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# DATA ANALYSIS AND VISUALISATION - ACCB4002

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## *Assessment -1 Analysis and Visualisation of Data*

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BSc Cloud Computing Level 4 Term 2 Group 1

London

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## INTRODUCTION TO DATASET

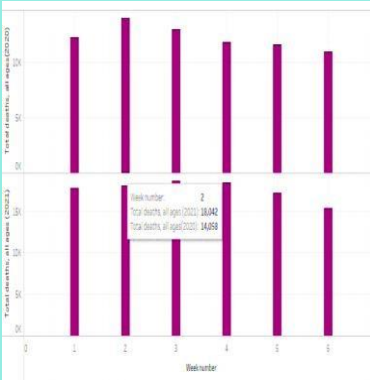
In this task, we are visualizing and analyzing the covid19 related data about the number of deaths caused due to covid19 in England and Wales. We are visualizing this data in the software tableau. In this software, we can easily analyze and visualize the data to guide business strategy. With the help of this data, we can improve our healthcare system and can improve our health by analyzing the data.

We have data regarding the covid19 dataset which is recorded in the UK. This dataset contains more attributes like deaths of males and deaths of females, etc. Firstly, we will visualize number of deaths in the year 2020 and 2021 from the given dataset.

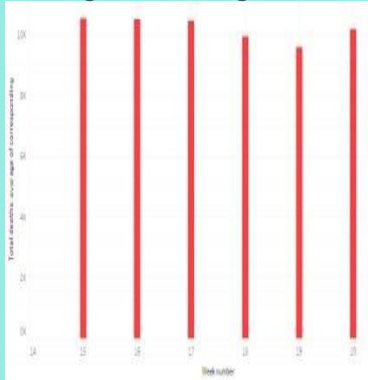
## VISUALIZATION

### Infographic of given dataset

**Total death varied b/w week 1 to 6**



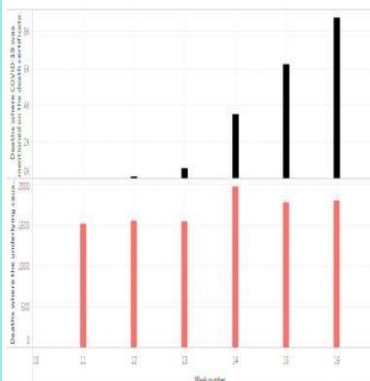
**Total avg deaths b/w eng vs wales**



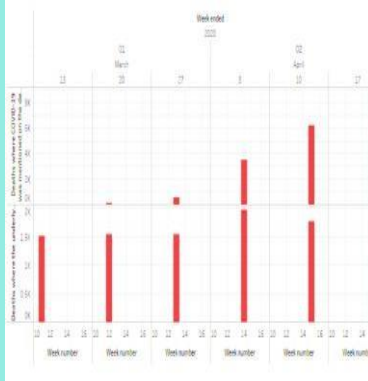
**Diff. b/w respiratory disease and cov19**



