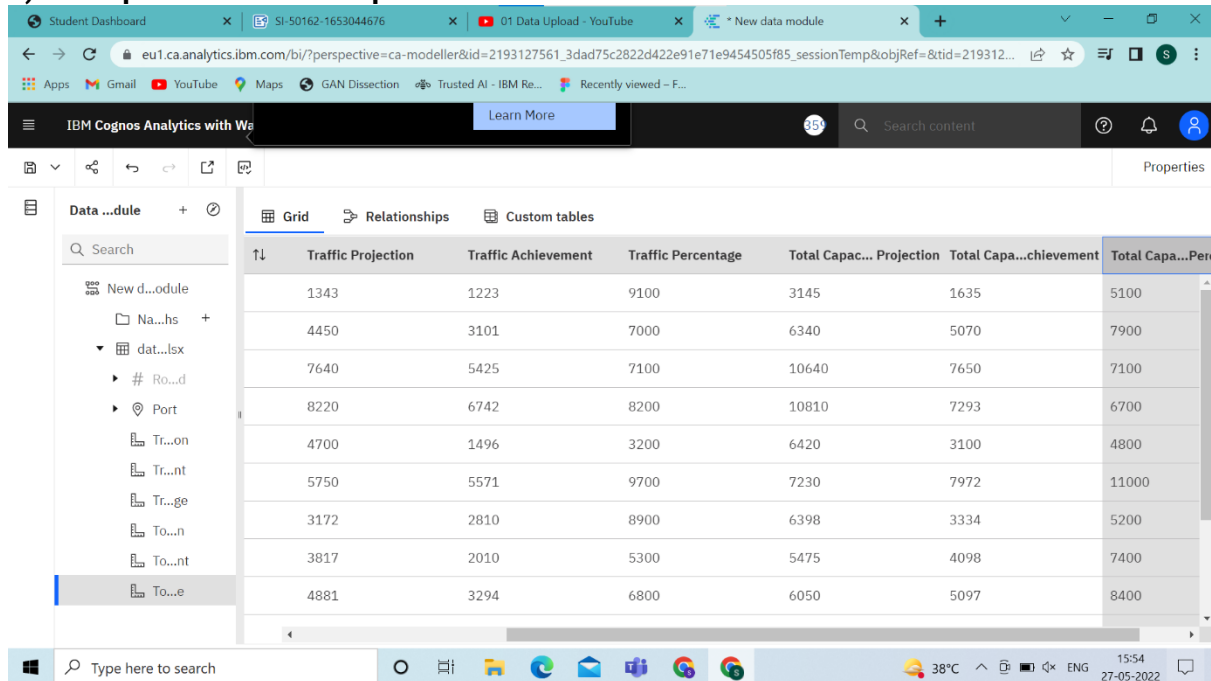


NAME:Snigdha Singh

REG.NO.:20BCE0545

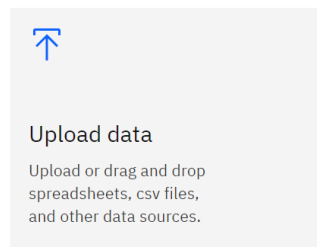
DATA ANALYTICS: Major Port Traffic And Capacity Analytics Using IBM Cognos Analytics

1)Data Upload and Data Preparation



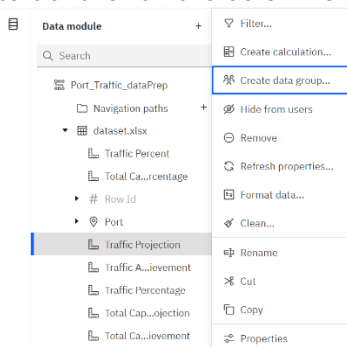
Traffic Projection	Traffic Achievement	Traffic Percentage	Total Capacity Projection	Total Capacity Achievement	Total Capacity Percentage
1343	1223	9100	3145	1635	5100
4450	3101	7000	6340	5070	7900
7640	5425	7100	10640	7650	7100
8220	6742	8200	10810	7293	6700
4700	1496	3200	6420	3100	4800
5750	5571	9700	7230	7972	11000
3172	2810	8900	6398	3334	5200
3817	2010	5300	5475	4098	7400
4881	3294	6800	6050	5097	8400

->I went to ibm.com logged in using my credentials and launched data analytics using watson and pressed on the upload data option



->I selected the dataset I wanted (dataset.xlsx)

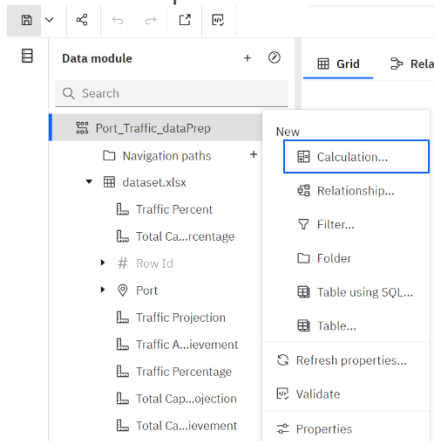
->Next we renamed the columns as given in the project details to rename we selected the three dots and go to the rename option and rename it to whatever we want similarly we need to do it for all the columns



