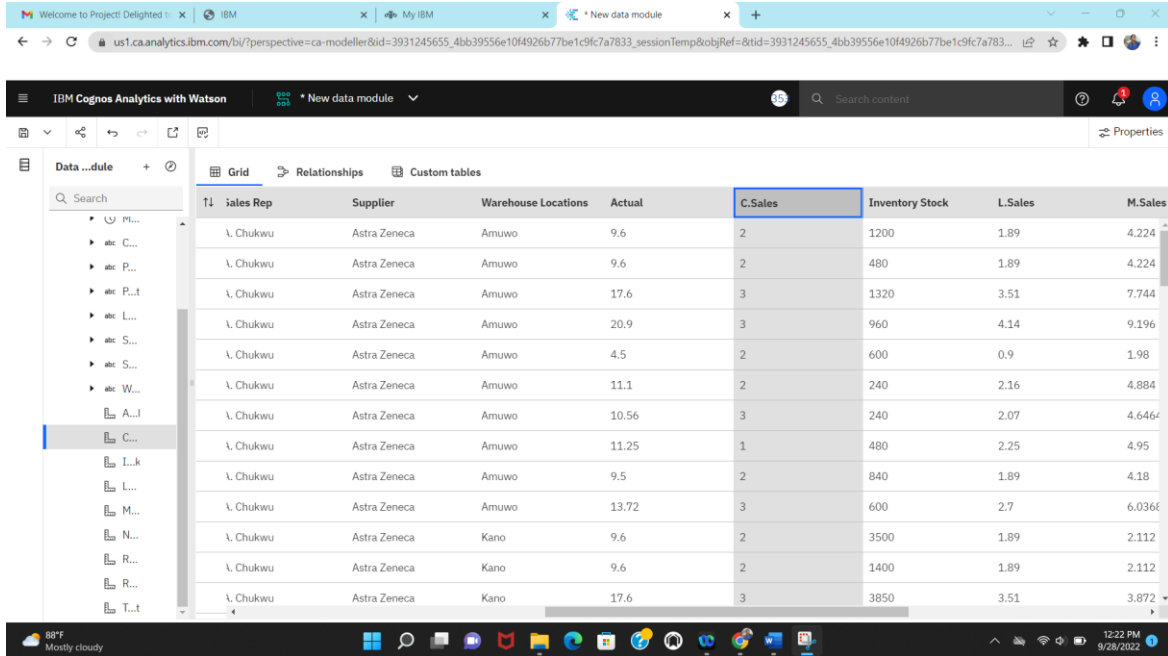
| Supplier | Warehouse Locations | Actual | C.Sales | Inventory Stock | L.Sales | M.Sales |
|--------------|---------------------|--------|---------|-----------------|---------|---------|
| Astra Zeneca | Amuwo | 9.6 | 2 | 1200 | 1.89 | 4.224 |
| Astra Zeneca | Amuwo | 9.6 | 0 | 480 | 1.89 | 4.224 |
| Astra Zeneca | Amuwo | 17.6 | 3 | 1320 | 3.51 | 7.744 |
| Astra Zeneca | Amuwo | 20.9 | 3 | 960 | 4.14 | 9.196 |
| Astra Zeneca | Amuwo | 4.5 | 0 | 600 | 0.9 | 1.98 |
| Astra Zeneca | Amuwo | 11.1 | 2 | 240 | 2.16 | 4.884 |
| Astra Zeneca | Amuwo | 10.56 | 3 | 240 | 2.07 | 4.6464 |
| Astra Zeneca | Amuwo | 11.25 | 1 | 480 | 2.25 | 4.95 |
| Astra Zeneca | Amuwo | 9.5 | 2 | 840 | 1.89 | 4.18 |
| Astra Zeneca | Amuwo | 13.72 | 3 | 600 | 2.7 | 6.0368 |
| Astra Zeneca | Kano | 9.6 | 2 | 3500 | 1.89 | 2.112 |
| Astra Zeneca | Kano | 9.6 | 0 | 1400 | 1.89 | 2.112 |
| Astra Zeneca | Kano | 17.6 | 3 | 3850 | 3.51 | 3.872 |

Data Cleaning:(Expression)



The screenshot shows the 'Edit calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'C.Sales'. The 'Expression' field contains the following formula: `IF (C_Sales=0) THEN (median (C_Sales)) ELSE (C_Sales)`. The 'Components' list on the left includes 'Pharma_Mo...Sales.csv', 'Row Id', 'Month', 'Customer', 'Period', 'Product', 'Location', 'Sales Rep', 'Supplier', 'Wareho...tions', and 'Actual'. The 'Information' tab is selected, showing a message: 'Information'. The dialog has 'Cancel' and 'OK' buttons at the bottom.