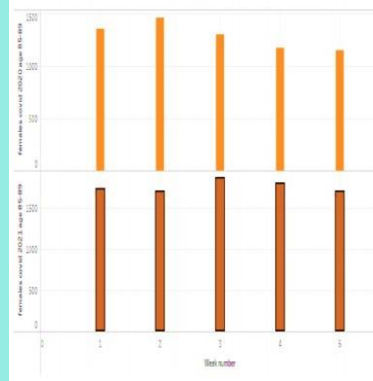
**Diff. of deaths above 90**



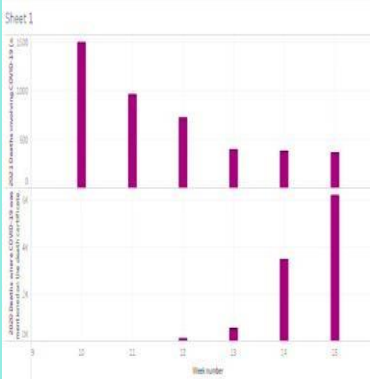
**Diff of males death**



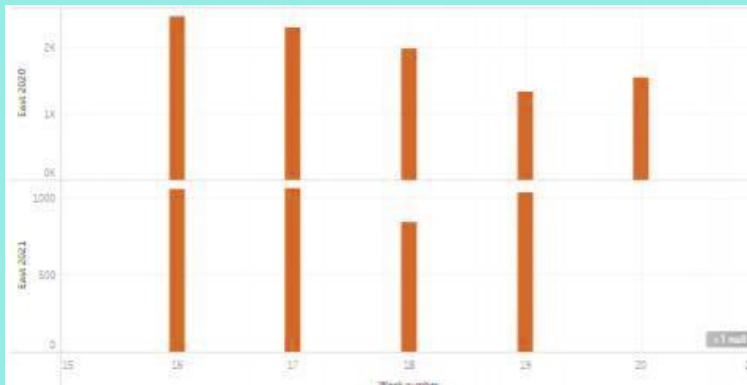
**Diff of female death**



**Diff of deaths on death certificate and cause**



**Diff of deaths b/w 2020 and 2021**



- Number of deaths varied from week 1 to 6 in the years 2020 and 2021.

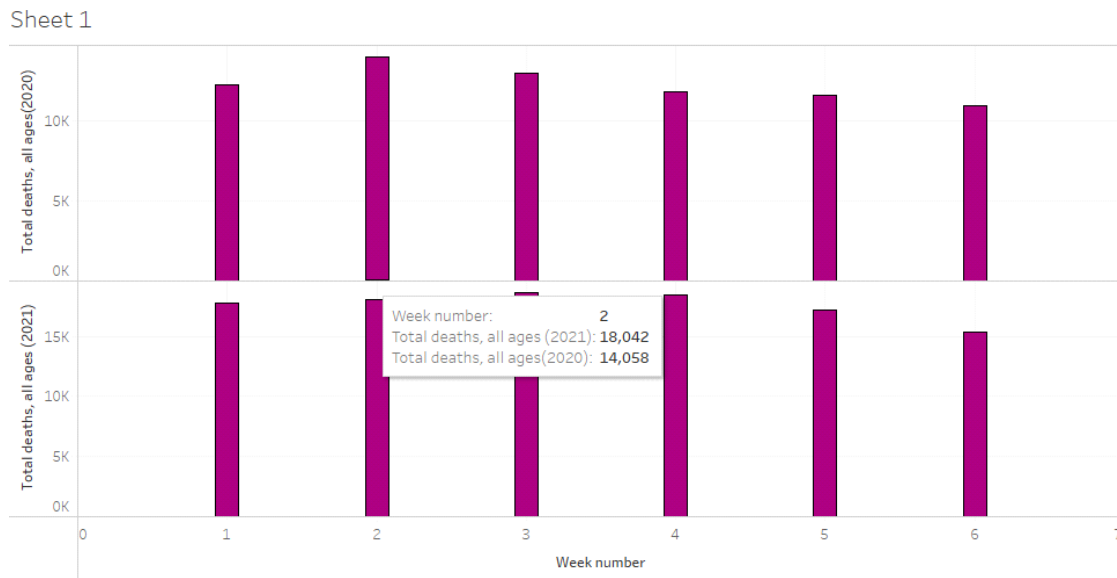


Fig.2 total number of deaths varied from week 1 to 6 in the year 2020 and 2021.

The above graph is presenting the total deaths that occurred in both the year. The 6<sup>th</sup> week. We can clearly analyze that in the first week more deaths occurred in the year 2021 which is more than 15K whereas in 2020 the total number of deaths in the first week reaches more than 10K. We can analyze the other weeks from the above graph. In the 2<sup>nd</sup> week of 2020, there is a peak in the deaths and after that slowly decreases in the number of deaths.

- Average deaths in Wales and England 2020.

