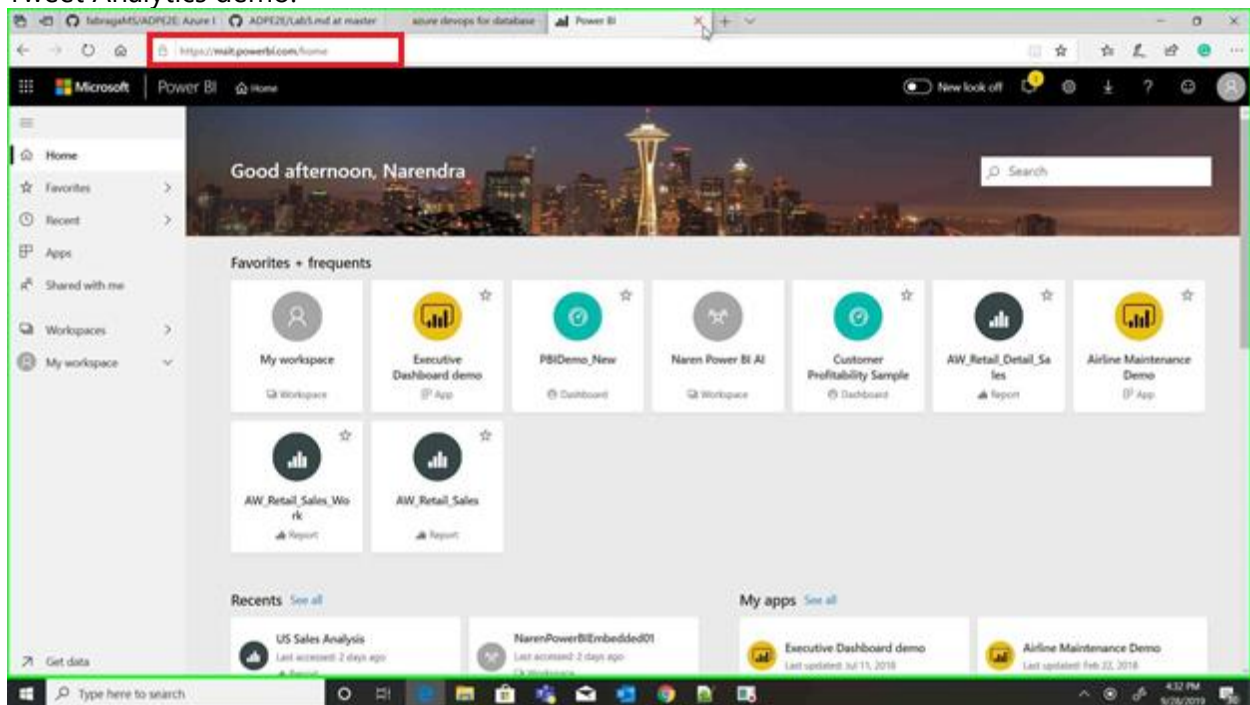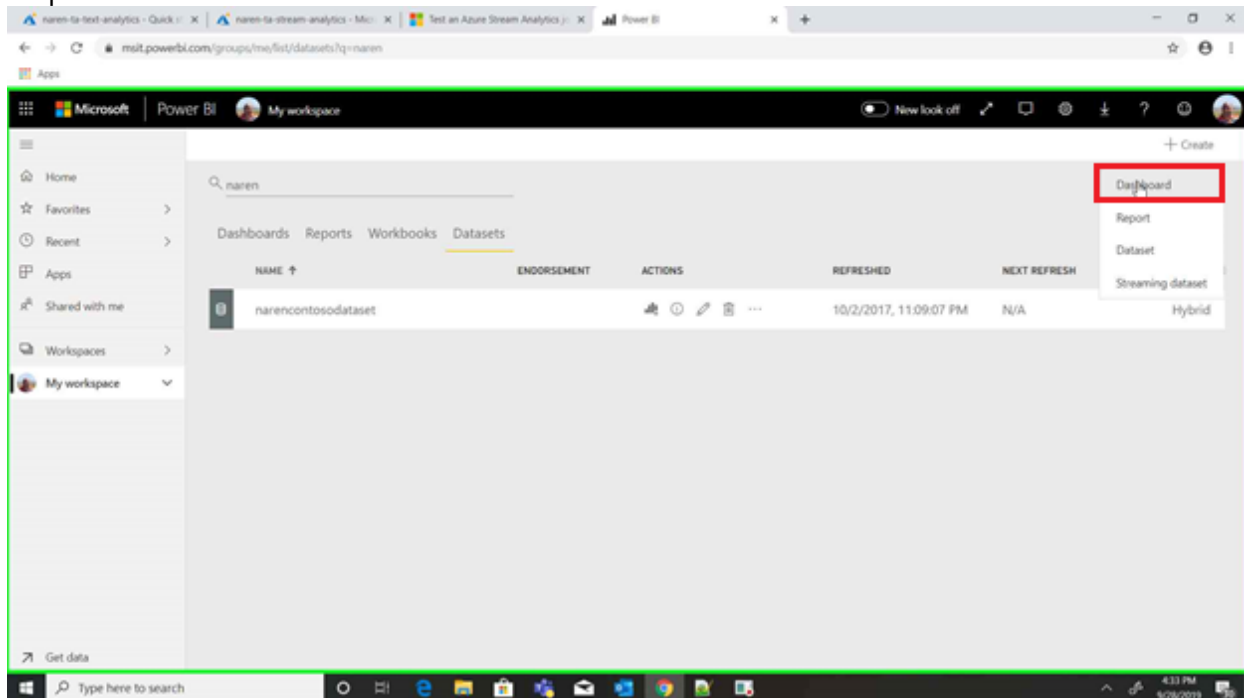# Create Report and Dashboard in Power BI for Tweet Analytics

To work on Tweet analytics demo we will use Power BI and create report and dashboard required for this demo.
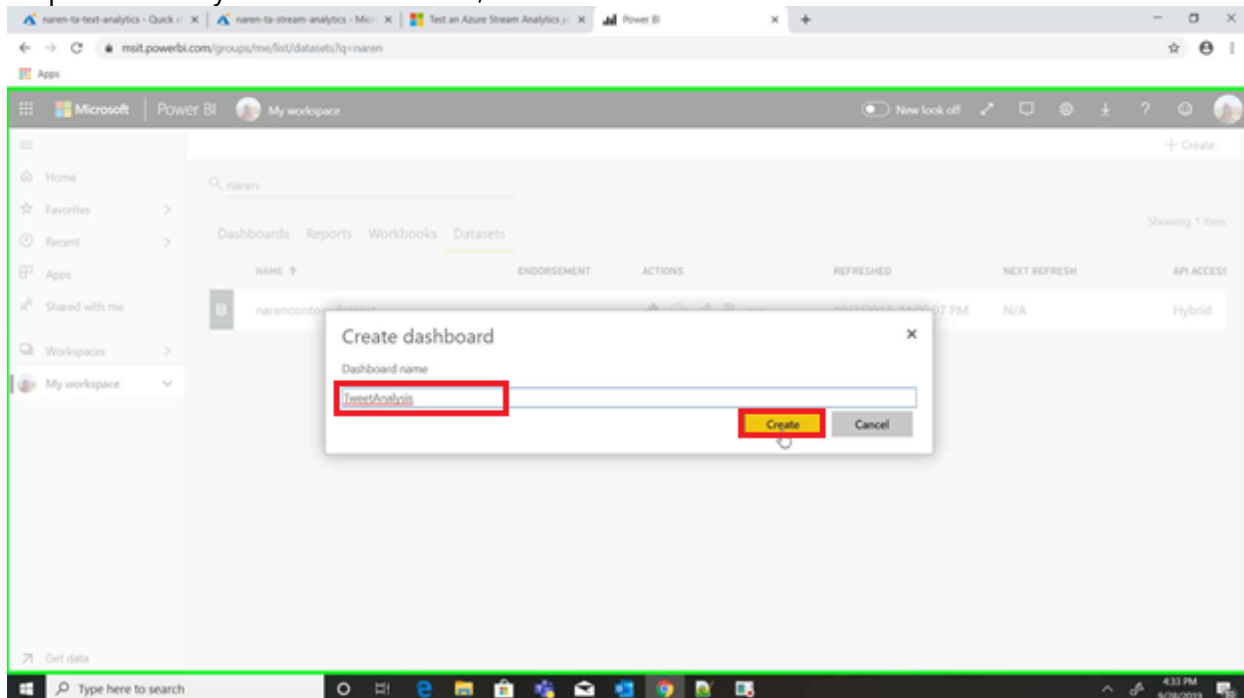
Step 1: Open Power BI in a browser to configure report and dashboard required to run the Tweet Analytics demo.
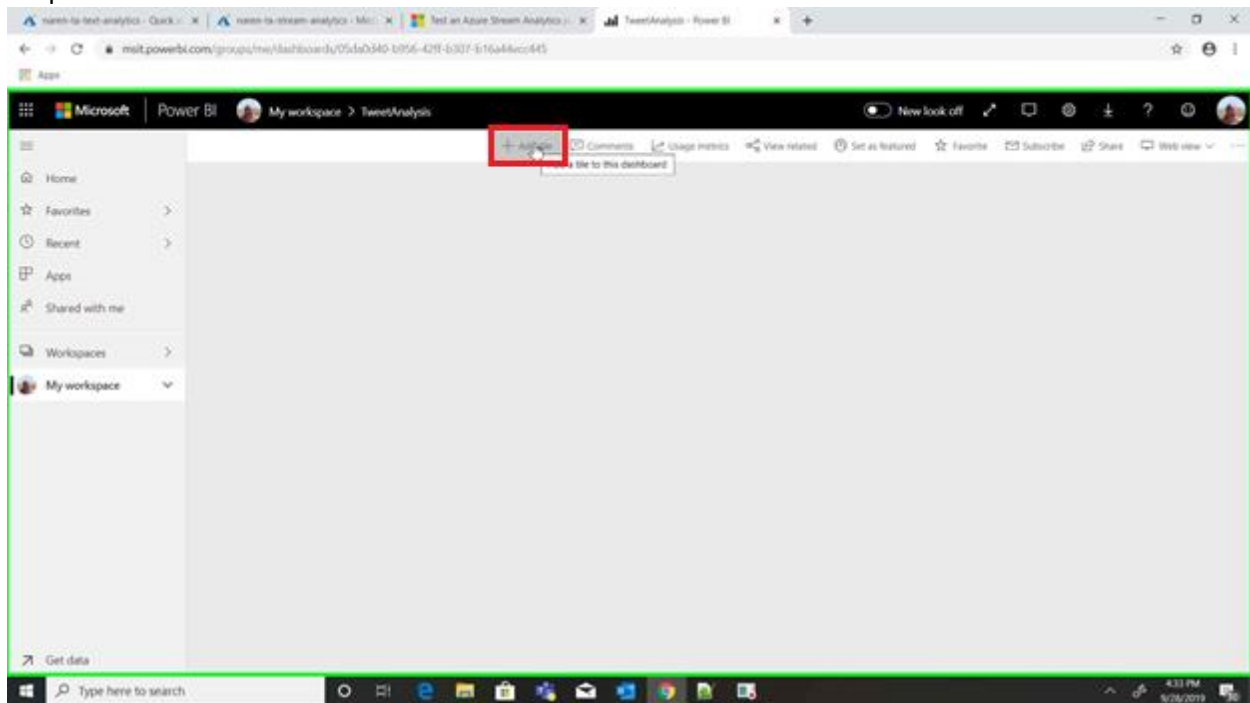
Step 2: Click "+ Create" and select Dashboard to create new Dashboard.
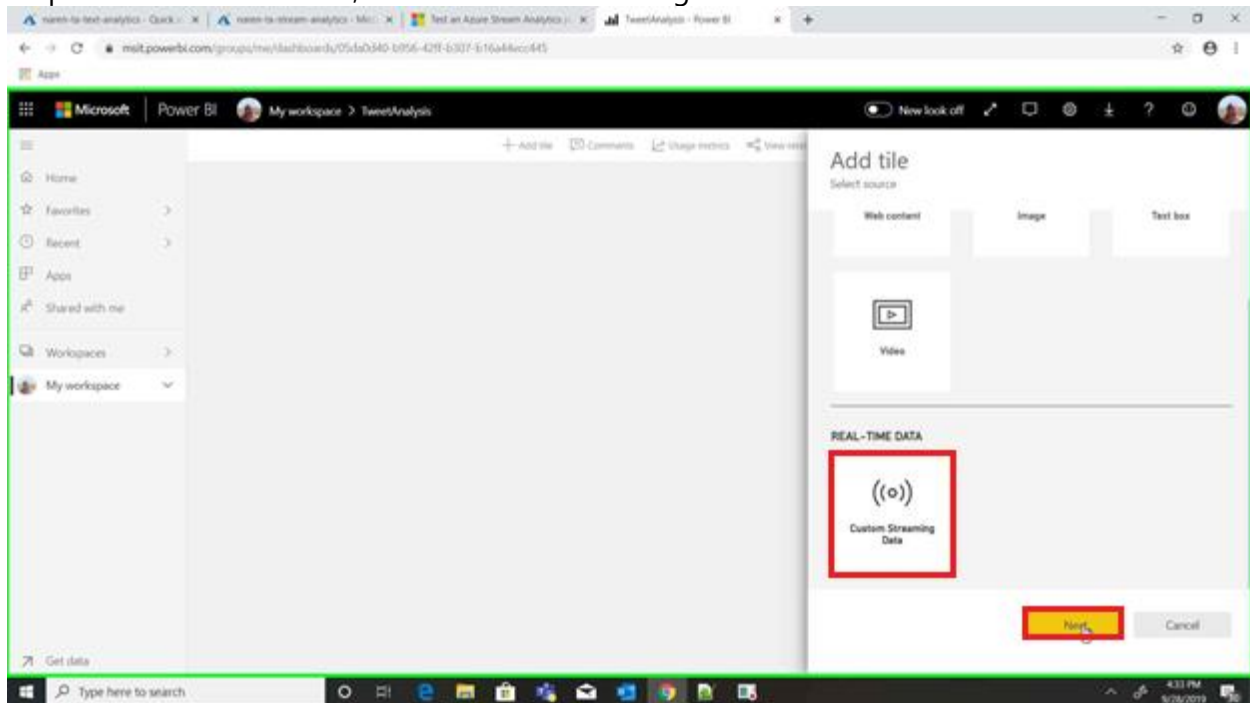

