COS30045

LAB 4.1 Design Studio

Overview

In this lab you will be given a sample data set and asked to identify the different data and attribute types. You will also think about some questions about this data set that might be answered by a visualisation.

ardd_fatalities_Jan2020_0.xlsx (download from Canvas)

Download and review this data set before attempting this exercise.

1 Interpreting the data set

Complete the LAB 4.1 Quiz.

2 Visualisation Design

Think of three questions you would like to answer with that require a data visualistion.

For each data question you will need to consider the following:

Which data attributes (columns) do you need to answer this question?

Do you need to transform any of the data?

Does the data type change when you transform the data? If so how.

Make a sketch of how you think your visualisation might look and add to this document.

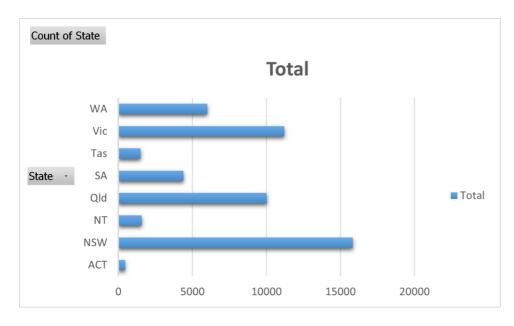
Your Question 1

Row Labels 🔻	Count of State
ACT	462
NSW	15832
NT	1586
Qld	10021
SA	4391
Tas	1494
Vic	11205
WA	6010
Grand Total	51001

I used "State" to show the total count for each state.

No, I don't need to transform any of the data since I only differentiate the different state which is ACT, NSW,NT, Qld, SA, Tas, Vic and WA.

No, the data type won't change because I don't transform the data.

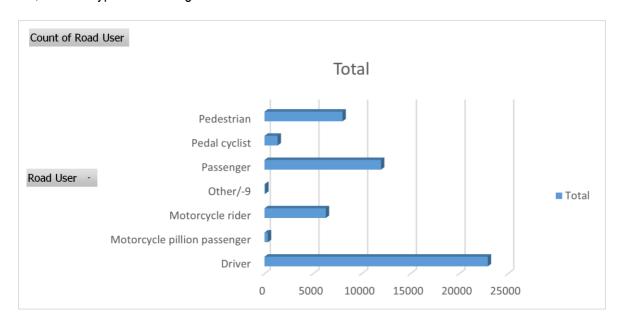


Your Question 2

Row Labels	*	Count of Road User
Driver		22931
Motorcycle pillion passenge	er	351
Motorcycle rider		6300
Other/-9		81
Passenger		11969
Pedal cyclist		1355
Pedestrian		8014
Grand Total		51001

I used "Road User" to show the total count for each type of road user.

No, I don't need to transform any of the data since I only differentiate the different road user which is driver, motorcycle pillion passenger, motorcycle rider, passenger, pedal cyclist, pedestrian, and other. No, the data type won't change because I don't transform the data.

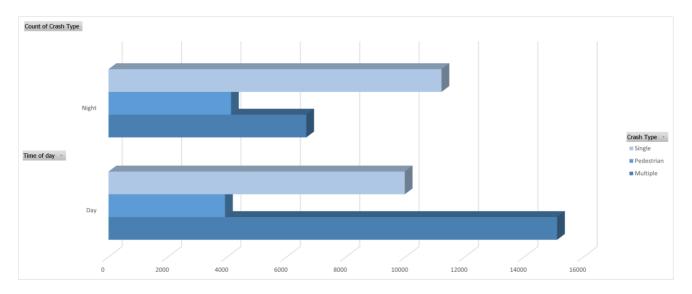


Your Question 3

Count of Crash Type Column Labels 🔻							
Row Labels	Multiple	Pedestrian	Single	Grand Total			
Day	1510	5 3923	9976	29004			
Night	665	9 4124	11214	21997			
Grand Total	2176	4 8047	21190	51001			

I used "Crash Type" and "Time of Day" to show the total count for each crash type during day or night. No, I don't need to transform any of the data since I only differentiate the crash type which is multiple, pedestrian and single during day and night.

No, the data type won't change because I don't transform the data.



Include this file as evidence for your Demonstration 2