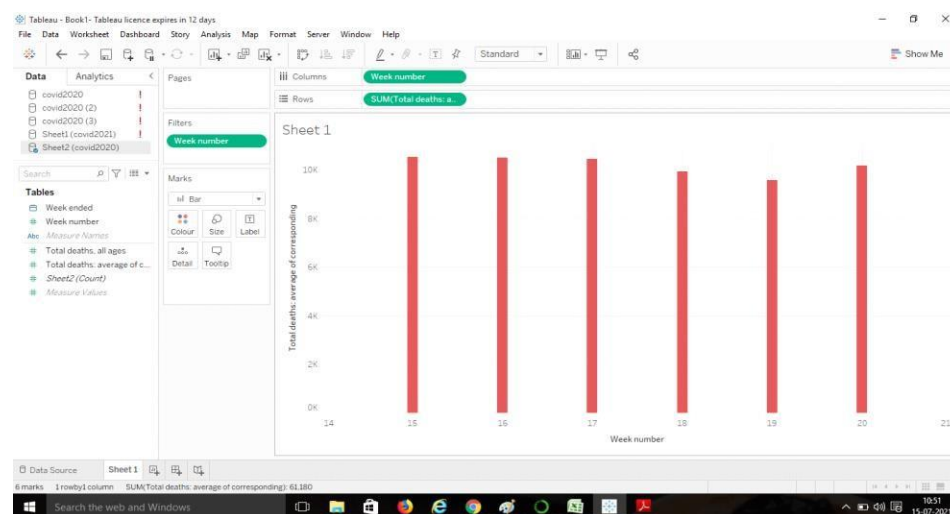




Fig.3 deaths in Wales and England in the year 2020.

The above graphs present the total average deaths in Wales and England in the year 2020. From both graphs, we can analyze the data clearly. The above graph shows us the total average number of deaths from 15 to 20 weeks and the below graph shows us that particular week which month is coming. The graph shows us the average death in 15 weeks.

- Differences of the deaths due to respiratory and covid19:

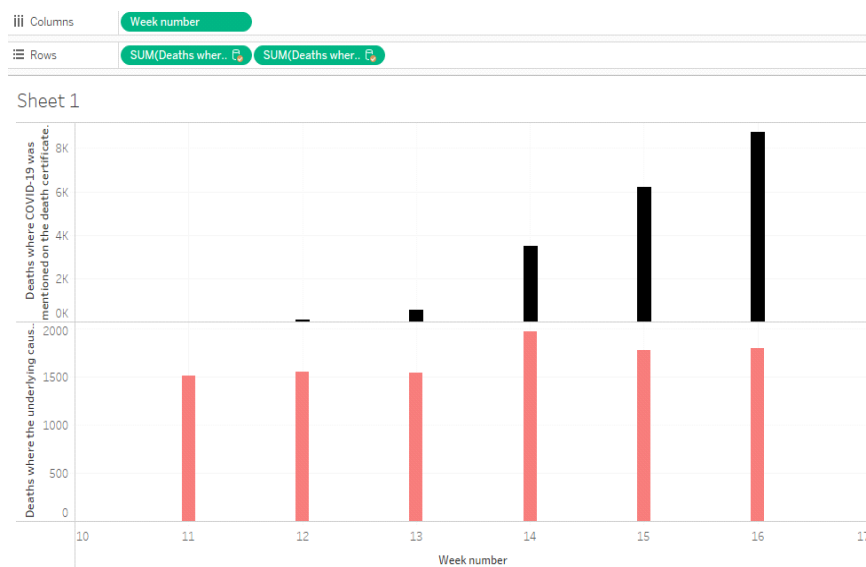




Fig.4 Differences of the deaths due to respiratory and covid19

The above graph tells us the number of deaths that occurred due to respiratory and covid19. Both graphs telling us the same story below show us the month and week whereas the first graph only shows the weeks.