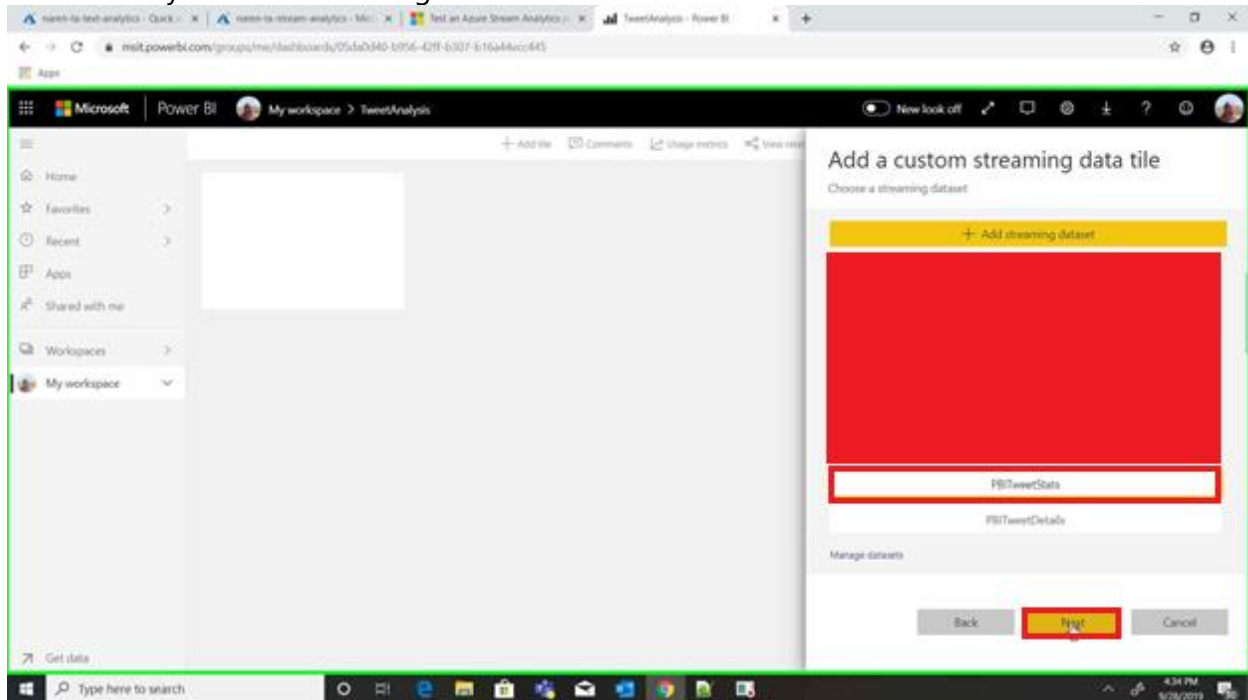Step 3: For newly created dashboard, enter the name and click Create

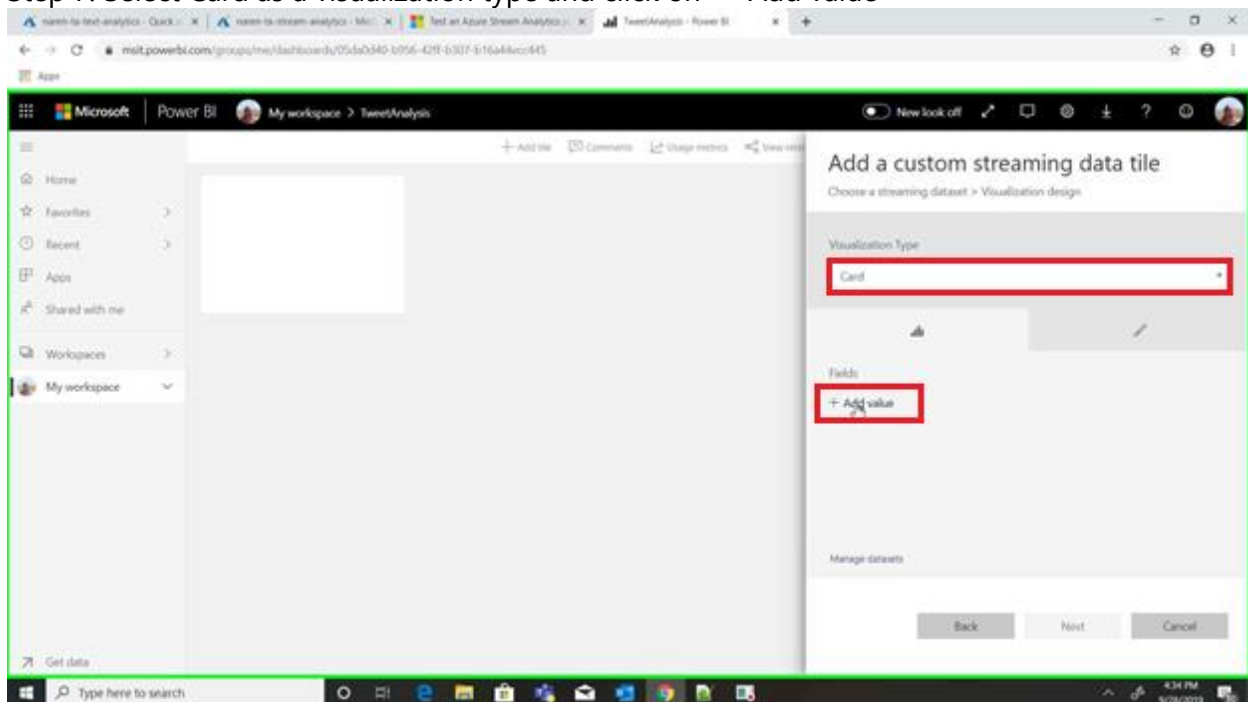Step 4: Click "+ Add tile" to add new tile on dashboard

Step 5: On "Add tile" blade, select "Custom Steaming Data" and click Next button
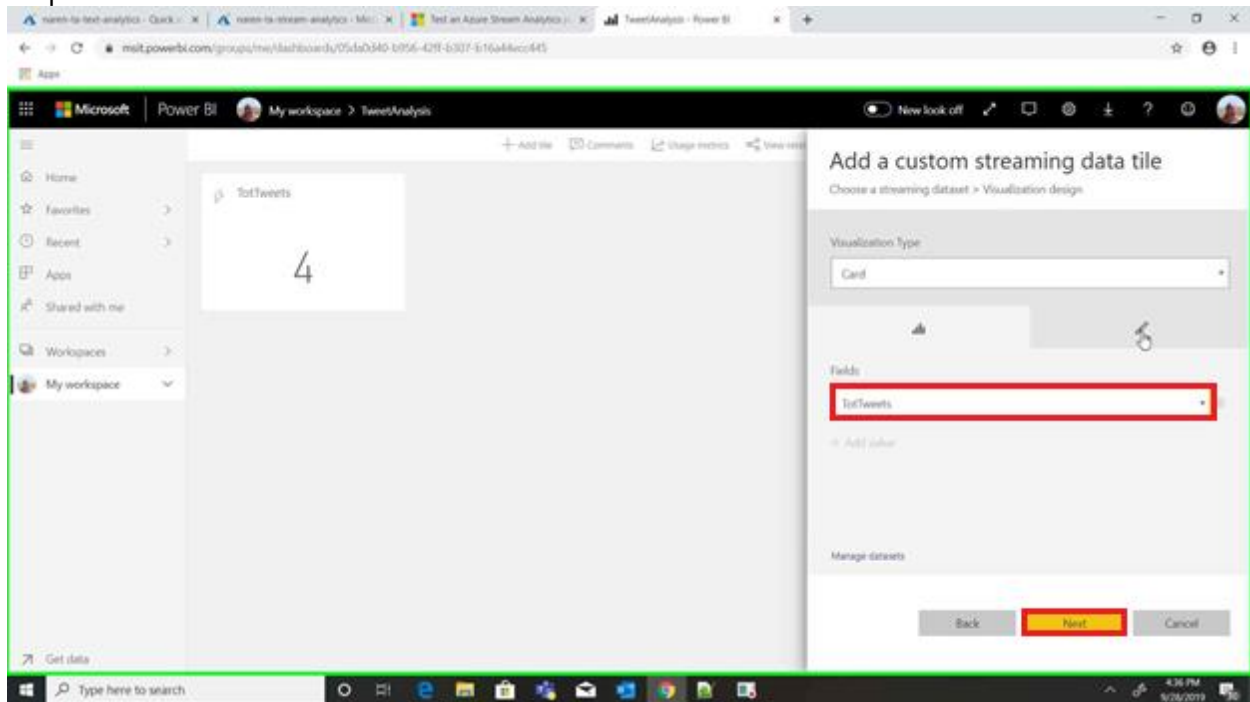
Step 6: On "Add a custom streaming data tile" blade select Tweet Stats dataset and click Next button. In my case I am selecting PBITweetStats dataset.