Data Cleaning:(After)



IBM Cognos Analytics with Watson

* New data module

Search content

Properties

Data module

Grid Relationships Custom tables

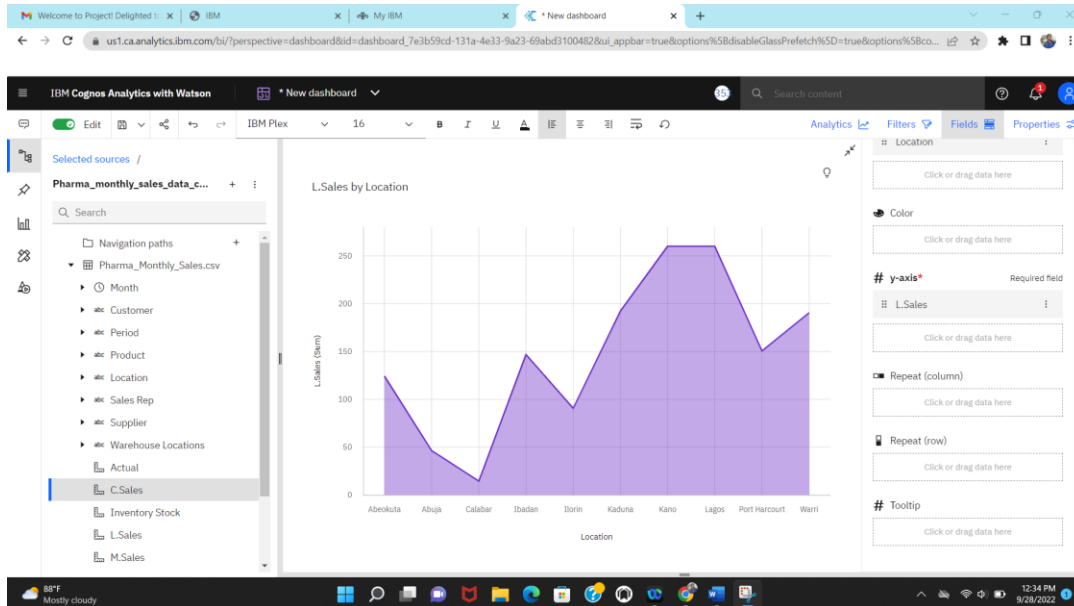
| Sales Rep | Supplier | Warehouse Locations | Actual | C.Sales | Inventory Stock | L.Sales | M.Sales |
|-----------|--------------|---------------------|--------|---------|-----------------|---------|---------|
| I. Chukwu | Astra Zeneca | Amuwo | 9.6 | 2 | 1200 | 1.89 | 4.224 |
| I. Chukwu | Astra Zeneca | Amuwo | 9.6 | 2 | 480 | 1.89 | 4.224 |
| I. Chukwu | Astra Zeneca | Amuwo | 17.6 | 3 | 1320 | 3.51 | 7.744 |
| I. Chukwu | Astra Zeneca | Amuwo | 20.9 | 3 | 960 | 4.14 | 9.196 |
| I. Chukwu | Astra Zeneca | Amuwo | 4.5 | 2 | 600 | 0.9 | 1.98 |
| I. Chukwu | Astra Zeneca | Amuwo | 11.1 | 2 | 240 | 2.16 | 4.884 |
| I. Chukwu | Astra Zeneca | Amuwo | 10.56 | 3 | 240 | 2.07 | 4.6464 |
| I. Chukwu | Astra Zeneca | Amuwo | 11.25 | 1 | 480 | 2.25 | 4.95 |
| I. Chukwu | Astra Zeneca | Amuwo | 9.5 | 2 | 840 | 1.89 | 4.18 |
| I. Chukwu | Astra Zeneca | Amuwo | 13.72 | 3 | 600 | 2.7 | 6.036 |
| I. Chukwu | Astra Zeneca | Kano | 9.6 | 2 | 3500 | 1.89 | 2.112 |
| I. Chukwu | Astra Zeneca | Kano | 9.6 | 2 | 1400 | 1.89 | 2.112 |
| I. Chukwu | Astra Zeneca | Kano | 17.6 | 3 | 3850 | 3.51 | 3.872 |

