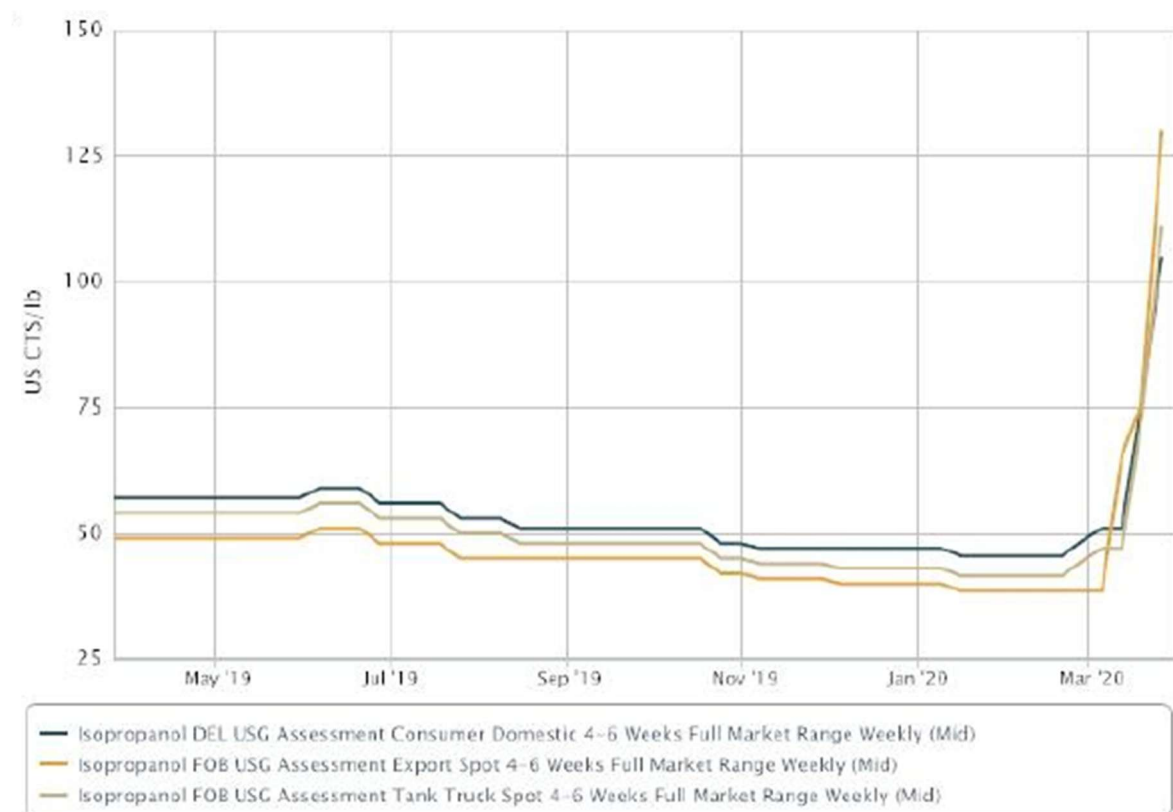


L2T06 - Data Visualisation - Approach and Techniques

Practical Task 1

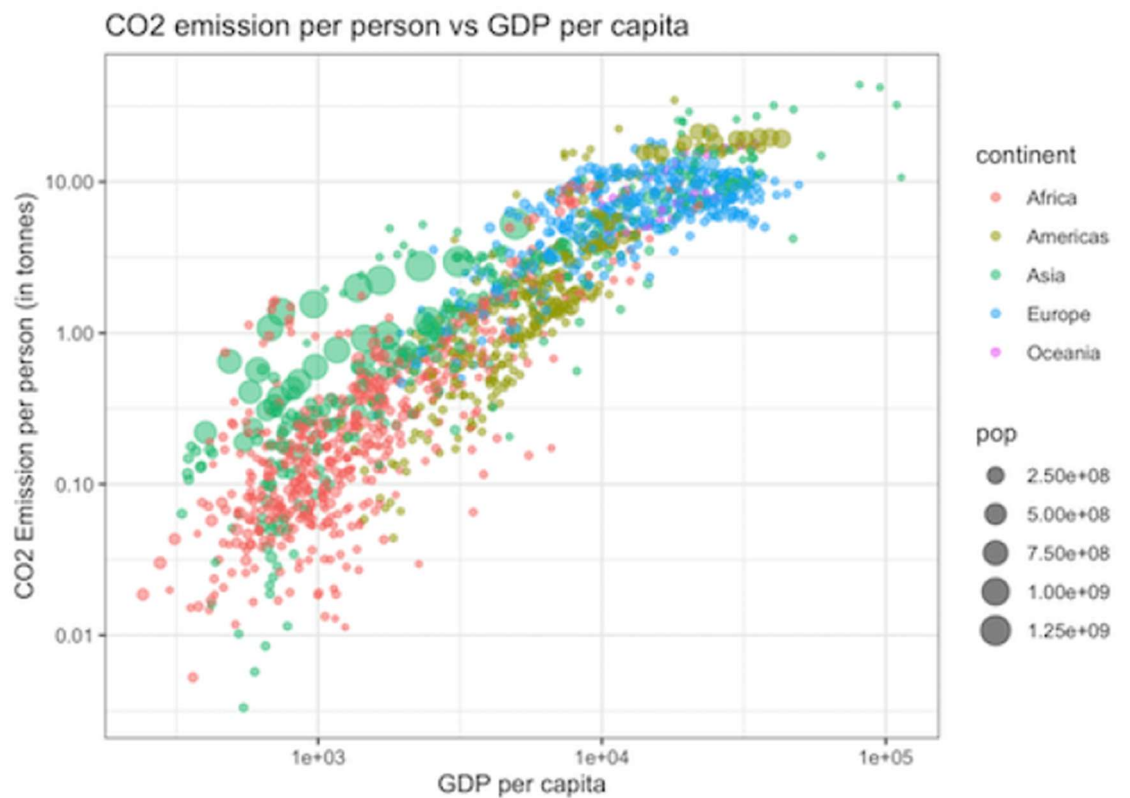


- Which three countries have the lowest gender wage gap?
 - Costa Rica
 - Belgium
 - Denmark
- Which three countries have the highest gender wage gap?
 - Korea
 - Japan
 - Chile
- Costa Rica achieved the lowest gender pay gap according to the OECD as the systems that prioritise education, health and social security have been in place for a sustained period. Costa Rica's encouragement of foreign direct investment and trade liberalisation have built a sound foundation for the economy and promoted a 'rising tide raises all boats' ideal bringing more women more effectively into the workforce