Step 7: Select Card as a visualization type and click on "+ Add value"
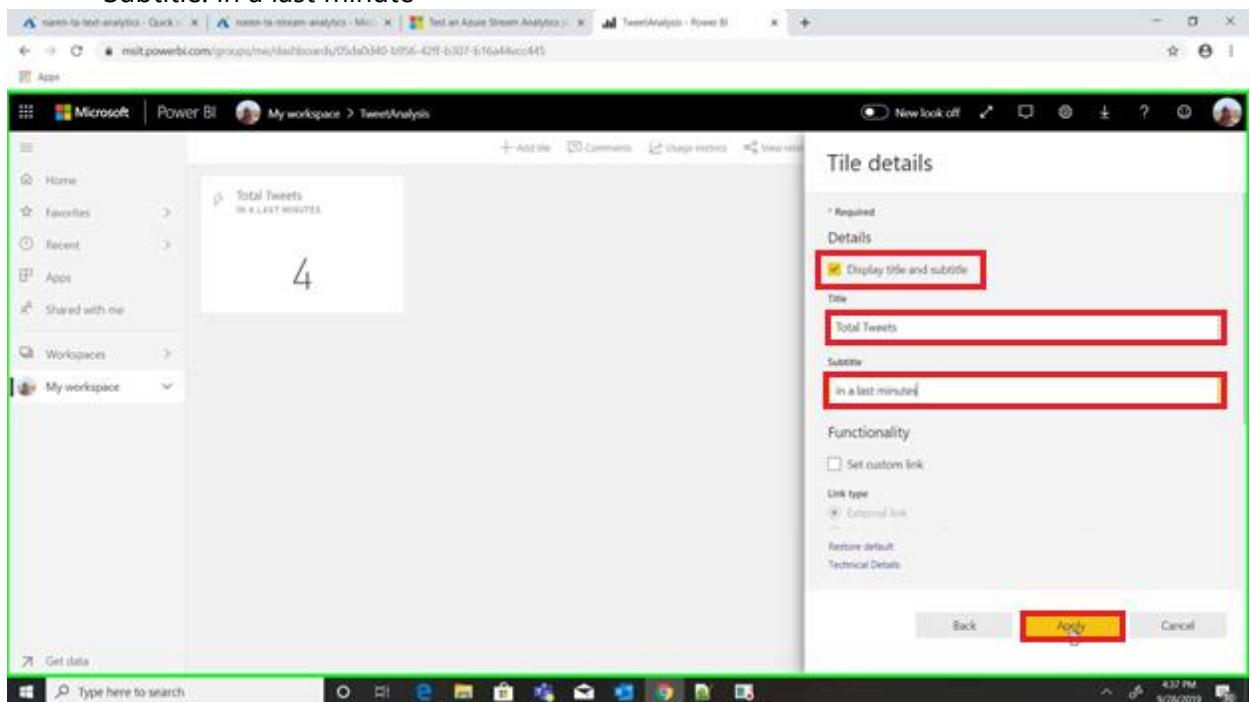
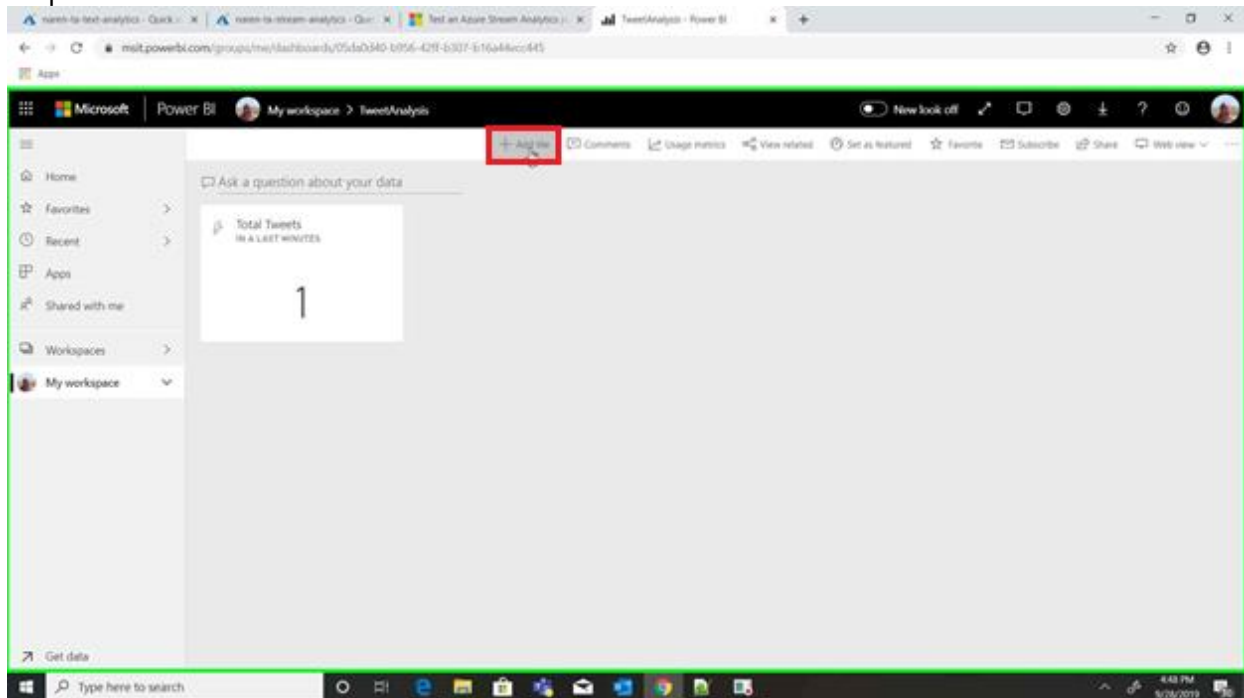Step 8: Select totTweets from the fields list and click Next Button

Step 9: On "Tile details" blade set the following information and click Apply Button
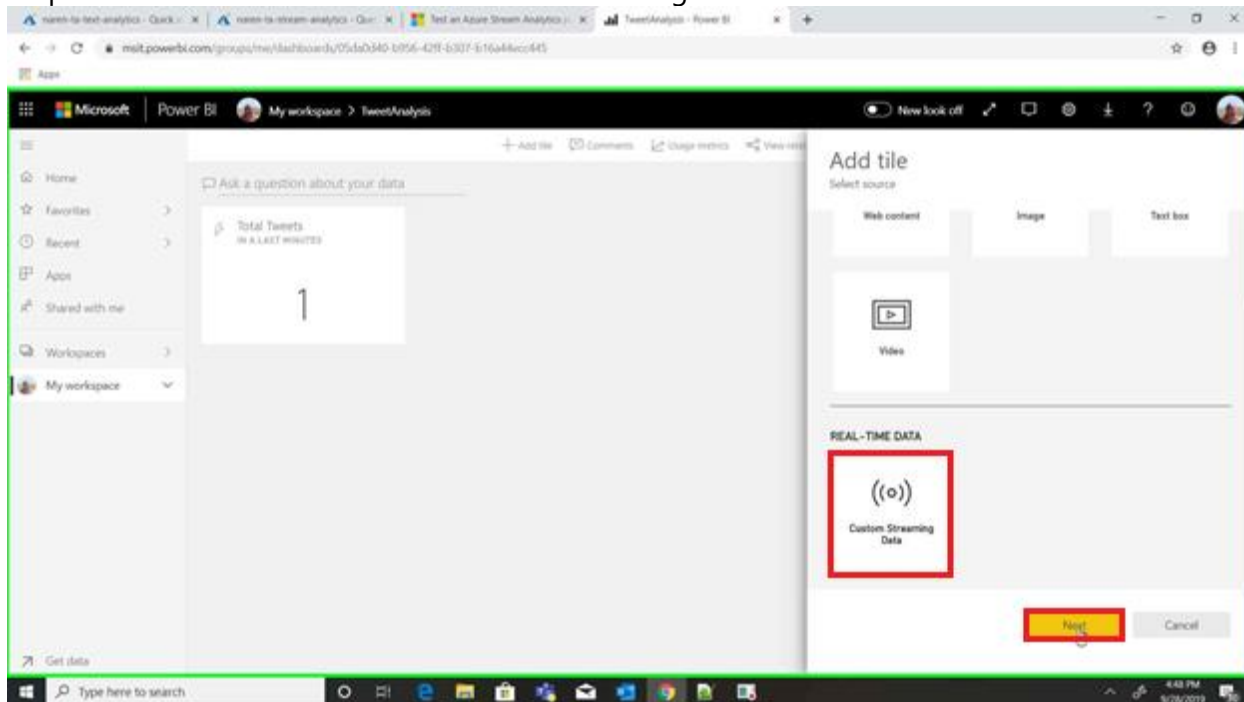- Checked "Display title and subtitle
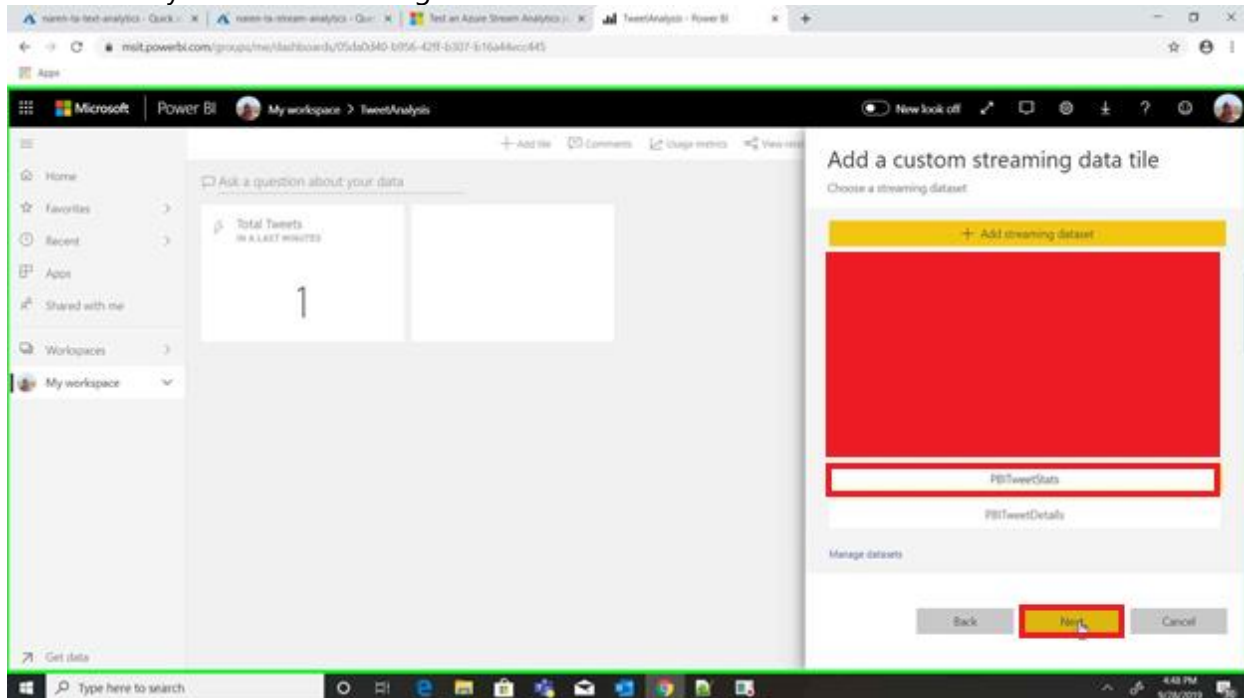- Title: Total Tweets
- Subtitle: in a last minute