88°F Mostly cloudy 12:22 PM 9/28/2022

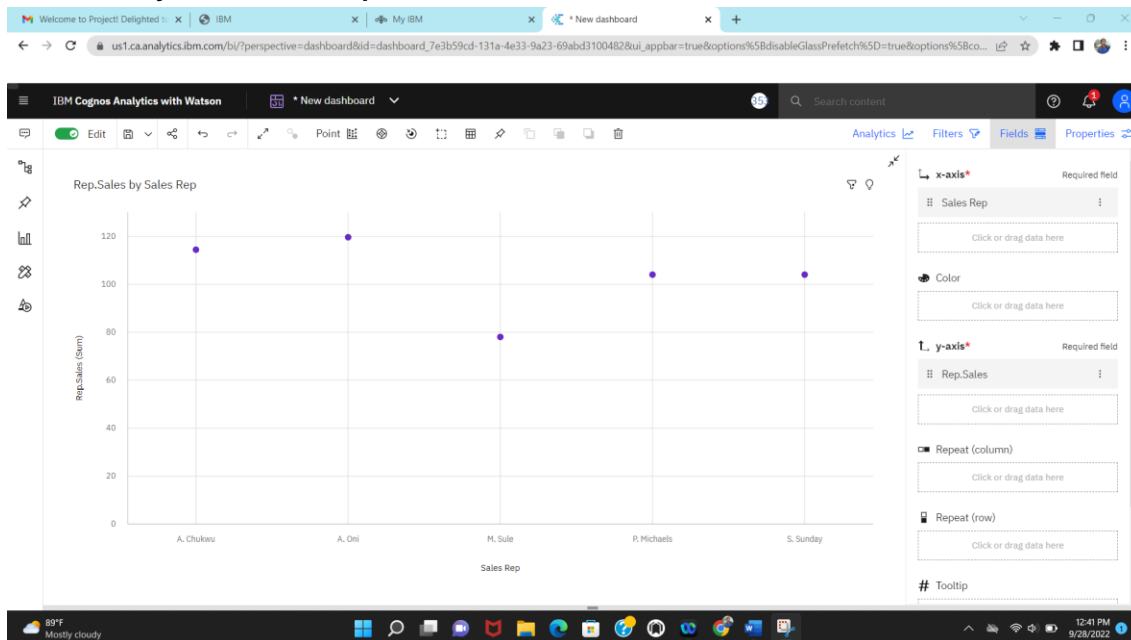
Data cleaning link:

[https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my folders%20Pharma monthly sales data cleaning suchita](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my%20folders%20Pharma%20monthly%20sales%20data%20cleaning%20suchita)