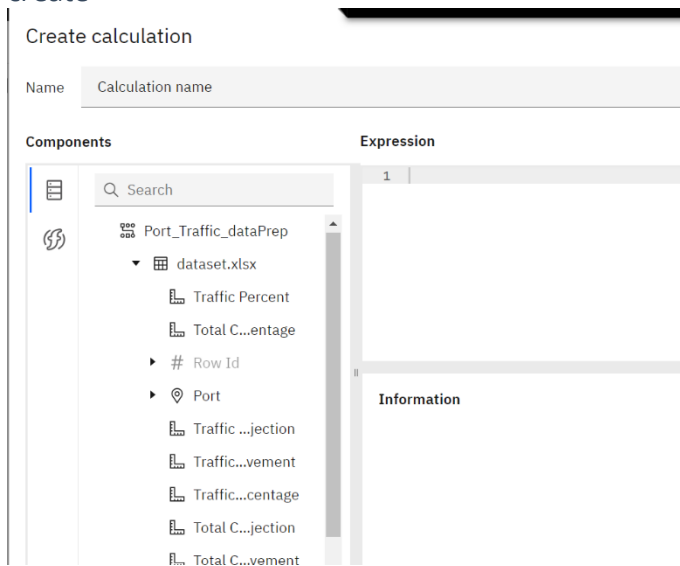
2)Preparing Calculations

- i. Traffic Percentage as
Traffic Achievement / Traffic Projection
- ii. Total Capacity Percentage as
Total Capacity Achievement / Total Capacity Projection

To do this we need to go to the new module option and right click here then press on calculation option



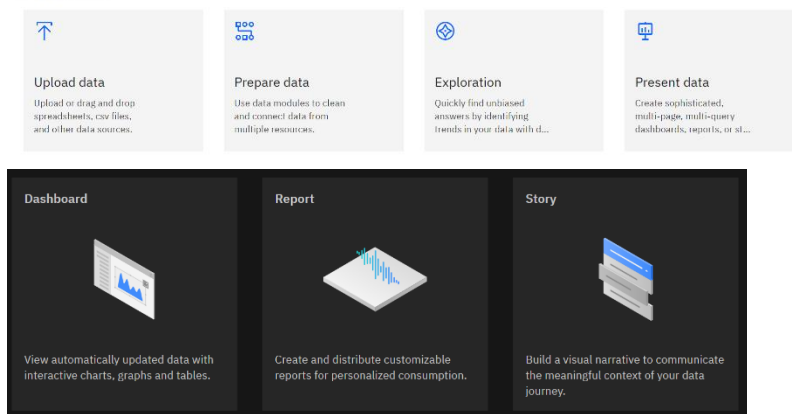
In the calculation option include the columns that are required for the calculation (drag and drop) and then rename the new column at the end validate the calculation and the press create



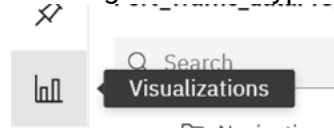
Traffic Percent	Total Capacity Percentage	Row Id	Port	Traffic Projection	Traffic Achievement
91.06%	51.99%	1	Kolkata	1343	1223
69.69%	79.97%	2	Haldia	4450	3101
71.01%	71.90%	3	Paradeep	7640	5425
82.02%	67.47%	4	Visakhapatnam	8220	6742
31.83%	48.29%	5	Ennore	4700	1496
96.89%	110.26%	6	Chennai	5750	5571
88.59%	52.11%	7	Tuticorin	3172	2810
52.66%	74.85%	8	Cochin	3817	2010
67.49%	84.25%	9	NMPT	4881	3294

How to make visualizations

->Go to Present data option and select the dashboard



->Then go from the type of dashboard select the one suitable for your visualisation



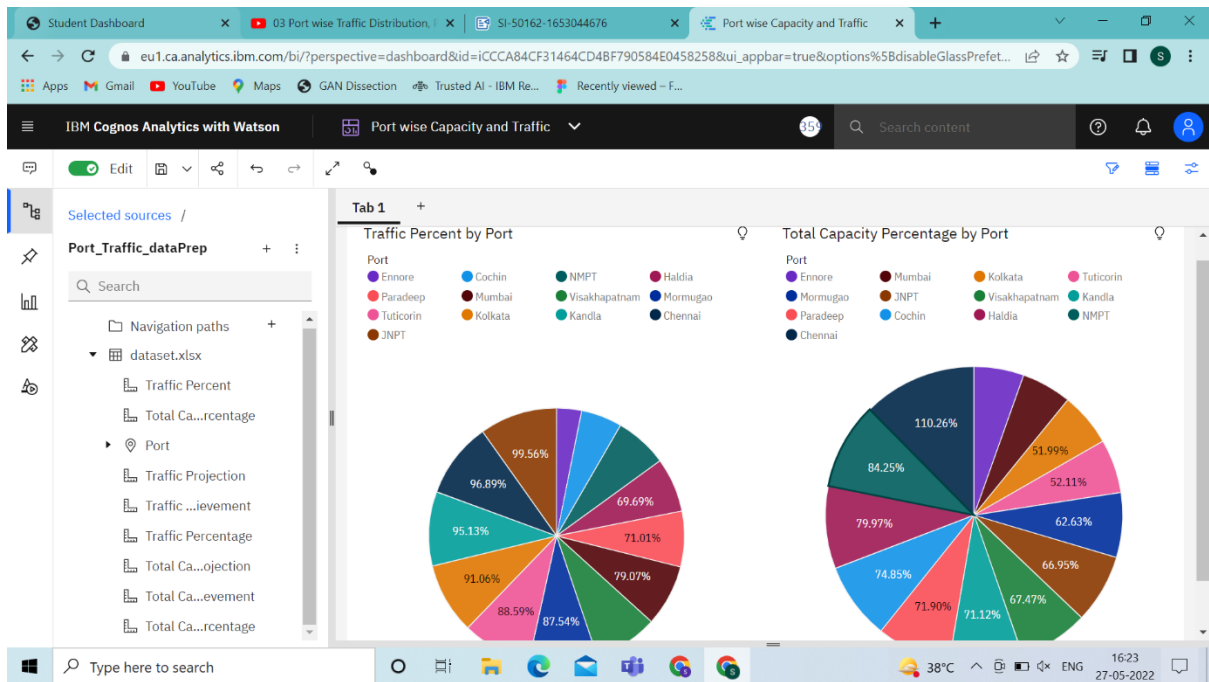
->After selecting the visualization to be used add the columns based on utility to all the blanks in the visualizations