Step 10: Click "+ Add tile" to add another tile on the dashboard

Step 11: On "Add tile" blade select Custom Steaming Data and click Next button

Step 12: On "Add a custom streaming data tile" blade select Tweet Stats dataset and click Next button. In my case I am selecting PBITweetStats dataset.
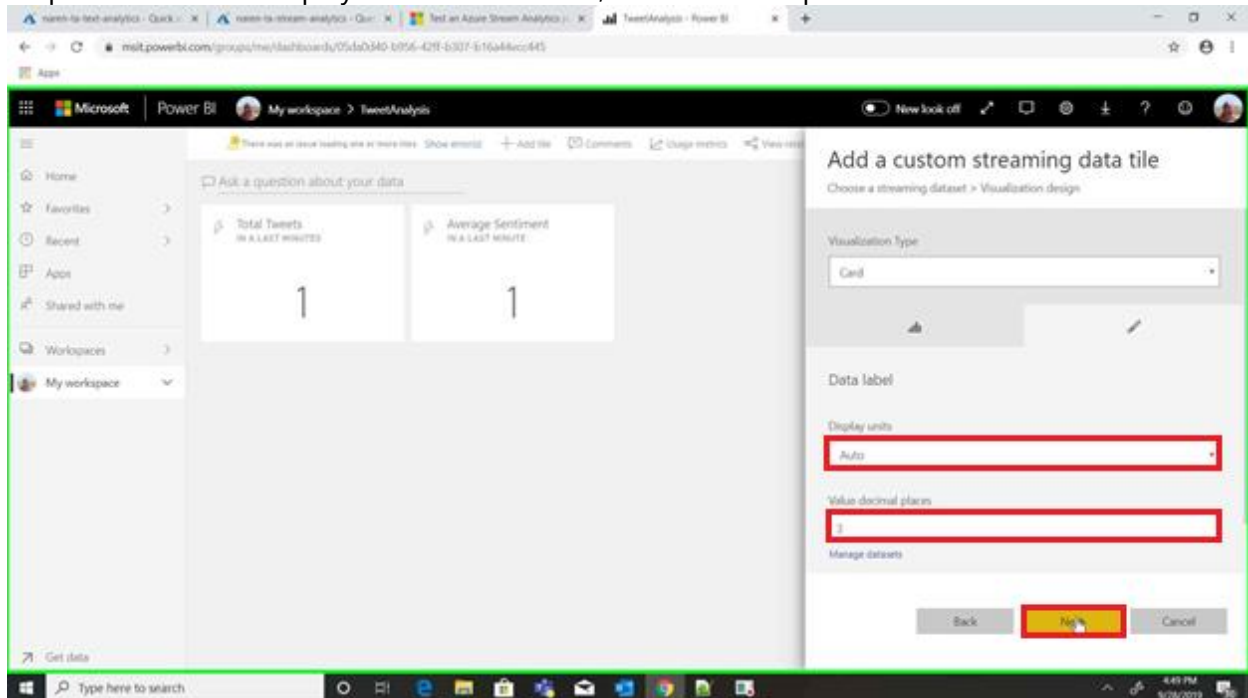

Step 13: Select Card as visualization type and click "+ Add value" to choose the filed for visualization type
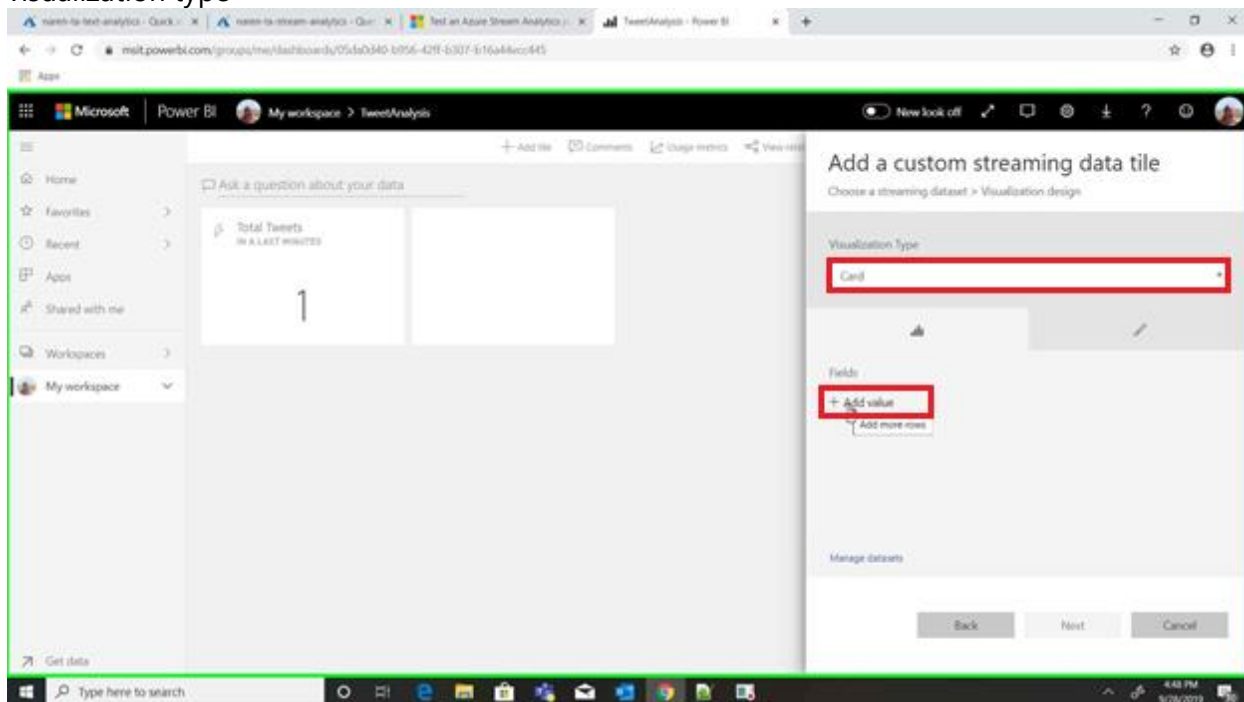
Step 14: From the field list select "AvgSentiments" filed and select format tab
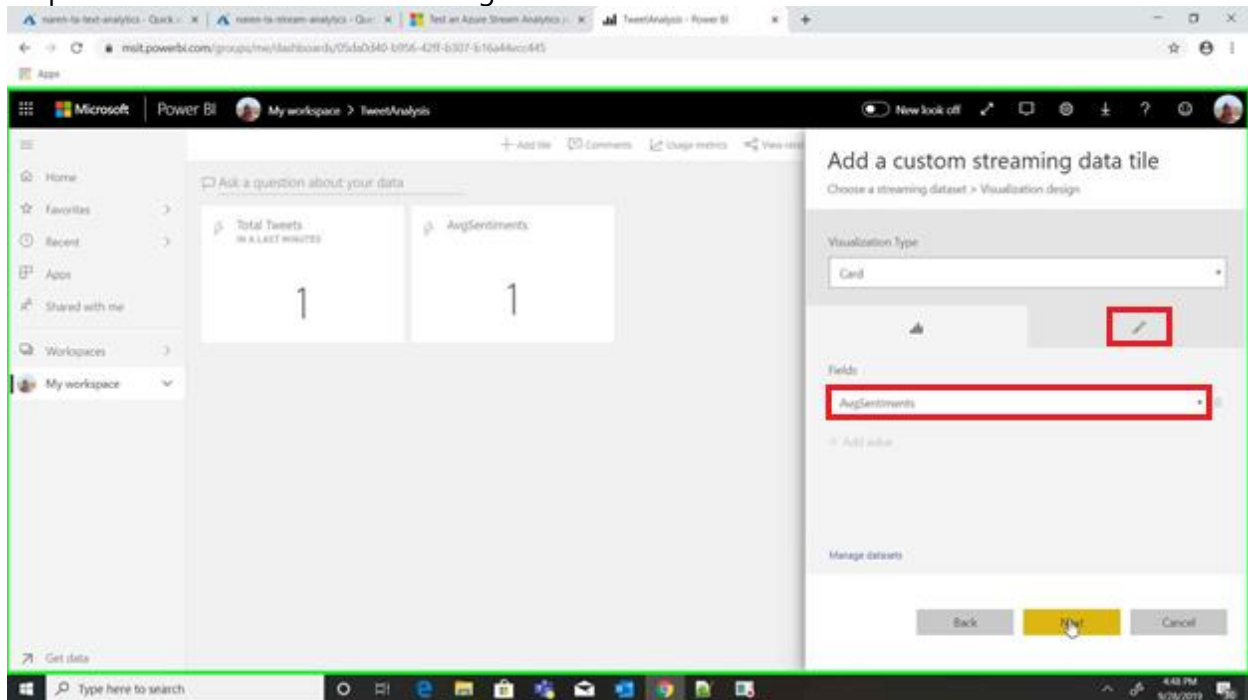
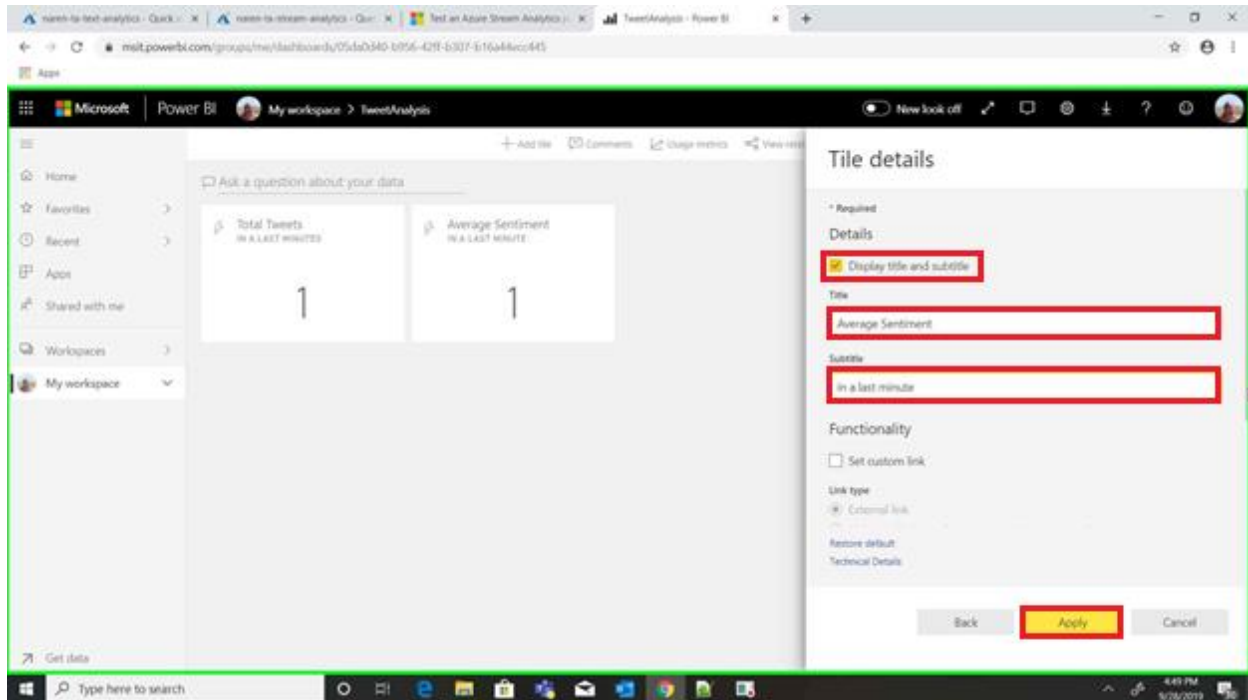Step 15: Make sure Display units set to "Auto", Value decimal places to 3 and click Next button