- The deaths were over age of 90+ in both years.

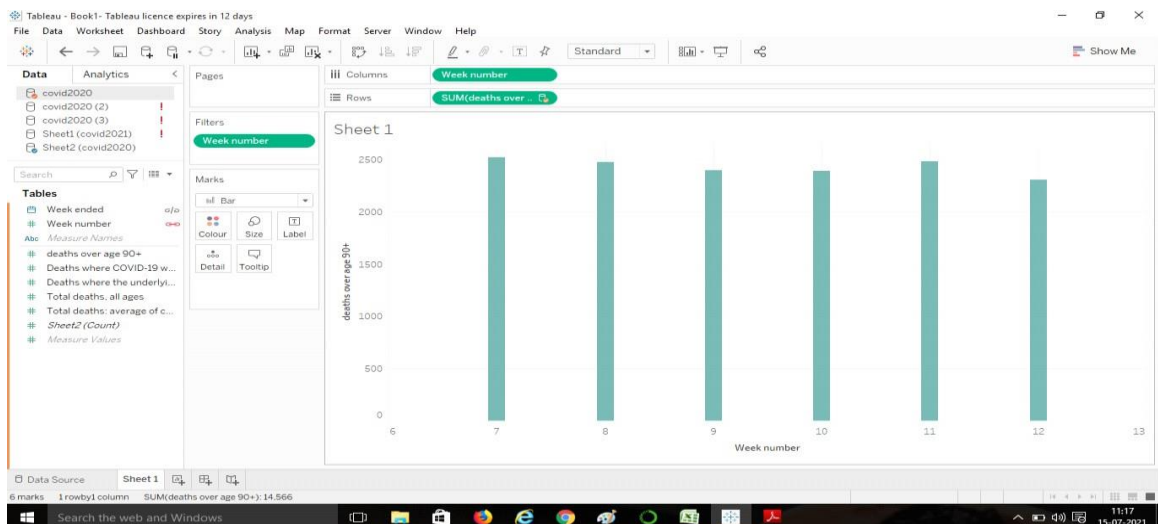


Fig.5 deaths over Age 90+ in both years.

The above graph shows the deaths that occurred over the 90+ age from week 7 to 12. We can analyze the above data. At the start of the week. There are increases and slowly decreases in the deaths of the people who are above 90+ and after that, there is a peak in week 11 and again decreases.

- Deaths happened between the age group 75-79 males in both years 2020 and 2021.



Fig.6 Deaths happened between the ages 75-79 males in both years 2020 and 2021.

The above graph represents the number of deaths that occurred between 75-79 males in 2020 and 2021. We can analyse and draw insights from the graph. In the year 2020, there are fewer deaths as compared to 2021 initially as the weeks increase the number of deaths start to increase. As week 16 reaches its peak in the deaths of males in the year 2020.

- Female deaths in the years between the age group 85- 89 between the weeks 1 to 5.