->Go to properties option to add any new properties to the respective charts and you will have the final result

Port wise Traffic and Capacity Distribution

Link to DashBoard:

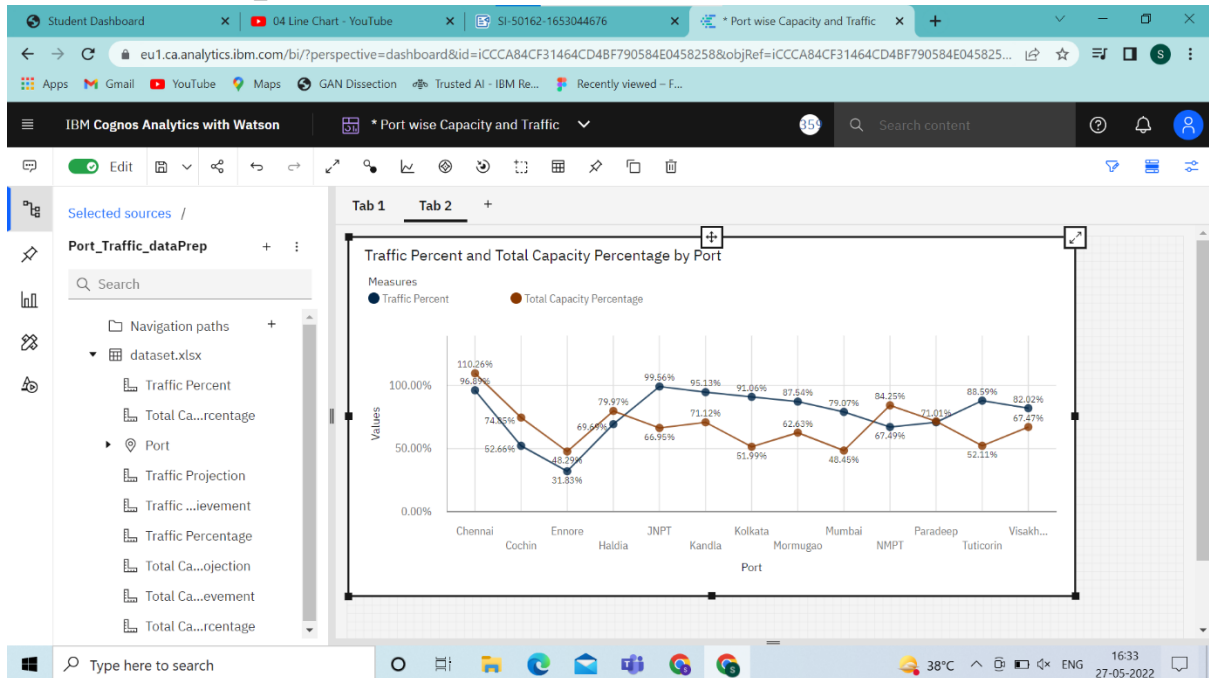
https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model00000181051e1691_00000000



Port-Wise Traffic Vs Capacity By Line Chart

Link to dashboard:

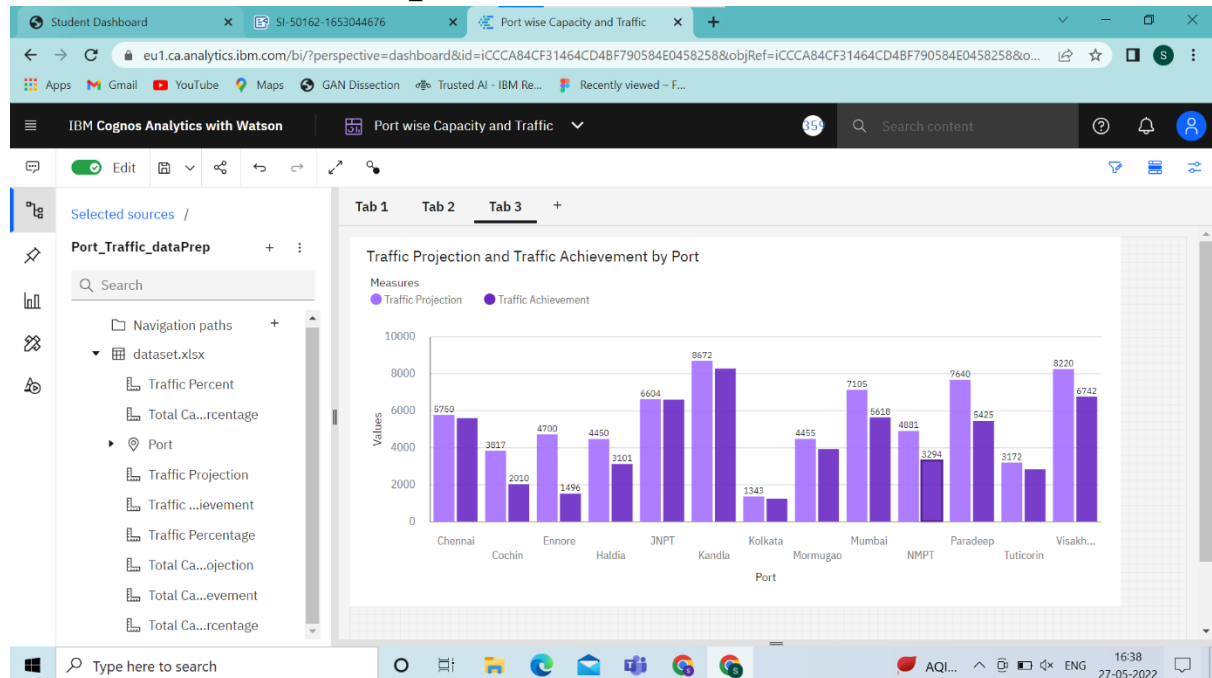
https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model00001810527bd28_00000000



Port-Wise Traffic Projected Vs Achieved By Column Chart

Link to

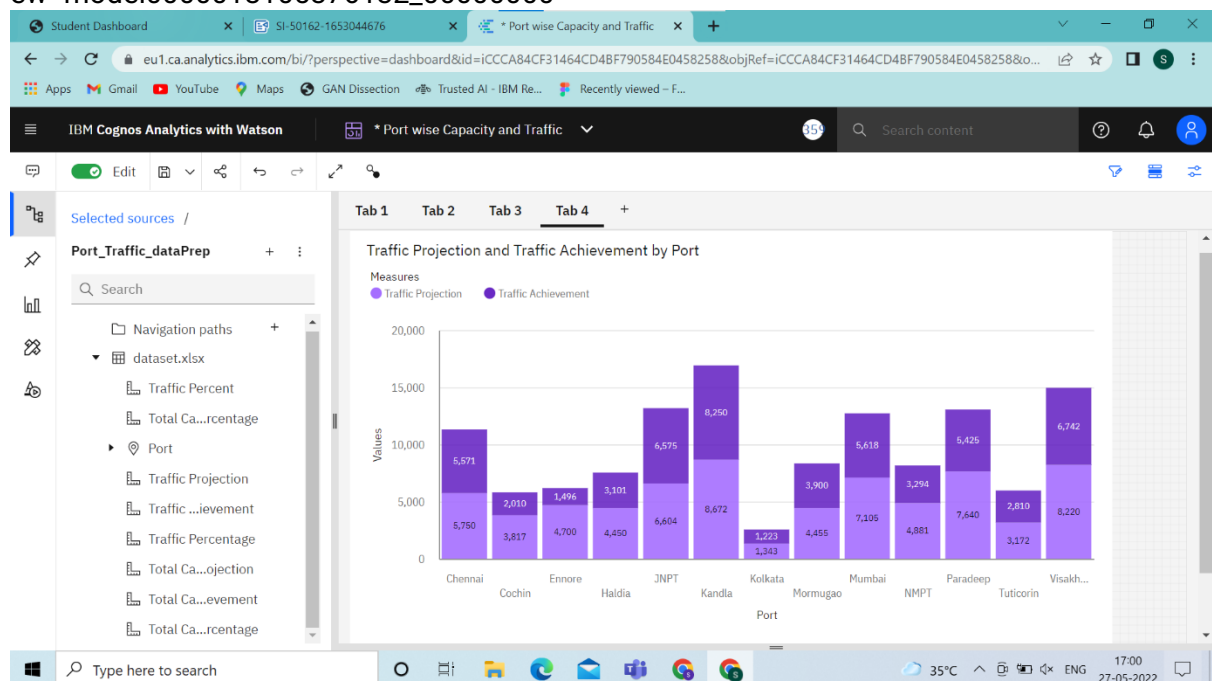
dashboard:https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model0000018105312937_00000000