Step 16: On "Tile Details" blade set the following information and click Apply button
- Checked "Display title and subtitle
- Title: Average Sentiment
- Subtitle: in a last minute

Step 17: You will notice that Average Sentiment tile showing 3 decimal places, title and subtitle as we set in our previous steps.
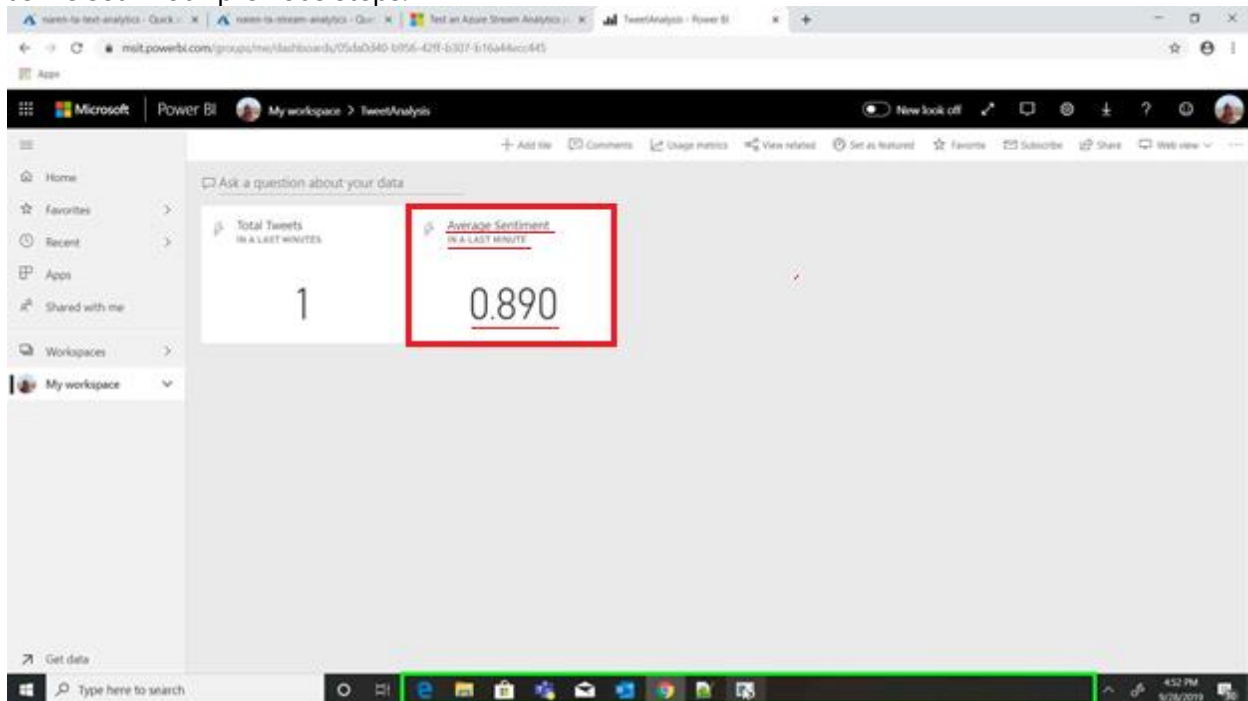
Step 18: Repeat Step No 10 to Step No 17 for adding 2 more tiles of Card Type for the following fields:

1. MaxSentiments – Set Title "Maximum Sentiment"
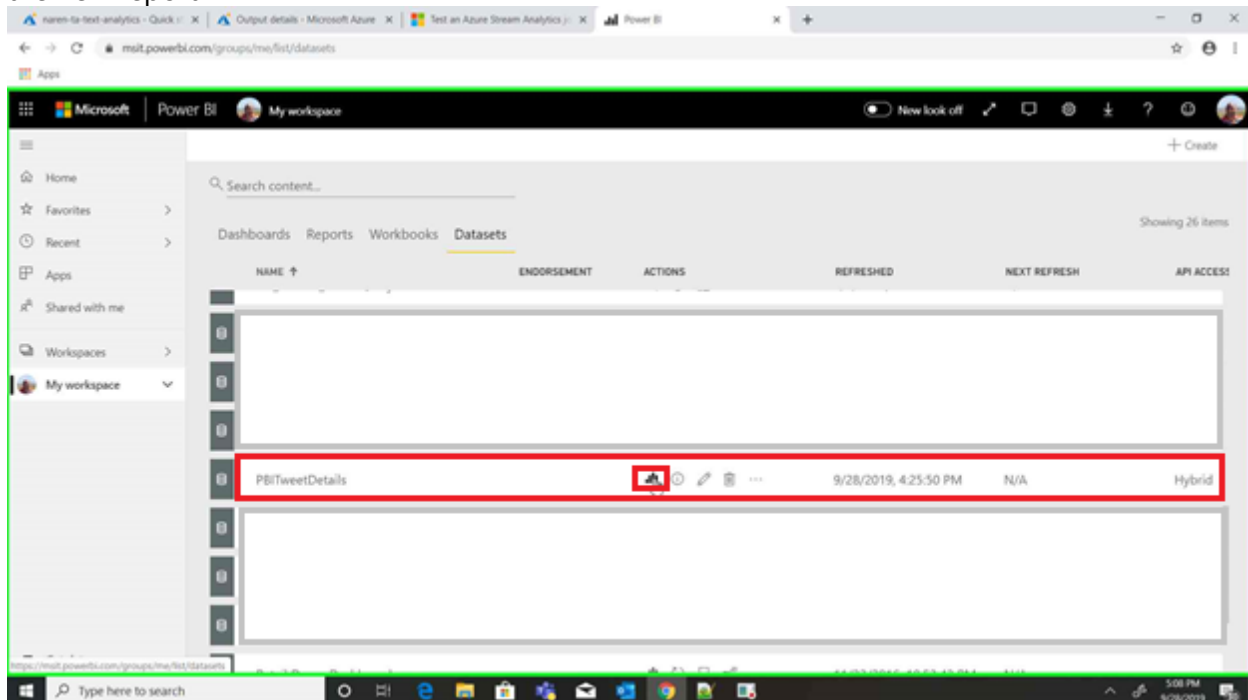2. MinSentiments – Set Title "Minimum Sentiment"

