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 - What is the trend in fatalities over the years?

Data used: Number of fatality column, Year column

The trend of car fatality over the years

Your Question 2 – Which state has the highest percentage of accidents?

Data used: Crash ID column, State column

NSW has the highest percentage of Australia’s state accidents.

Your Question 3 – Which day of the week have the most number of accidents?

Data used: Crash ID column used, Day week column used

Saturday has the highest number of accidents.

Include this file as evidence for your Demonstration 2