Data Visualization: Sales by location

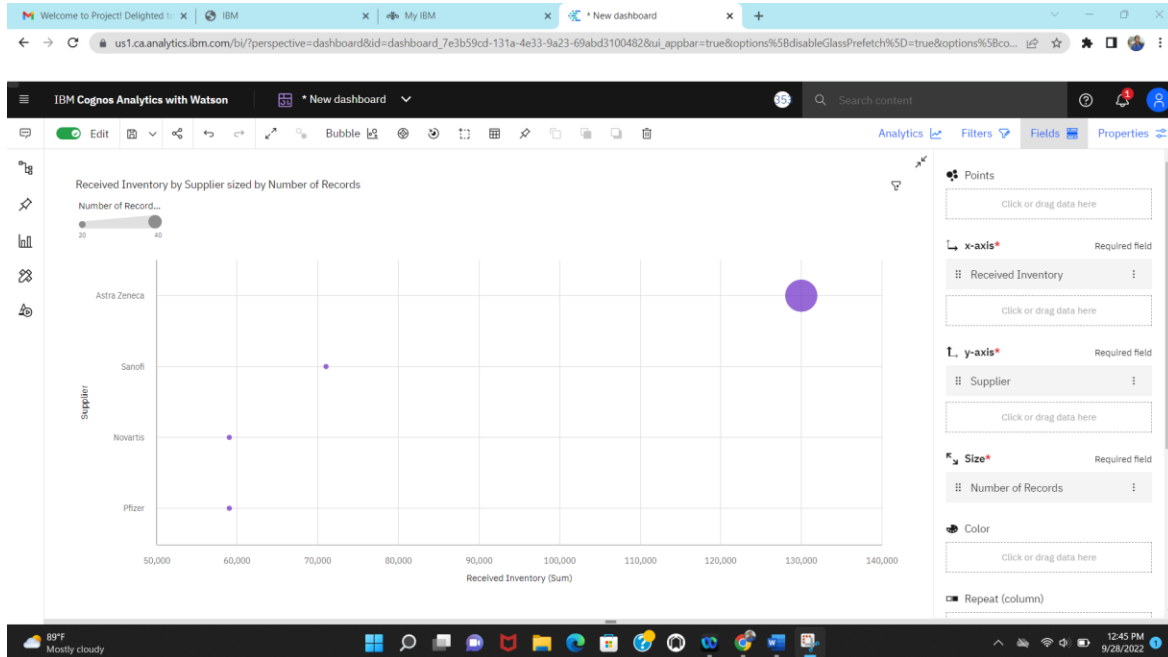


Data Visualization: Sales By Sales Representative.