Step 19: After adding 2 more tiles to the dashboard, your dashboard will look as below screenshot. You can also create phone view for this dashboard. For this demo I have not created a phone view.
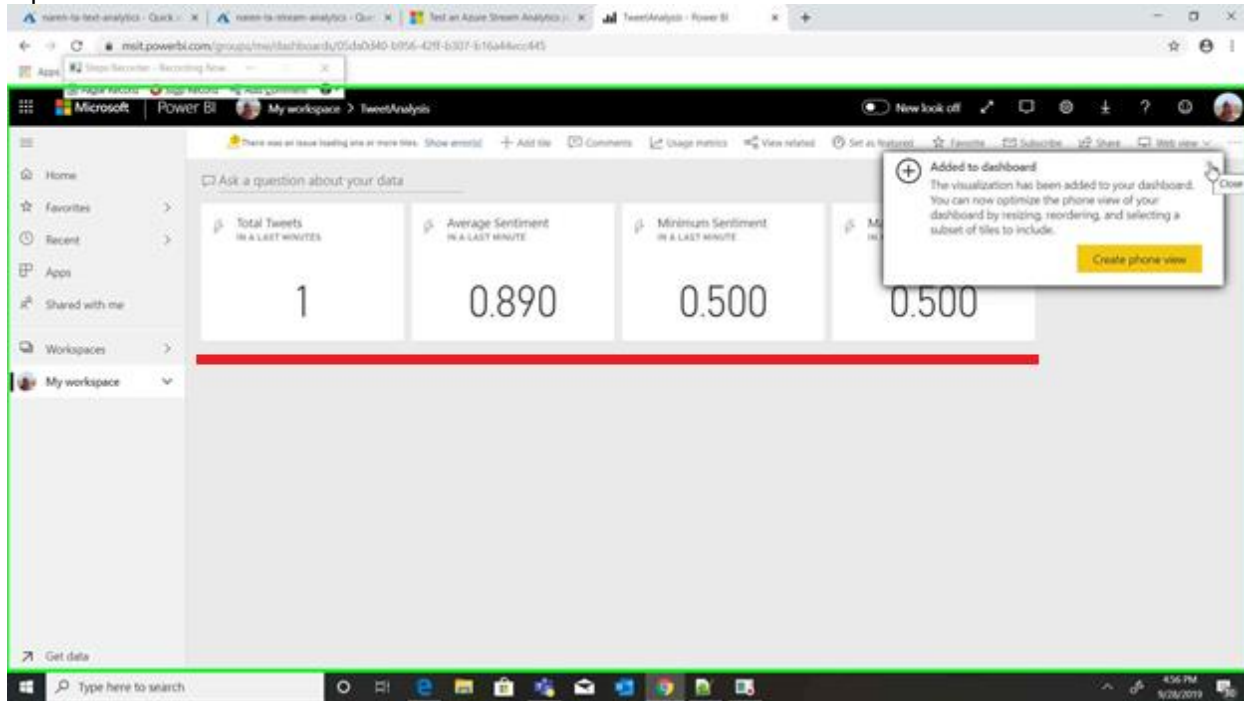
Step 20: From this step will learn how to create report in Power BI. To create report, we will first select a dataset. Click Datasets to select the dataset for the report.
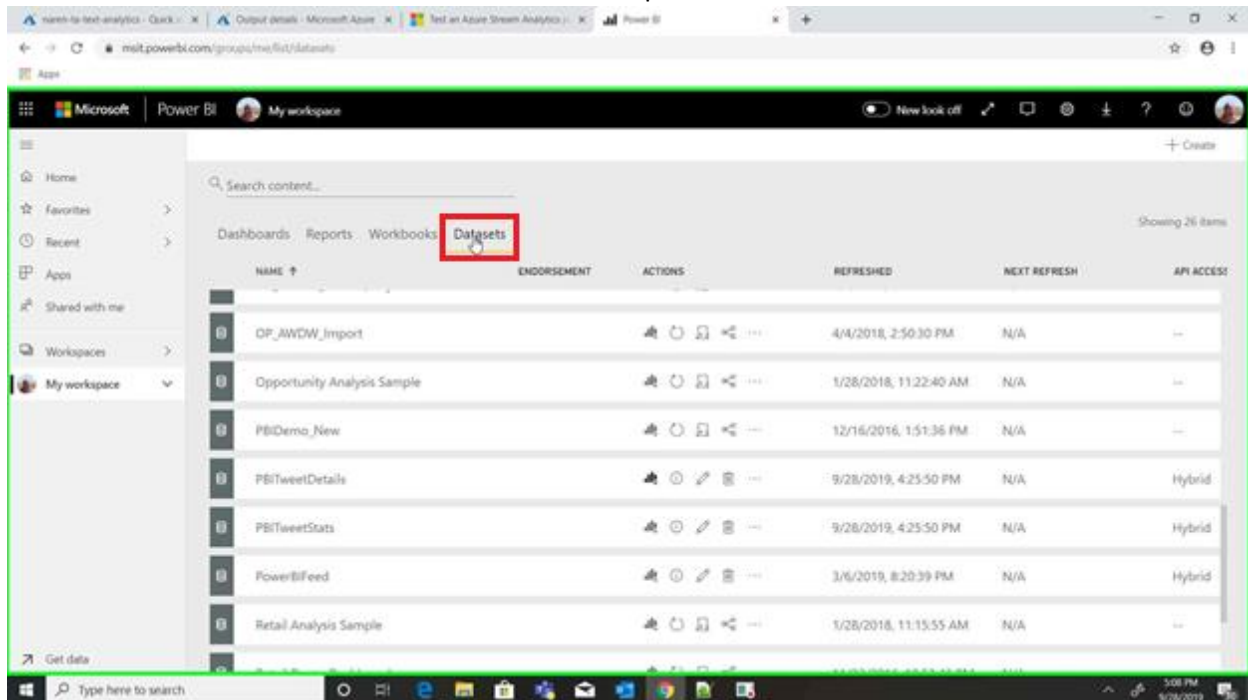

Step 21: To Create the Power BI Report we must choose Tweet Details dataset. In my case I have stored Tweet Details information in PBITweetDetails Dataset. Click Report icon to start creating the new report
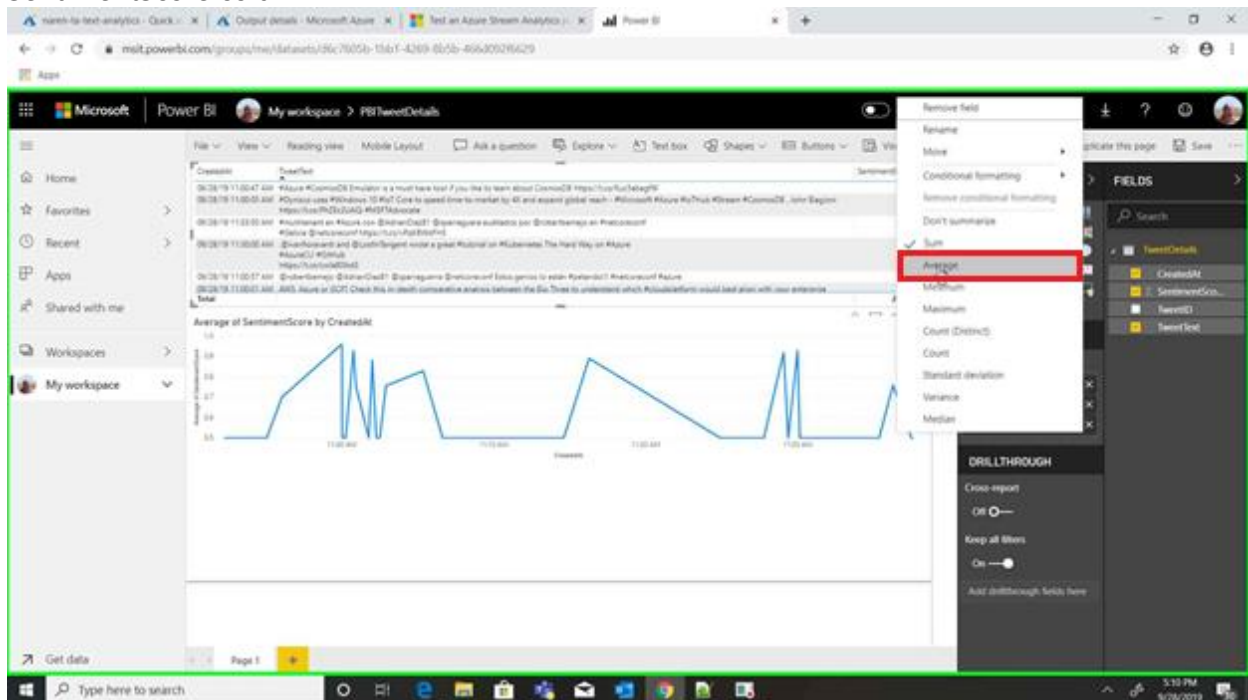
Step 22: On report canvas select Table visual as a first visual and add CreatedAt, SentimentScore & TweetText columns from TweetDetails table and resize the visual.

Step 23: On report canvas select Line Chart visual as a second visual and add CreatedAt & SentimentScore columns from TweetDetails table and resize the visual.

Step 24: Make sure that line chart is selected and change the aggregation from Sum to Average for SentimentScore column
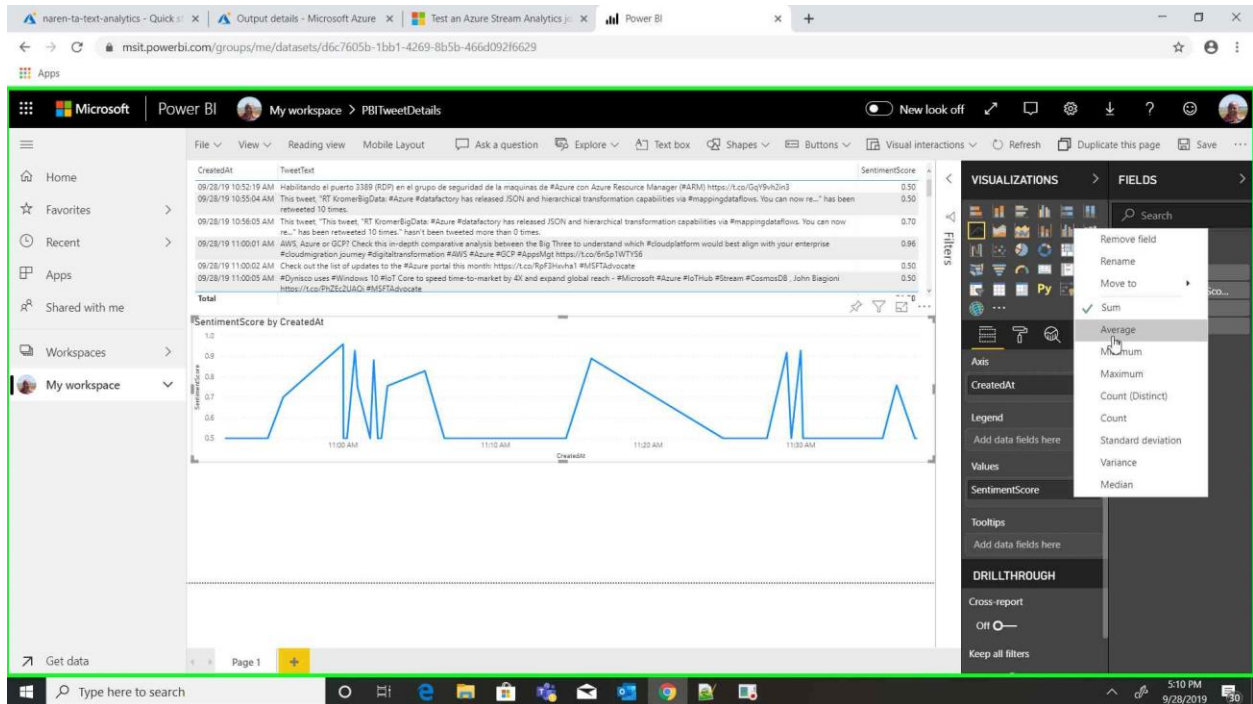

Step 25: Make sure that Table is selected and change the aggregation from Sum to Average for SentimentScore column