Port-Wise Traffic Projected Vs Achieve By Stacked Column Chart

Link to

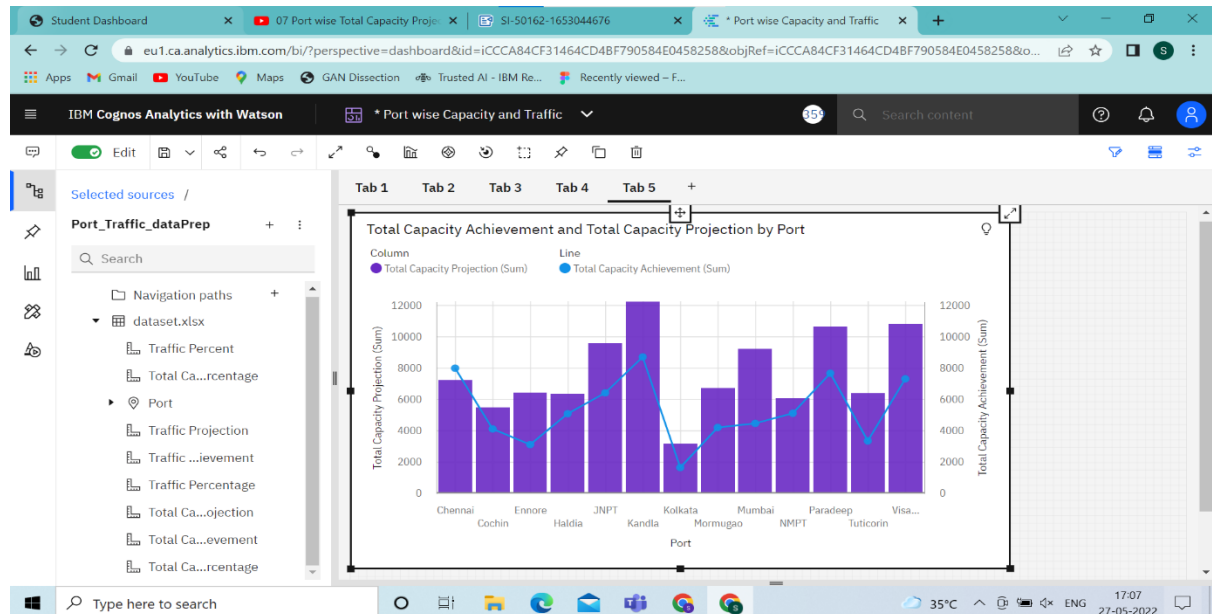
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Port-Wise Total Capacity Projects Vs Total Capacity Achieve By Line And Bar Chart

Link to

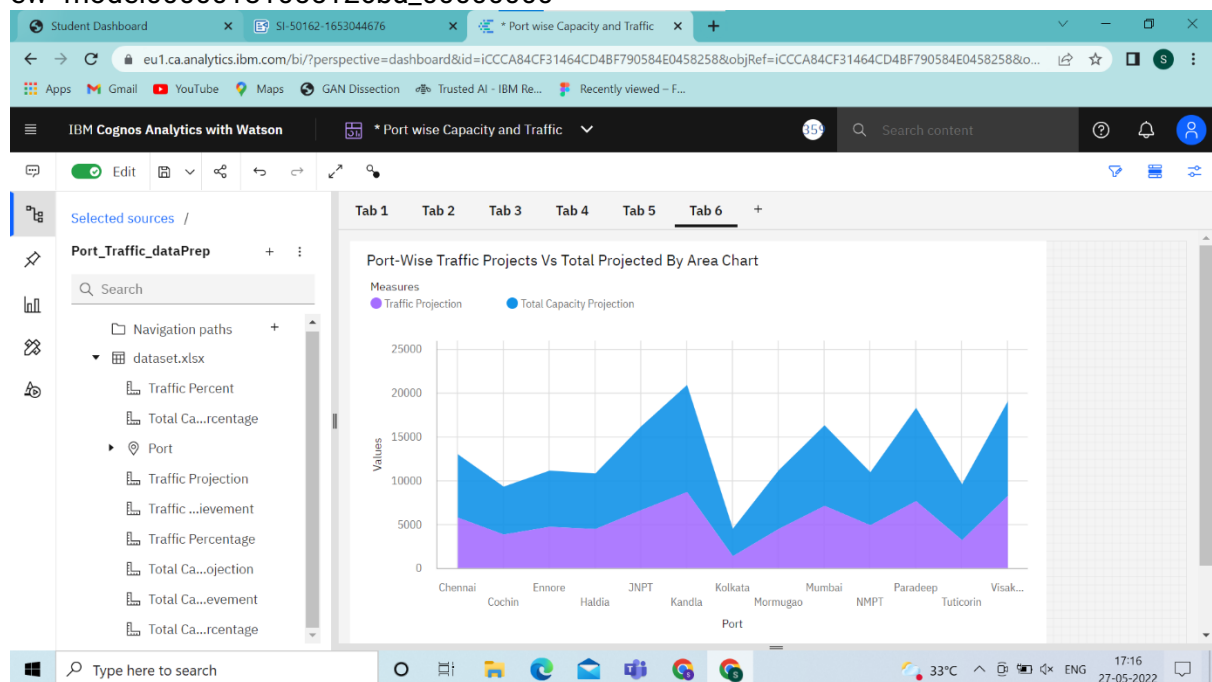
dashboard:https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model000001810549a691_00000000