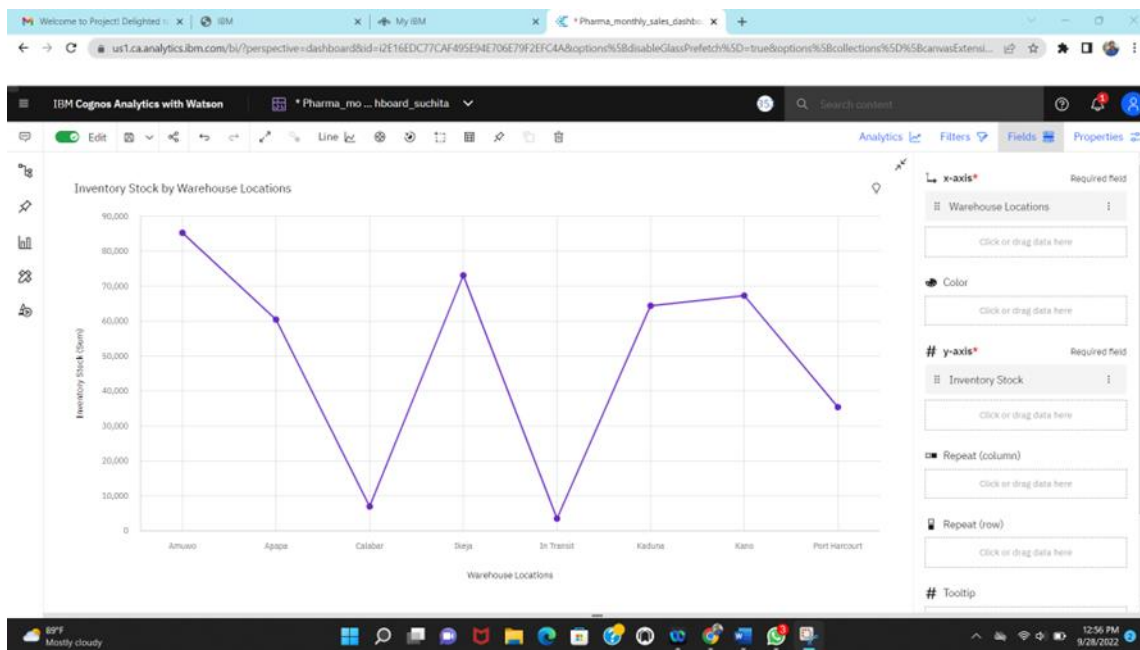


Data Visualization

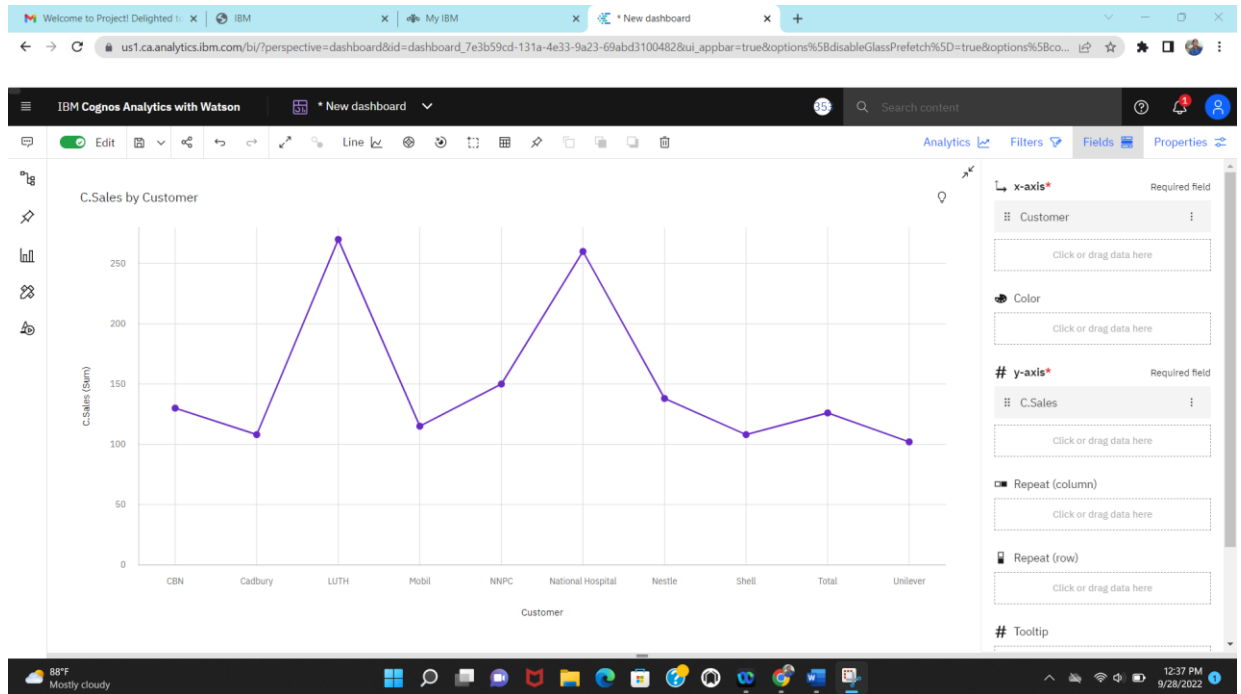
Received Inventory from supplier



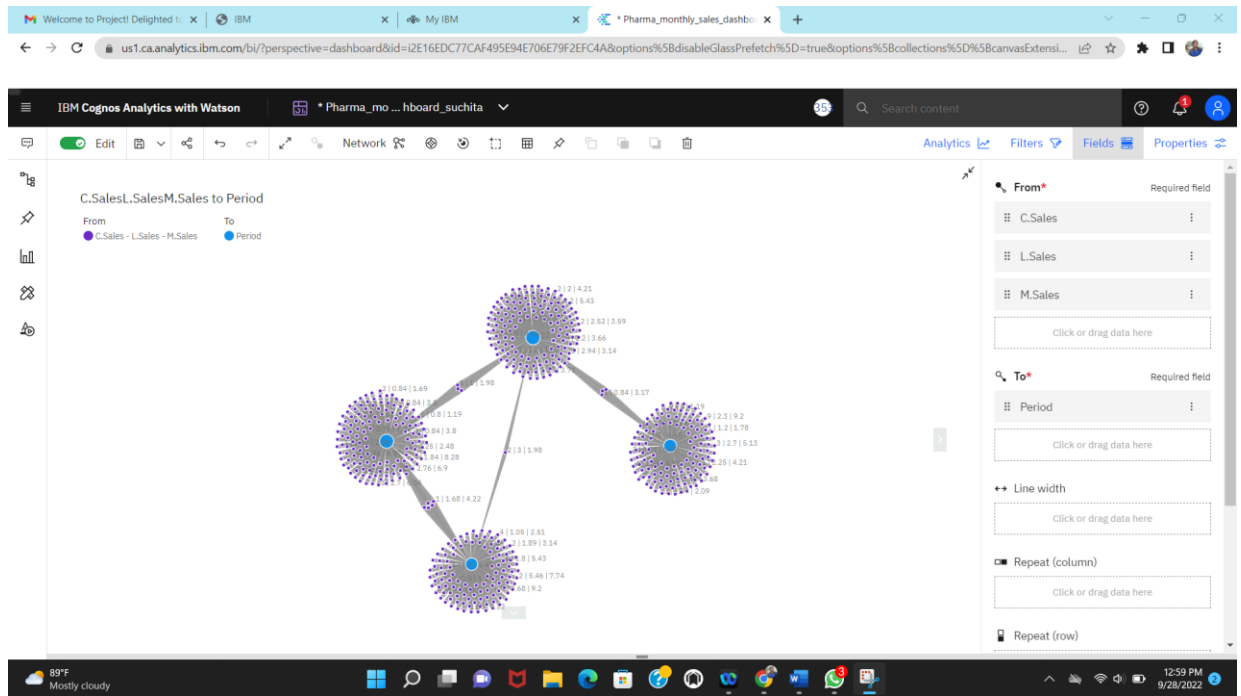
Inventory Stock for Warehouse Locations