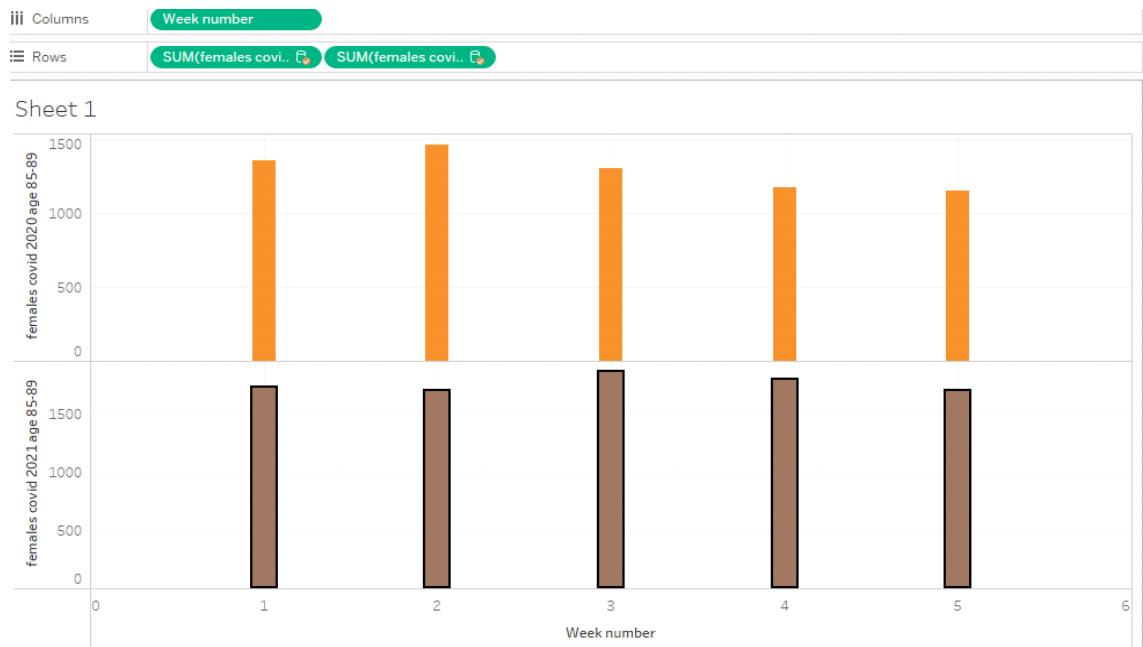


Fig.7 Female deaths in the year between the age group 85- 89 between the weeks 1 to 5.

Above graph represents the total number of female deaths from 85-89. There is no more difference in both of the years 2020 and 2021. We can analyze that the number of deaths from week 1 to 5 is a little bit similar because there are constant deaths that occurred in both years.

- Covid19 deaths mentioned in the death certificate and underlying cause between week years, Whereas weeks 10 and 15.

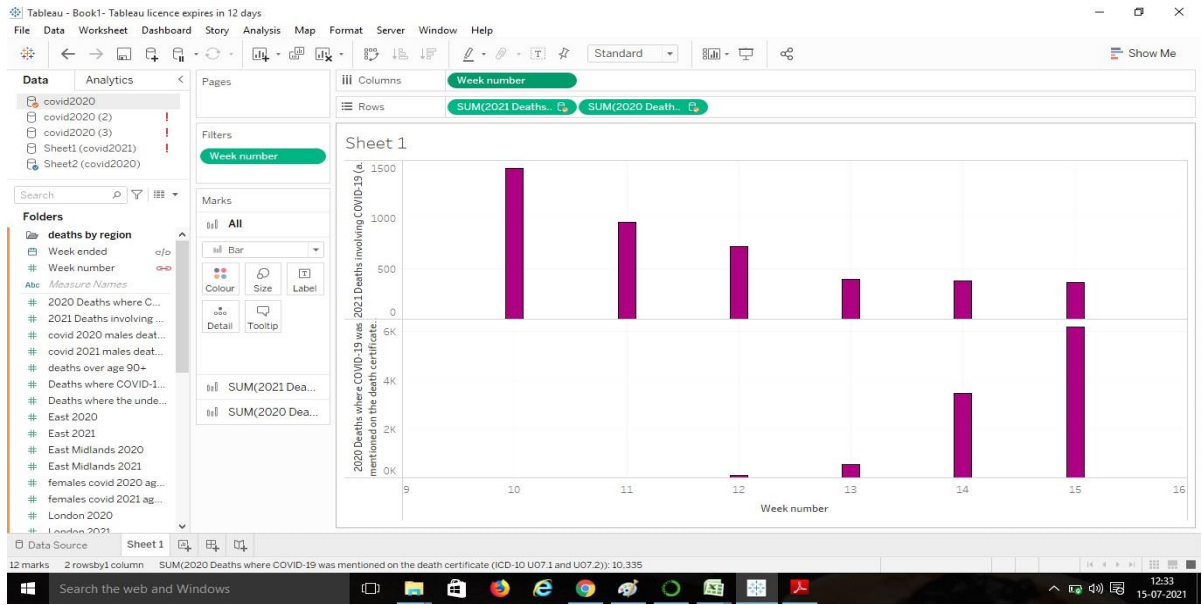


Fig.8 Covid19 deaths mentioned in the death certificate and underlying cause between week years, Whereas weeks 10 and 15.