Port-Wise Traffic Projects Vs Total Projected By Area Chart

Link to

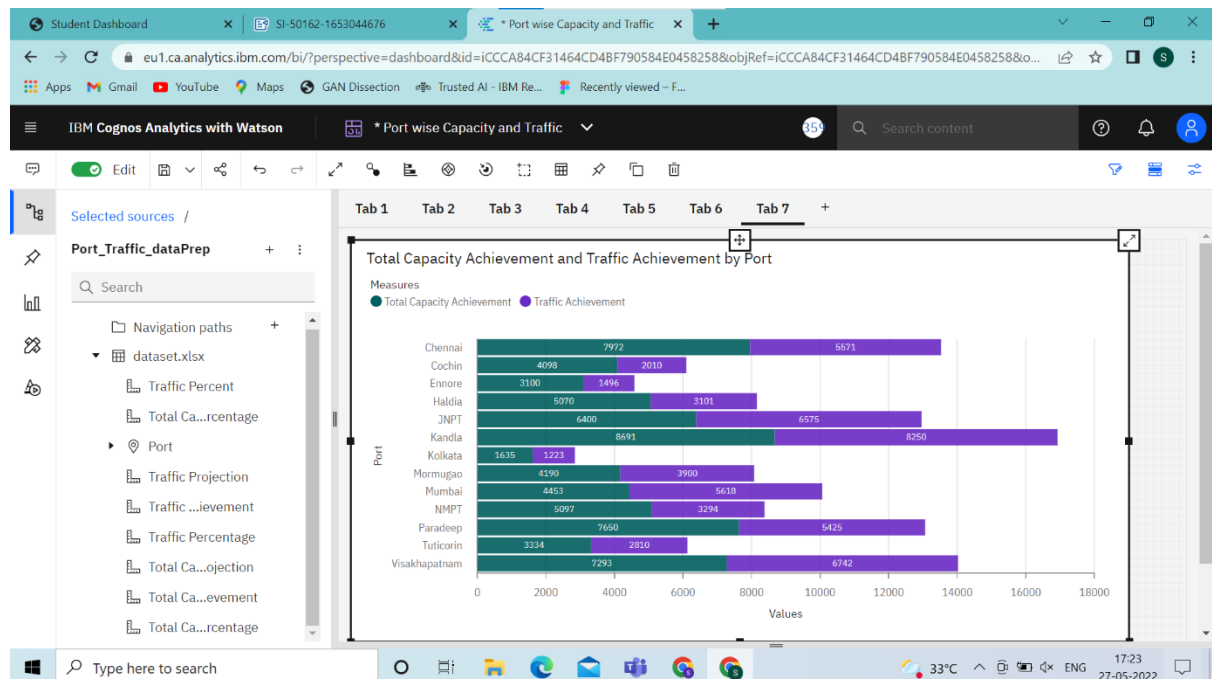
dashboard:https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model00000181055126ba_00000000



Port-Wise Total Capacity Achieve, Traffic Achieved Using Stacked Bar

Linked to the

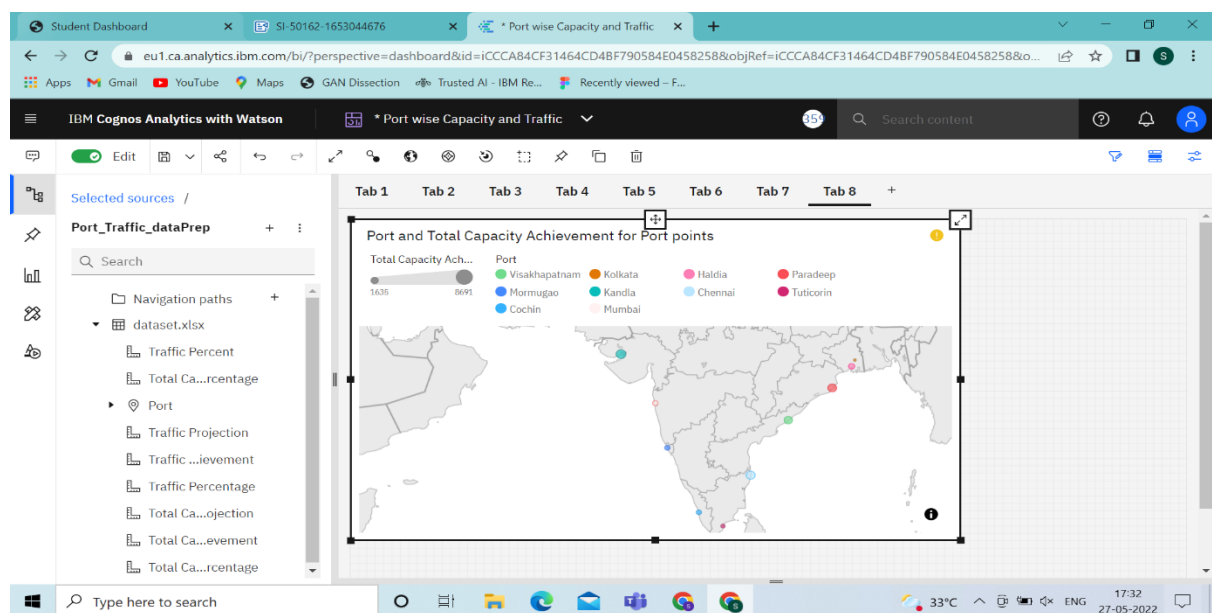
dashboard:https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model000001810559c660_00000000



