# Activity Exemplar: Create your charts

Here is a completed exemplar along with an explanation of how the exemplar fulfills the expectations for the activity. Completed Exemplar

Link to exemplar: Minnesota Traffic Volume Charts 🖸

To review the exemplar for this course item, click the following link.

Assessment of Exemplar

progress through the course. Note: The exemplar represents one possible way to complete the activity. Yours will likely differ in certain ways. What's important is that you apply your BI design knowledge and that your charts answer the business questions from the

scenario in this activity. If you had trouble creating charts on your own, you can use this exemplar as a guide in your

Compare the exemplar to your completed activity. Review your work using each of the criteria in the exemplar. What

did you do well? Where can you improve? Use your answers to these questions to guide you as you continue to

future projects. Traffic volumes by month per year This line chart compares traffic volumes for each month from one year to the next. This chart answers the question:

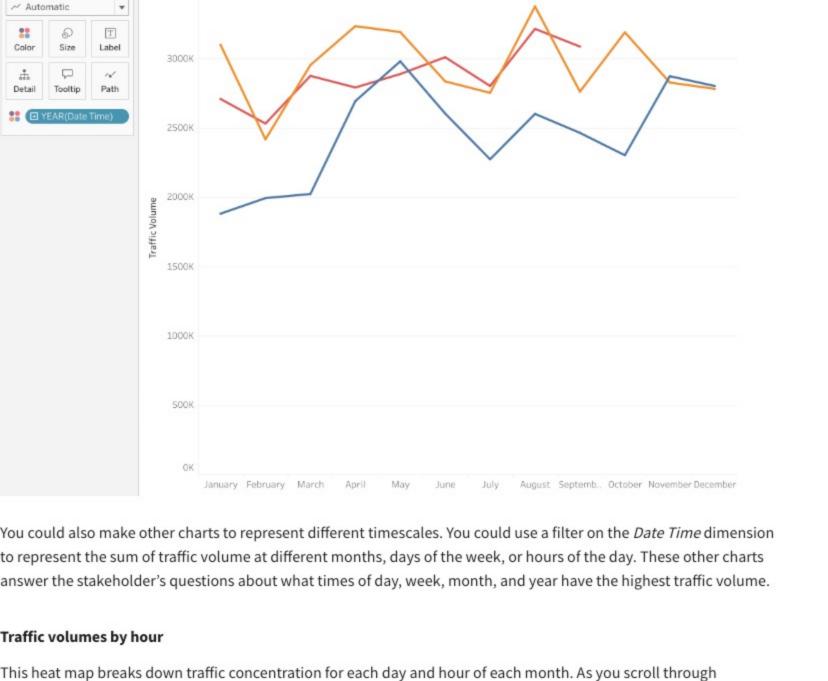
Which month typically has the highest traffic volume? It uses the Date Time dimension with a filter to show the Month

## timescale. It also uses the sum of traffic volume from each period of time to make a singular total value of traffic volume at each month interval. Each point on the chart represents the total number of cars on the road during an

→ Filters

entire month. This exemplar has three lines on a chart to represent the years 2016, 2017, and 2018. The 2018 line ends in September, simulating how near-real-time data might make unfinished lines in a BI visualization. Pages

Traffic Volumes: Month per Year Date Time



month and rows represent the time of day. Higher concentrations of traffic are represented by the color of each square in the heat map, with orange demonstrating a higher volume while the darker blue squares indicate less traffic.

visualization, the chart automatically updates to display each month's data. This chart lets you compare each day and hour of traffic to the next, detailing traffic volume down to the hour. Columns in this heat map represent the day of the



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2

3 4

5

6

⊞ Rows

Weather .. =

Clouds Clear

Rain

Mist

Snow Drizzle

Haze

Fog

Thunderstorm

United States

iii Columns

January

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Marks

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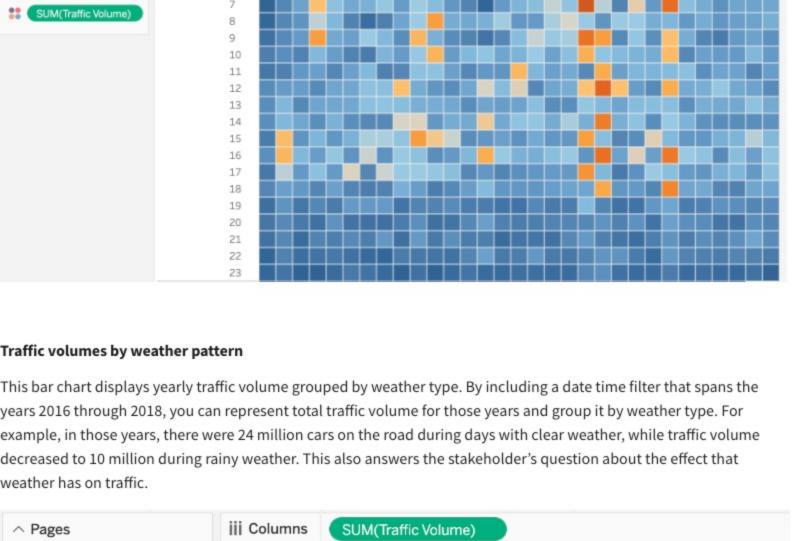
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DAY(Date Time)



Weather Main

Traffic Volumes: Weather Type

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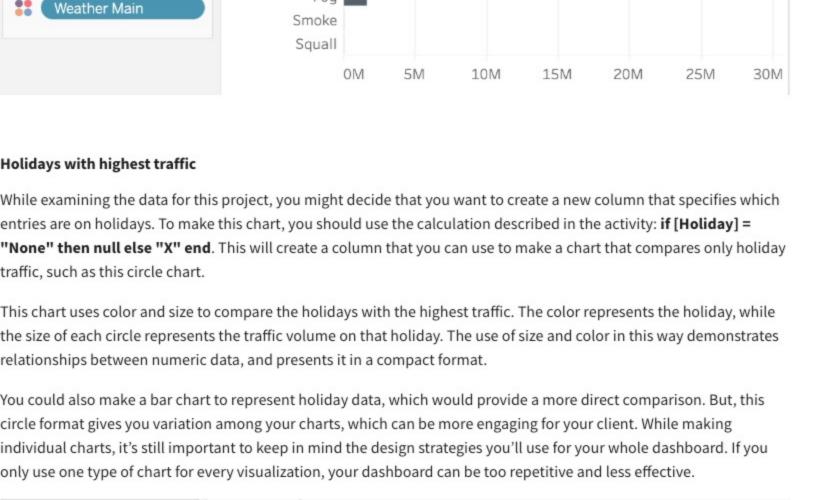
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Date Time

IS\_HOLIDAY: X

Date Time



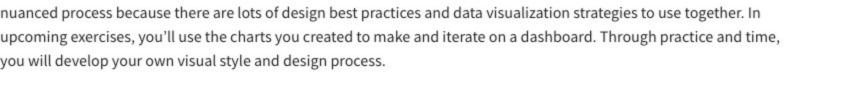
Highest Traffic on National Holidays in the

\*\* 0 Т Martin Luther Independence Color Size Label King Jr Day Day 4 Detail Tooltip Christmas Day

## Key takeaways

Mark as completed

SUM(Traffic Volume) **New Years Day** Labor Day Holiday Holiday State Fair Memorial Day



In this activity, you examined your stakeholder's needs and made charts to address them. Visualizing BI data is a