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Experiment 9: Building a Complete Dashboard

Aim: Provide hands-on experience on building complete dashboard.

Activity: Building a Complete Dashboard

In this activity, you are an analyst working for the European Union looking to build a dashboard showcasing the 2014 versus 2015 growth in passengers across all European airports and also enable stakeholders to interact with the data. You will create multiple scorecards and branding elements, as well as add a Top N European Airports parameters view to your dashboard. The final output should look as follows:



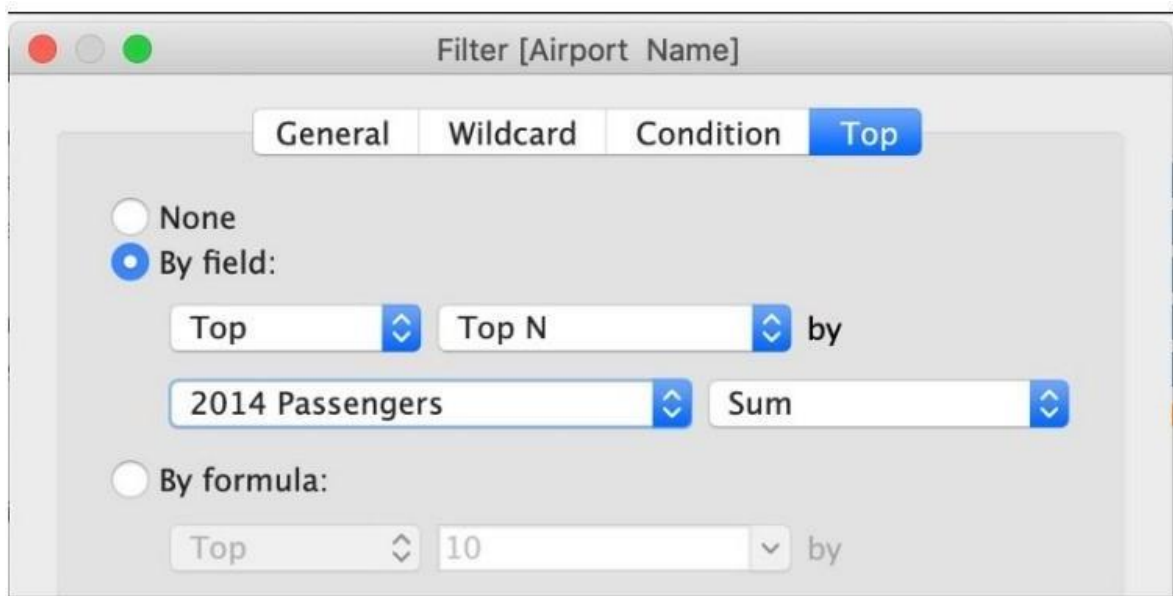
The following steps will help you to complete this activity:

1. Open a new Tableau instance and load the European Airports 2015 data in the view.

2. Create three scorecard/KPI metrics: Total 2014 Passengers, Total 2015 Passengers, and Passengers Growth/Decline.
3. For Total 2014 Passengers, put 2014 Passengers on the Text marks card and format the text as well as the title, as shown in the output. Do the same for Total 2015 Passengers.
4. For the Passengers Growth/Decline scorecard, create a new calculated field by using the following formula:



5. Using the Passenger Growth/Decline field, create a similar scorecard to the one you created for 2014 Passengers.
6. Create a new worksheet and rename the worksheet Top N Airports by 2014.
7. Create a Top N Parameter, name your parameter Top N, select Integer as the data type, 10 for the current value, and then click OK.
8. Add Airport Name to the rows, and 2014 Passengers and 2015 Passengers to the Columns shelf, convert the two axes into a dual axis, and then synchronize the axis.
9. Under the Marks card, change one of the axes to the Circle mark type to create a Bullet Chart view that you want as your output.
10. To add the Top N parameter to the view, drag the name of the airport to Filters. Click on Top and filter the field by Fields. Then, select the parameter from the dropdown and add 2014 Passengers as the field before clicking OK.



11. Right-click on the Top N parameter in the data pane and click Show Parameter.
12. Add a couple of descriptive elements to the dual axis, drag Passenger Growth/Decline and Country to the Tooltip, and confirm whether 2014 Passengers (2015 Passengers) are already part of the tooltip. If not, drag them to the Tooltip marks card as well.
13. Create a new dashboard and drag a Vertical tiled object. Start at the top with branding and work your way through the bottom.
14. Header: Drag a Horizontal tiled object, drag Text, and then call your dashboard European Airports Growth.
15. Next, download a hand airplane or an airline logo online and drag that using the Image tiled object to the right of the title of the dashboard.
16. Add another Vertical tiled object below the header and drag all three scorecards.
17. Next, drag another Vertical tiled object below the scorecards and put the Top N Airports by 2014 worksheet in that section.
18. Align/realign the legends and parameters as per your requirements.

SOLUTION: -