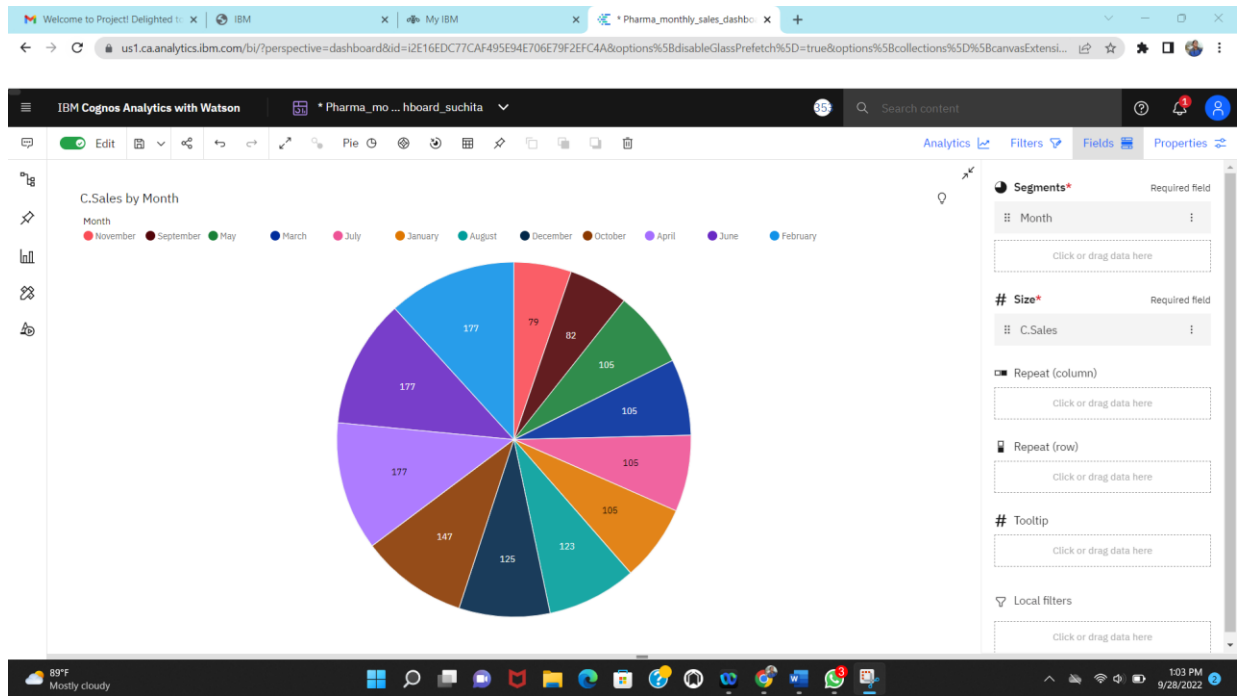
Data Visualization: Sale by Customer



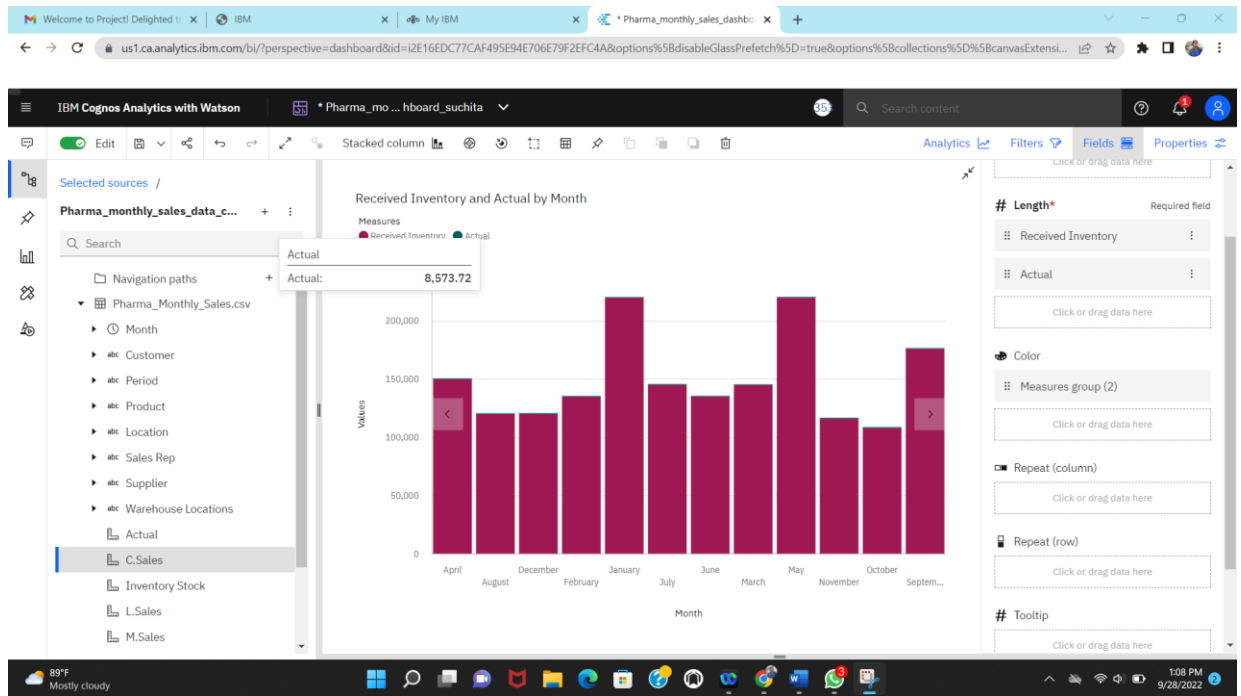
Sales trend



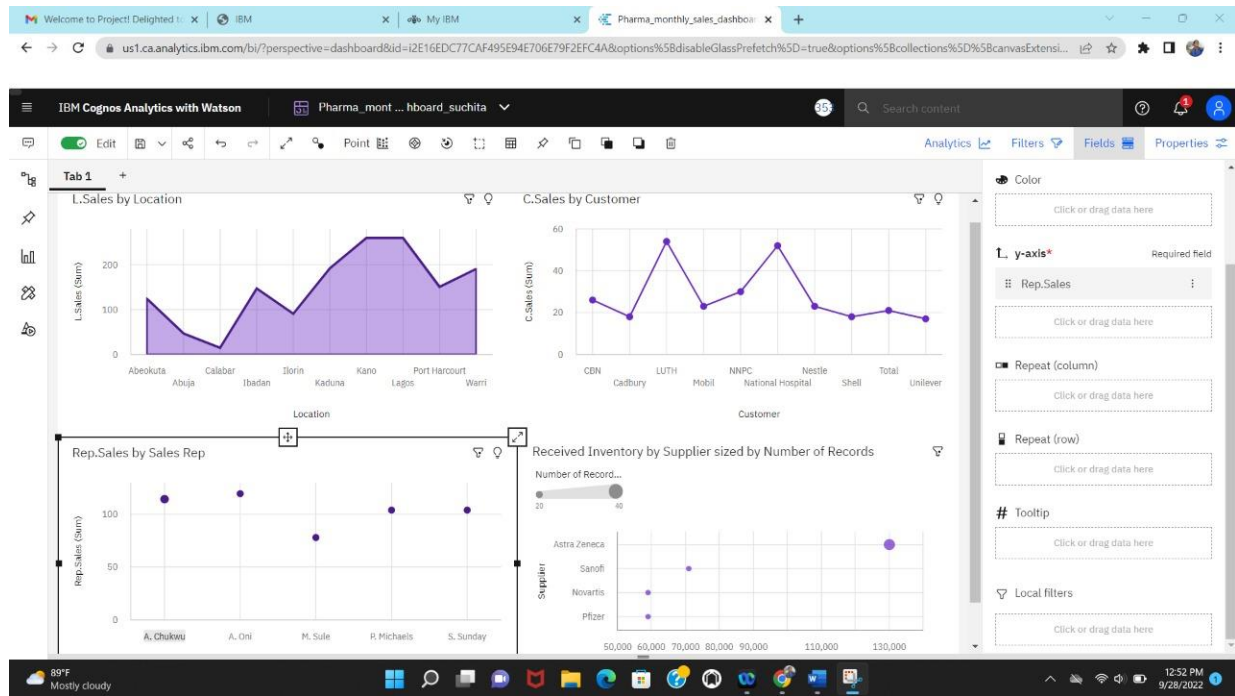
Data Visualization: Monthly Sales



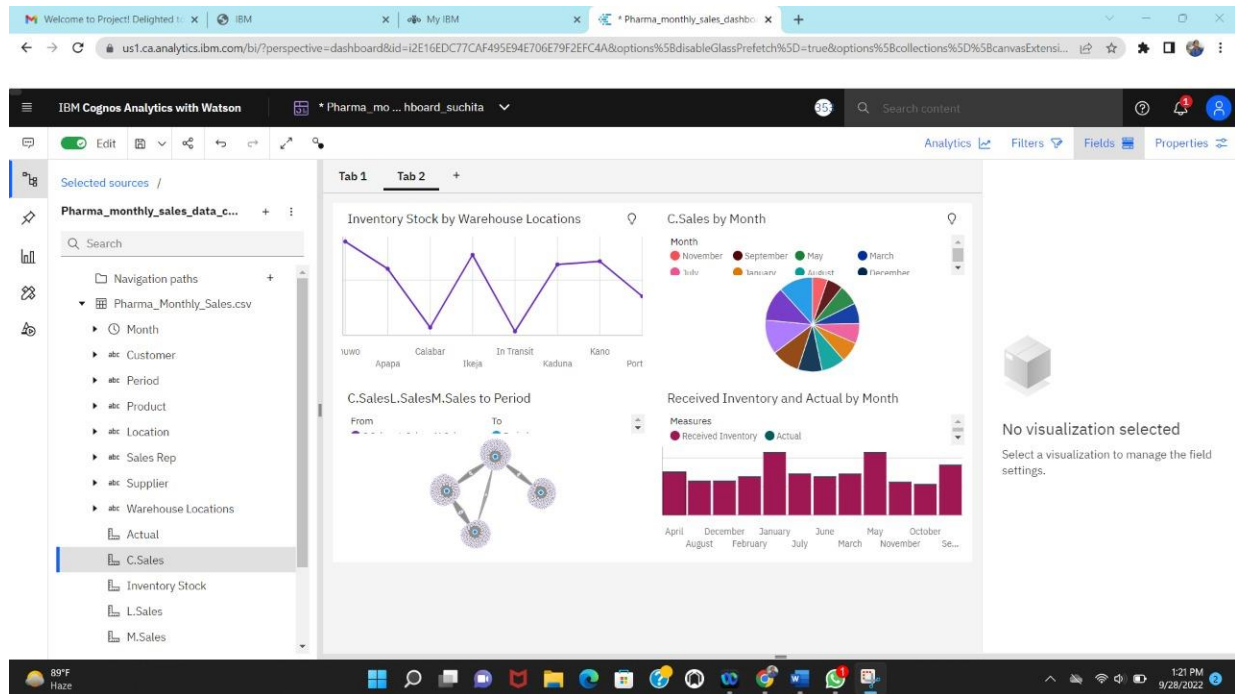
Actual and Received inventory by month



Interactive Dashboard:TAB1



Interactive Dashboard:TAB2



Interactive Dashboard link: TAB1

https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPharma_monthly_sales_dashboard_suchita&action=view&mode=dashboard&subView=model0000018382e20026_0000000

Interactive Dashboard link: TAB2

https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPharma_monthly_sales_dashboard_suchita&action=view&mode=dashboard&subView=model0000018382fbf828_0000000