Step 26: On report canvas select Card visual as a third visual and add TweetID column from TweetDetails table and change the function from First to Count for TweetID column and resize the visual.
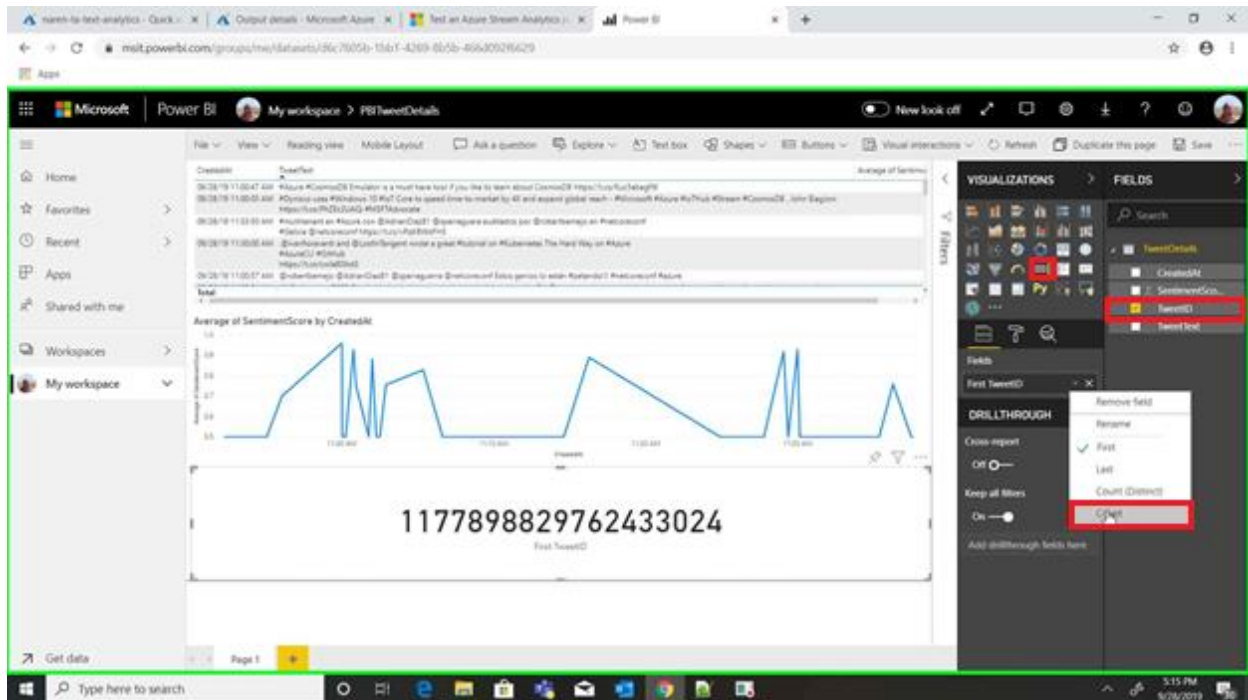

Step 27: On report canvas select Card visual as a fourth visual and add SentimentScore column from TweetDetails table and change the function from Sum to Average for SentimentScore column and resize the visual.
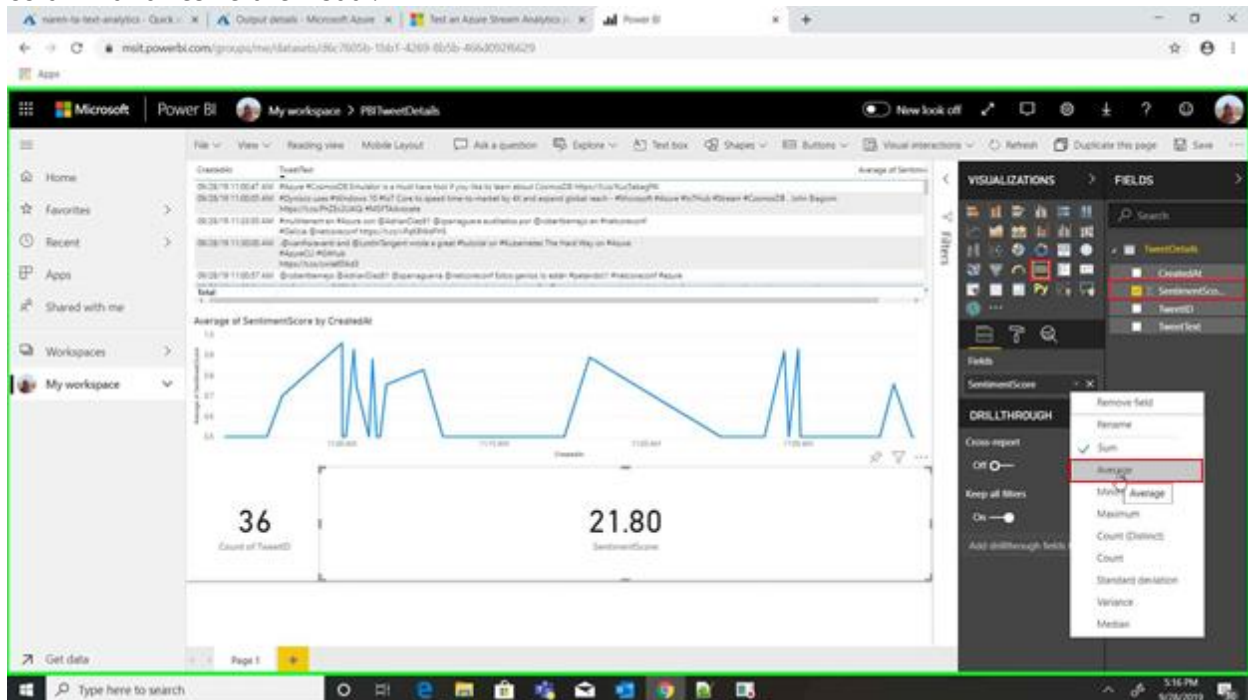
Step 28: Keep Border ON for all the visuals and click Save icon to save the report
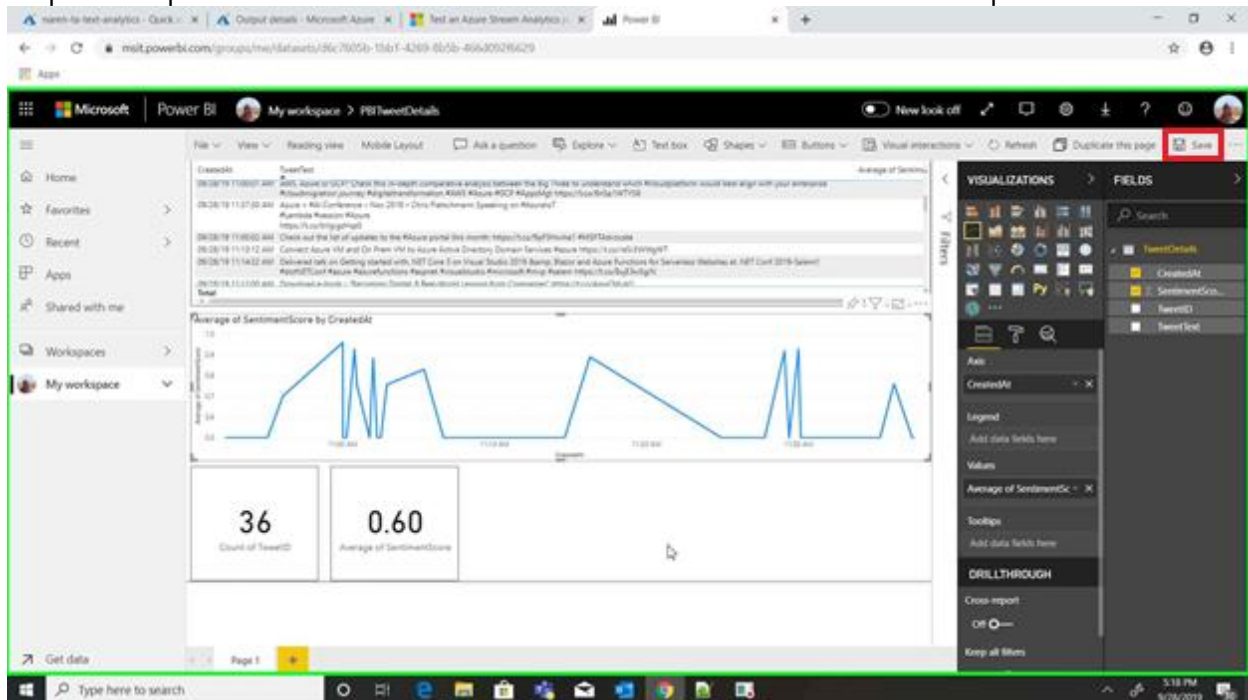
Step 29: In "Save your report" dialog box, enter the name of the report to save and press Save button
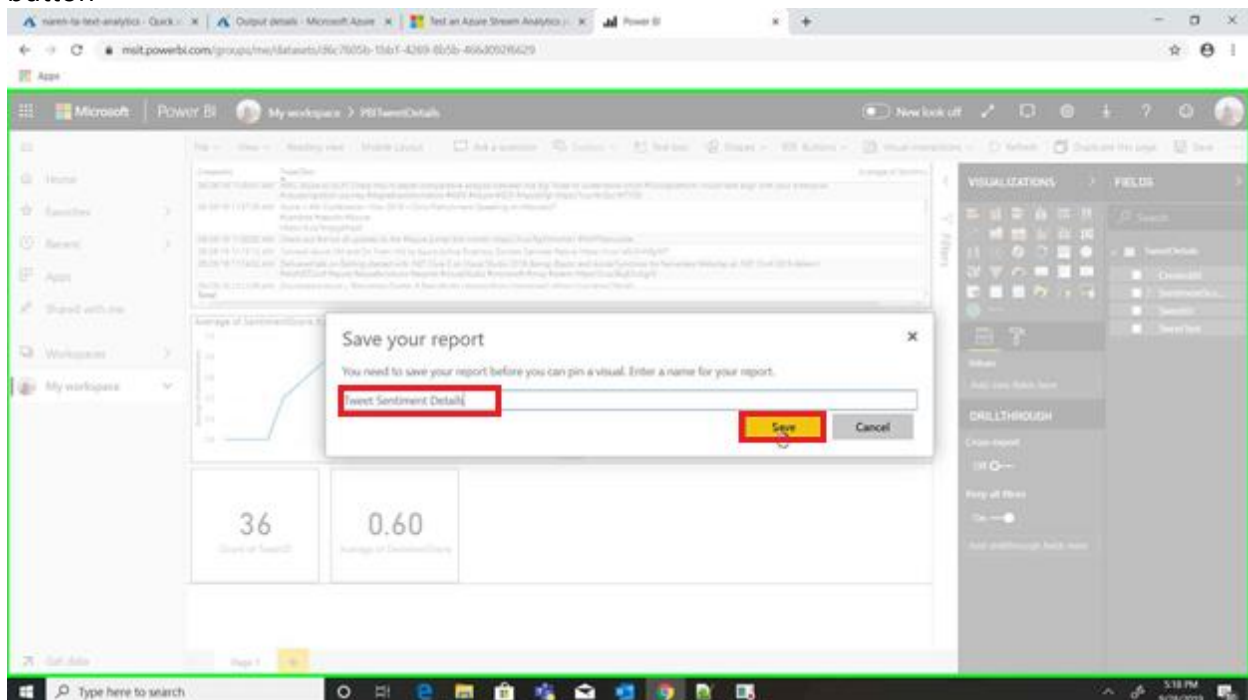
Step 30: Select Line Chart visual from the report and click "Pin to dashboard" icon to view this visual on the dashboard. It will open "Pin to dashboard" dialog window and make sure that you have selected "Existing Dashboard" option and select the dashboard which you have created for this demo.
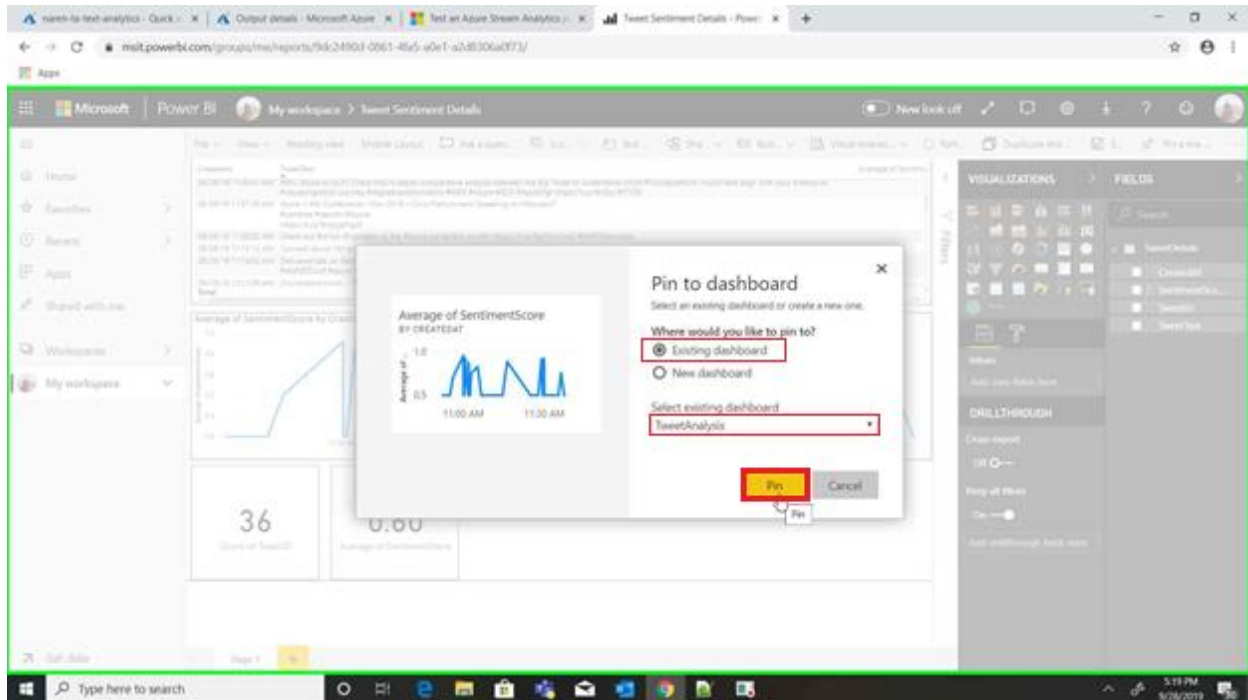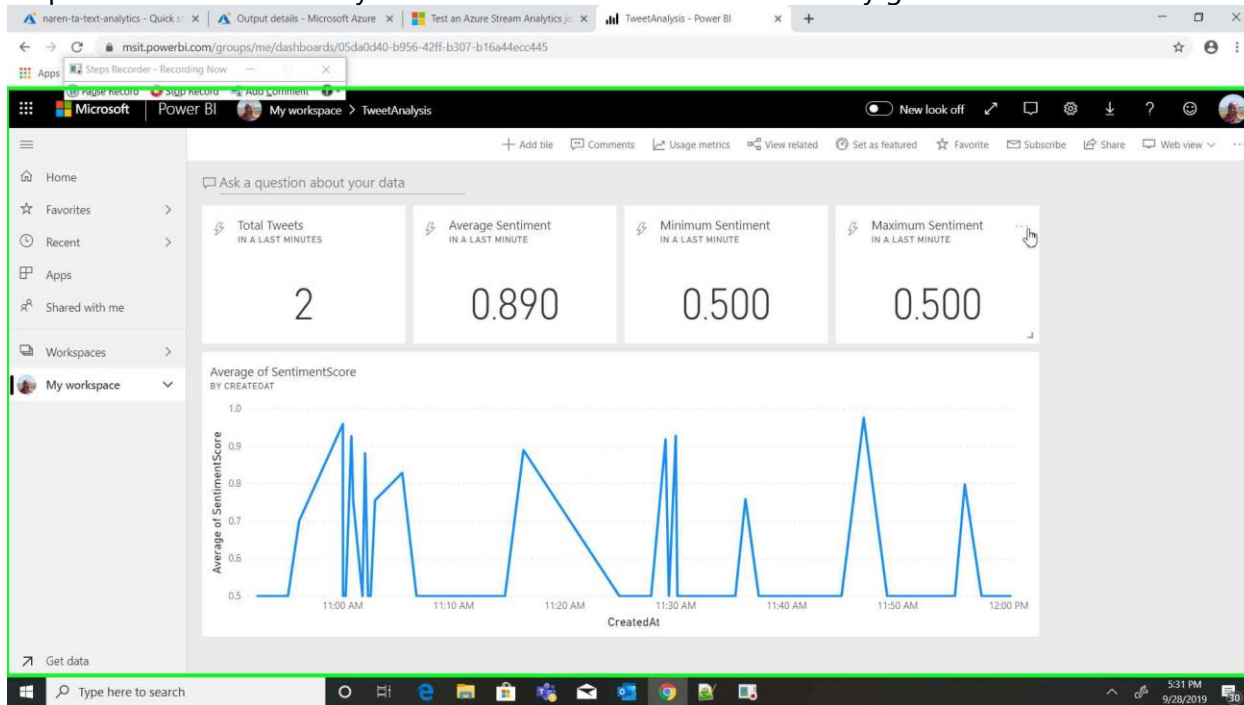