The above shows the deaths according to the certificate in both years 2020 and 2021. In the year 2020, there is initially a smaller number of deaths because the covid19 started in that year so there are less deaths and the deaths increase as the number of week's increases. Whereas in the year 2021 the death rate is high initially and starts decreasing as the number of weeks increases.

- Differences of deaths by region between the years 2020 and 2021 over the week between 16 and 20.

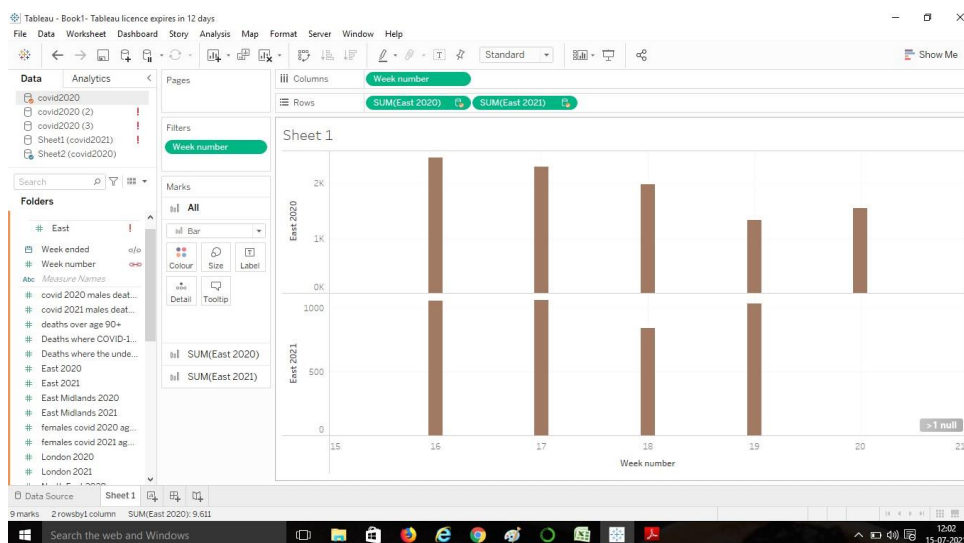


Fig.9 This shows us the deaths in the east region in both years 2020 & 2021.



Fig.10 This shows us the deaths in the east midland region in both years 2020 & 2021.

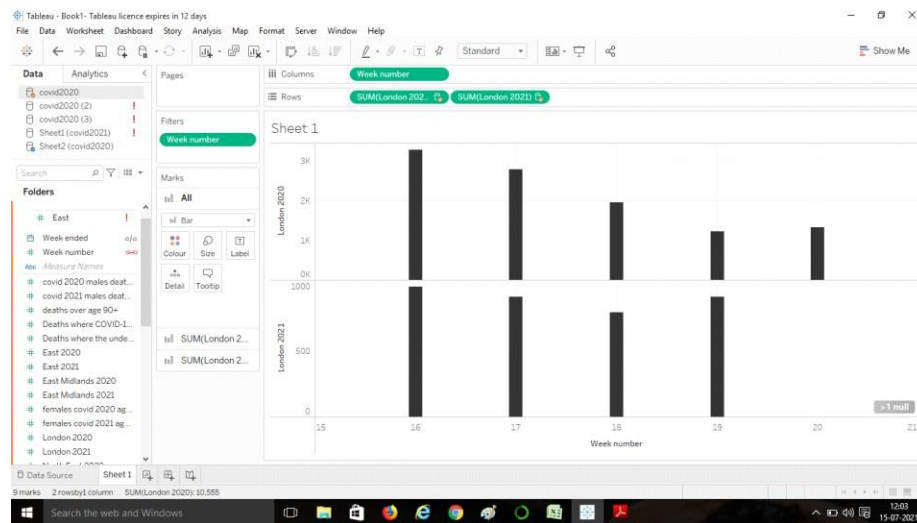


Fig.11 This shows us deaths in the London region in both years 2020 & 2021.