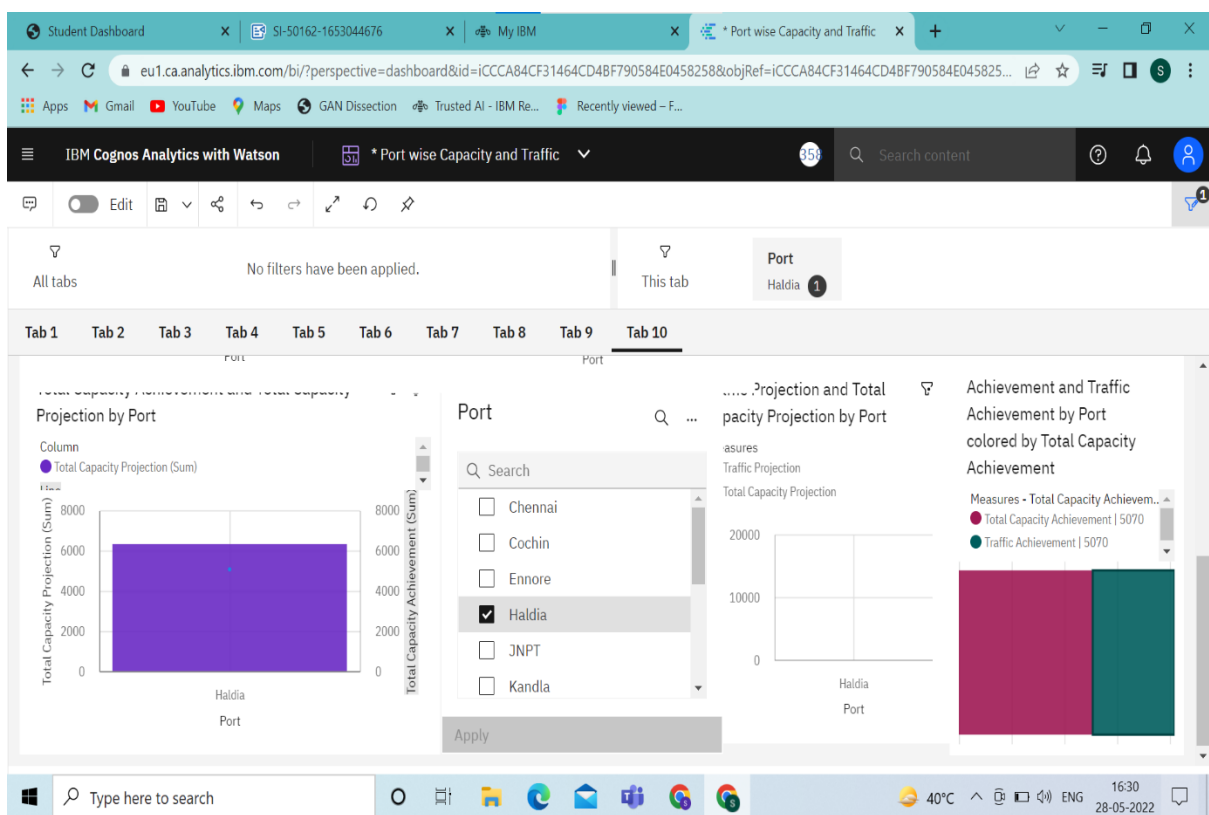
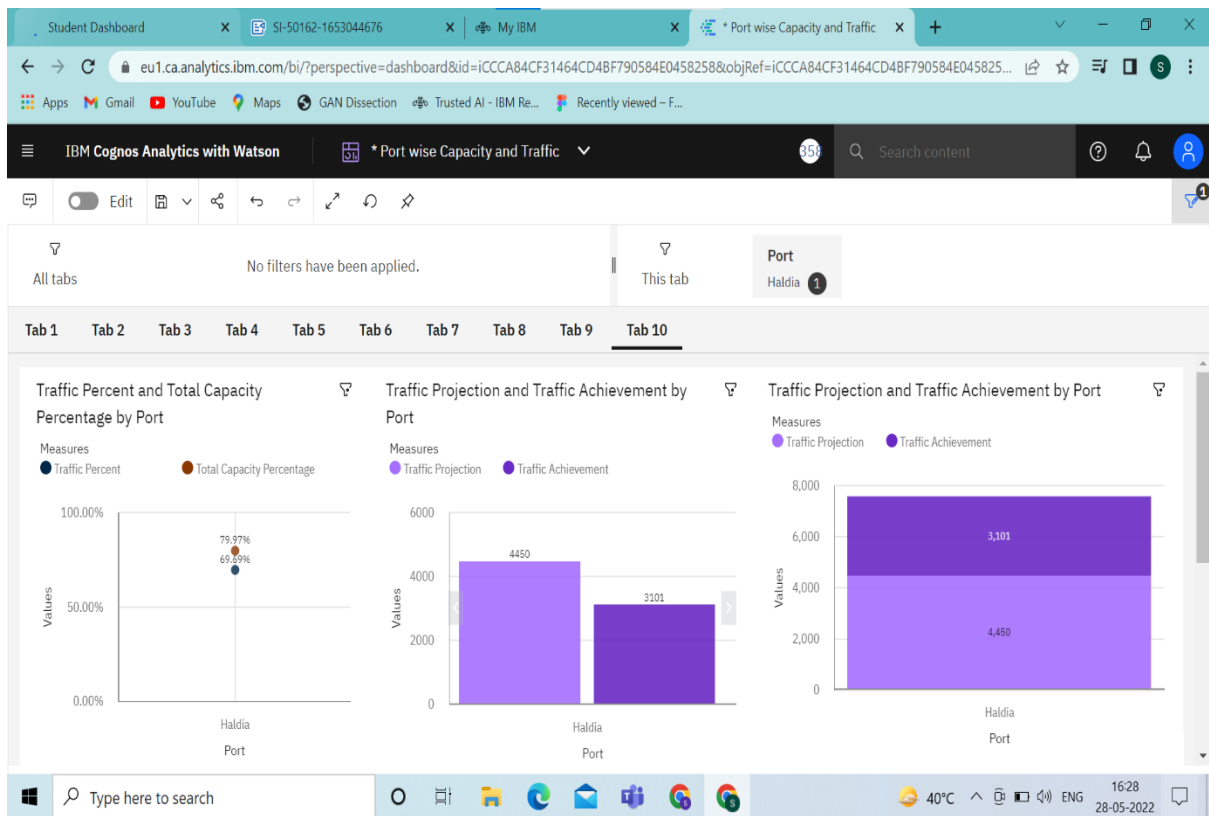
Port-Wise Total Capacity Achieved Using Map

