**COS30045 Data Visualization**

**Exercise 1**

Student ID: 104170800

Student name: Cao Minh Nhat

**Step 2: Become familiar with the data set**

* How do you know what the data in each column represents?

By looking at each column’s name, they are all namedA screenshot of a computer

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What data columns will you need to to answer the following questions?

* + 1. What type of TV screen technologies are **currently available**in Australia and which are the most frequent?

Screen\_Tech, they have plasma and the most frequent one is LCD

* + 1. What screen sizes are available and which are most frequent?

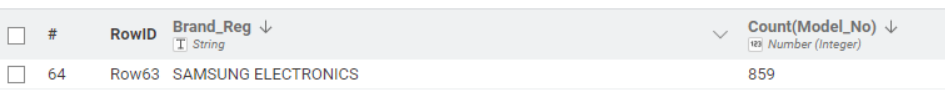
We can have a look at Statistics -> screensize A screenshot of a computer

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* + 1. Which brands have the largest number of models?

Use Group by node then aggregate A screenshot of a computer

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Then filter maximum 

* + 1. Which type of screen technology consumes the least amount of power?

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* + 1. What is the relationship between screen size and power use?

They go together, high together and low together

A diagram of a column filter

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* + 1. What is the relationship between star rating and screen size?

Most good rating is for screen size over 100 and below 200

* + 1. Are there differences in power consumption between brands?

Yes, a lot

* + 1. Any other questions you can think of that could be investigated with this data set?
* In China, which brand sell out the most?
* Which brands produce and sell TV in the same country? List them?

Step 3: Clean the data set

Add a node then configure it:

A diagram of a missing data

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Step 4: Data transformation

Cm to inch: add node math formula and then configure:

A diagram of a missing value

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Create a new variable that groups screens according to their advertised screen size category

* First add another column according to the screen, for example: A screenshot of a computer

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* Then add another node filter the row:

A screenshot of a computer

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