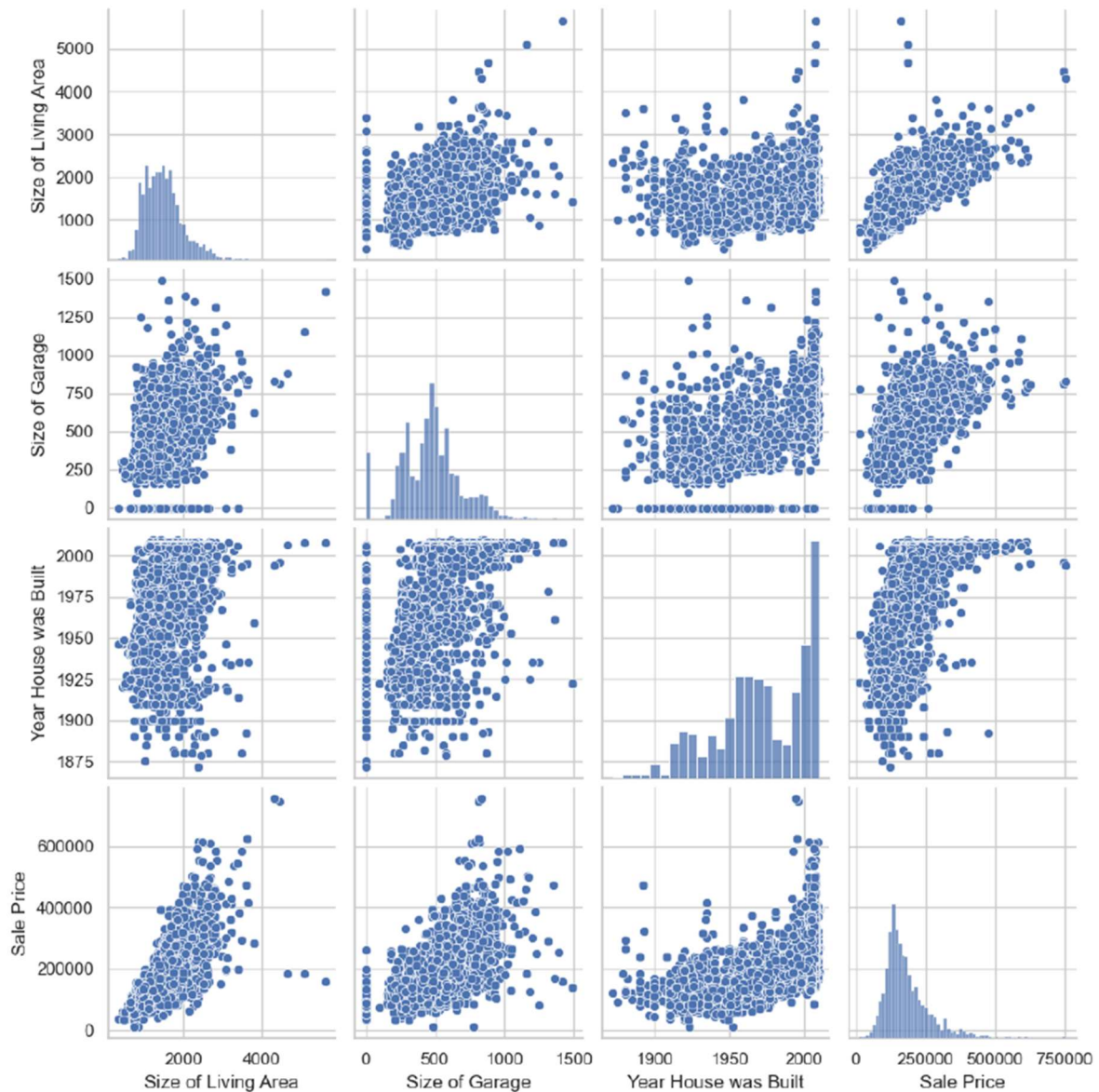
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- Explain what is happening in the graph during March 2020 with regards to isopropanol sales
 - According to the graph during Mar 2020 there was an approximate 150% increase in sales of isopropanol
 - One likely reason for the increase was the onset of the COVID-19 pandemic where the need to keep hands and surfaces clean and disinfected rose dramatically



- Discuss the relationship between CO2 emissions per person and GDP per capita for each continent listed in the figure legend
 - There is a generally proportional relationship between GDP per capita and CO2 emissions per person where the emissions increase in line with per capita GDP
 - Lower per capita GDP tends to relate to lower CO2 emissions whereas higher GDP per capita tends to relate to higher CO2 emissions
 - Asia appears to be a slight outlier in that countries appear to produce more CO2 per person at a lower GDP per capita than African countries that appear to have a similar GDP per capita level
 - Asia appears to have some smaller outliers at both ends of the graph in that some smaller countries in the continent have both lower than average ratio between CO2 and GDP and some on the continent have very a much higher ratio
 - Europe is most tightly clustered at the higher end of GDP and CO2 as one would expect from older more developed economies
 - The Americas look to be split either side of Europe which one would assume to be North America above in terms of size of population as well as higher GDP and CO2 ratios whilst South America is clustered below Europe in terms of ratio

Practical Task 2



- What do the graphs along the diagonal represent?
 - Size of Living Area
 - Size of Garage
 - Year House was Built
 - Sale Price
- Are most garages in Ames larger or smaller than 1000 ft²?
 - As the largest concentration of bars in the relevant chart are all greater than 1000 ft² it would accurate to say that most garages in Ames are larger than 1000 ft²
- Are the most expensive houses in Ames built before or after 1950?
 - Whilst there are a few outliers where the Sale Price is greater than USD 400k but the house was built before 1950 the vast majority of houses with Sale Price greater than USD 400k were indeed built after 1950
- Describe the relationship between 'Size of Living Area' and 'Sale Price'

- There is a general correlation between Size of Living Area and Sale Price where the higher the living area the higher the sales price. There are small number of outliers where the living area is actually the highest out of all properties surveyed but the Sale Price does not rise above USD 200k. This could be explained by various factors such as location and condition of the property.