

# Assignment\_7

February 1, 2023

Task 7C: Tableau or PowerBI Dashboard

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The following link points to the DASHBOARD prepared to mimic the tasks done in Task 4P:

[https://public.tableau.com/app/profile/prateek.singh3997/viz/WeatherAnalysis\\_16751725170860/Dashboard1#](https://public.tableau.com/app/profile/prateek.singh3997/viz/WeatherAnalysis_16751725170860/Dashboard1#)

**Some assumptions for the Dashboard:** I have manually removed all the comments from the weather csv file.

Q: Converting all columns so that they use metric (International System of Units, SI) or derived units.

A: This has been done using calculated fields and both the original as well as corrected fields are kept in the Tableau data pane.

Q: Converting the time\_hour column to date-time.

A: In addition to converting the time\_hour to datetime, its also adjusted by 1 hr (similar to task 4P)

Q: Computing daily mean temperatures for the JFK,EWR,LGA airport.

A: The Dashboard has two plots, one for mean temperature across all airports (TOP) and one for mean temperature specific to each airport (Bottom).

Q: Finding and displaying the five hottest days.

A: The top graph is used to display five hottest day (The logic is preserved to mimic task 4P, where I calculated top 5 hottest days by taking mean across all airports per day).

**Additional Features:** The Dashboard has a filter to select the origin. This can be used to select one, two or all three airport temperatures.

The Dashboard also has a slider to select Top 5 hottest days, by default all 5 days are marked (as a \*) on the TOP graph. For convenience, I have added a third filter based on Months, by default all months are displayed, but one can only select the months of particular interest, e.g. when viewing top 5 hottest day, just select that particular month to zoom in automatically.