Step 31: Click "Go to dashboard" button to jump on Dashboard
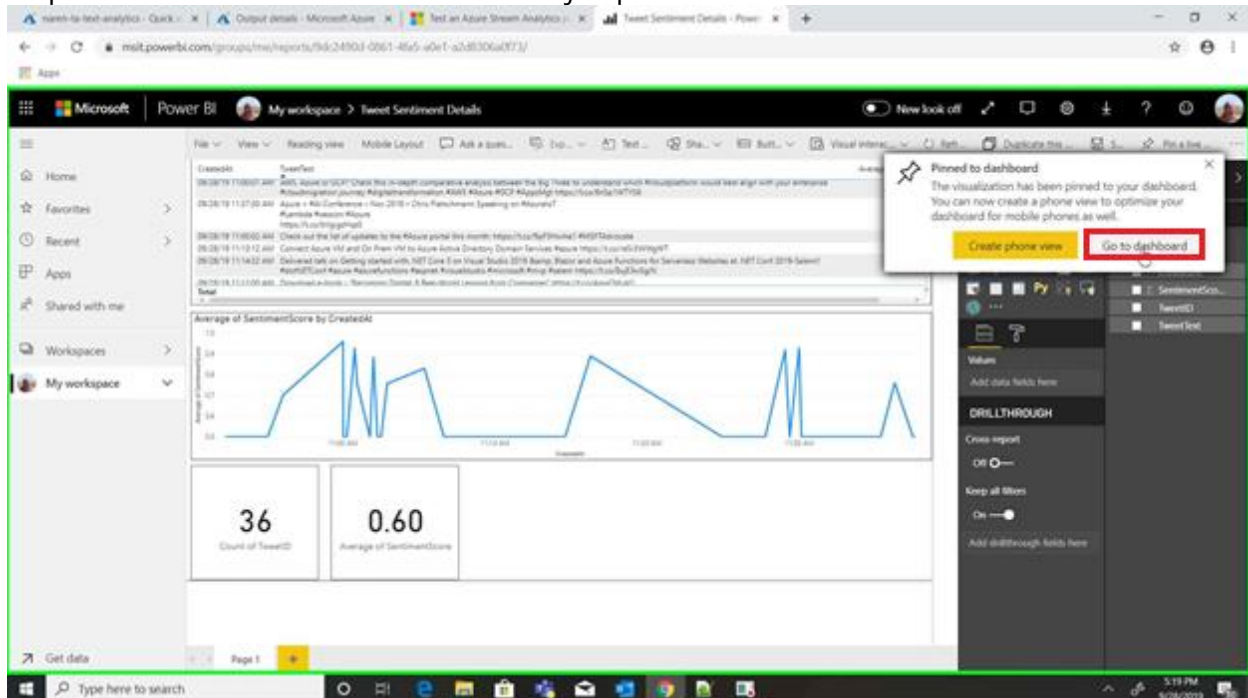
Step 32: Place the chart visual and resize it as shown in the below snapshot.
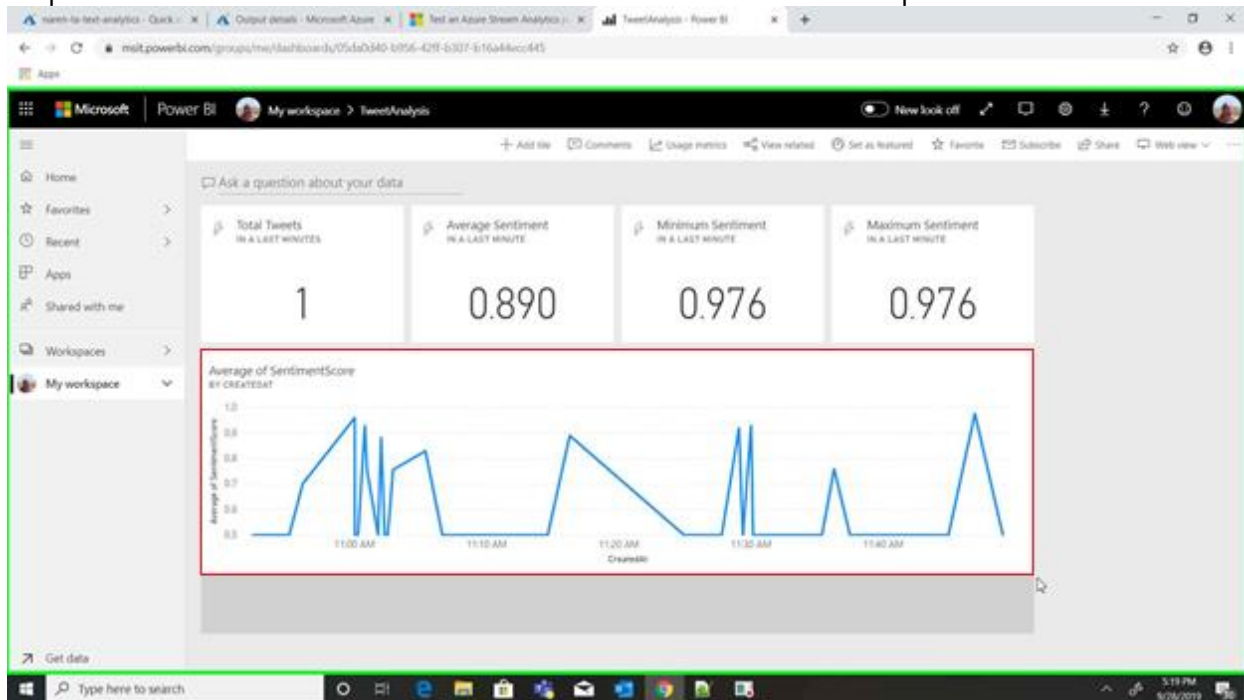
Step 33: After few minutes you will see the visuals are automatically get refresh.

Congratulations! Power BI Dashboard and Report got created successfully.