Link to the

Dashboards:https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model00000181055fabe_b_00000000



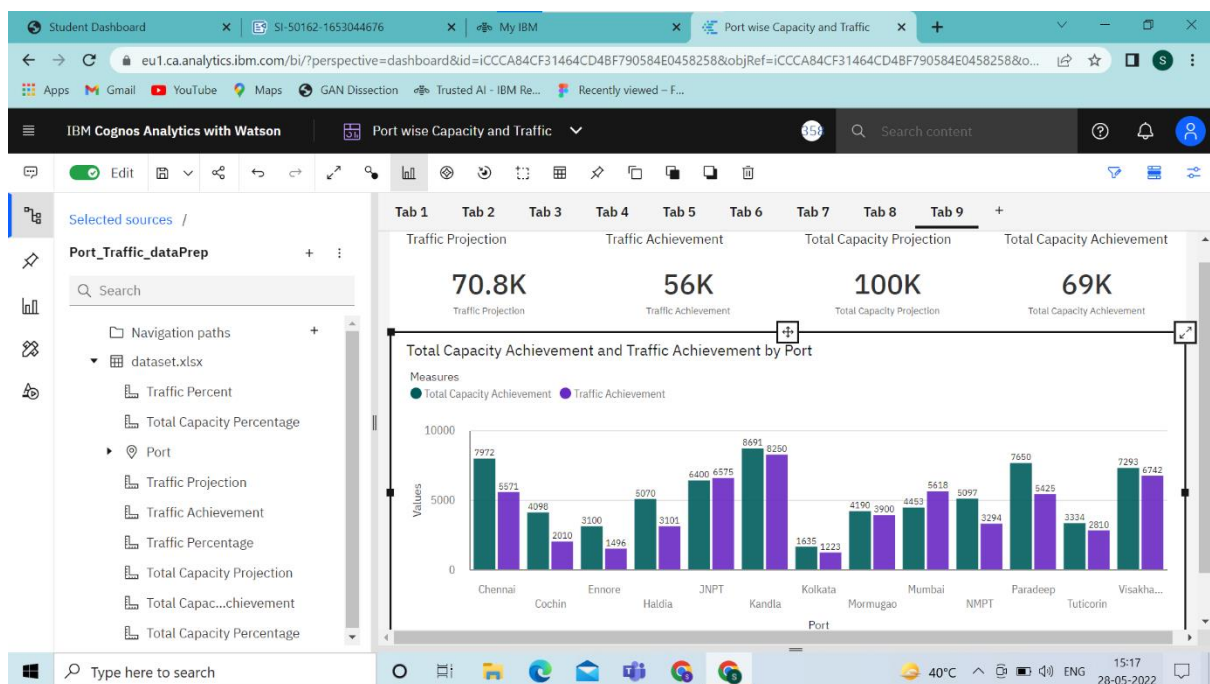
Filters: by port



Summary Cards And Visual Using Total Capacity Vs Actual Capacity Column Chart

Dashboard link:

https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FPort%2Bwise%2BCapacity%2Band%2BTraffic&action=view&mode=dashboard&subView=model00001810a0280d1_00000000



Advantages of creating a dashboard:

Total visibility of the dataset

Can perform comparison of a single field with various different fields in a single screen

Makes conclusion of the dataset easier to read

Increased productivity

Usefulness of Dashboard:

With multiple graphs in one screen it became easier for us to compare and conclude

Conclusion:

Total Capacity and traffic achievement, projection is the highest for the port Kandla so overall traffic percentage and capacity percentage also becomes the highest for kandla port only in my dataset

Dashboard creation is an excellent method for data presentation for a laymen to understand and predict future pattern .IBM cognos is relatively easier and more classified method of data analysis