School of Science, Computing and Engineering Technologies

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

A screenshot of a computer

Description automatically generated

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.

A graph with blue bars and numbers

Description automatically generated

Your Question 2

A screenshot of a computer

Description automatically generated

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.

A graph of a number of people

Description automatically generated with medium confidence

Your Question 3

A screenshot of a computer

Description automatically generated

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.

A graph with blue rectangles

Description automatically generated

Include this file as evidence for your Demonstration 2