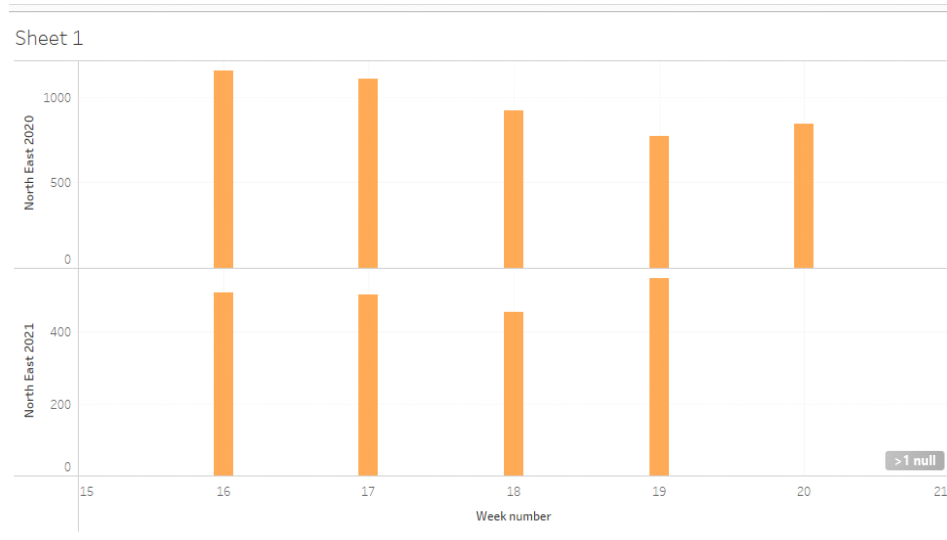


Fig.12 This shows us deaths in the Northeast region in both years 2020 & 2021.

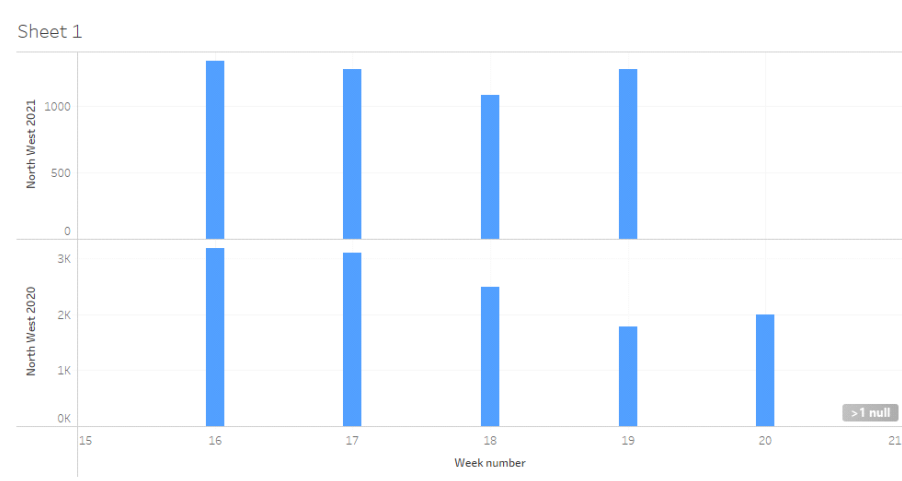


Fig13 This shows us the deaths in the Northwest region in both years 2020 & 2021.

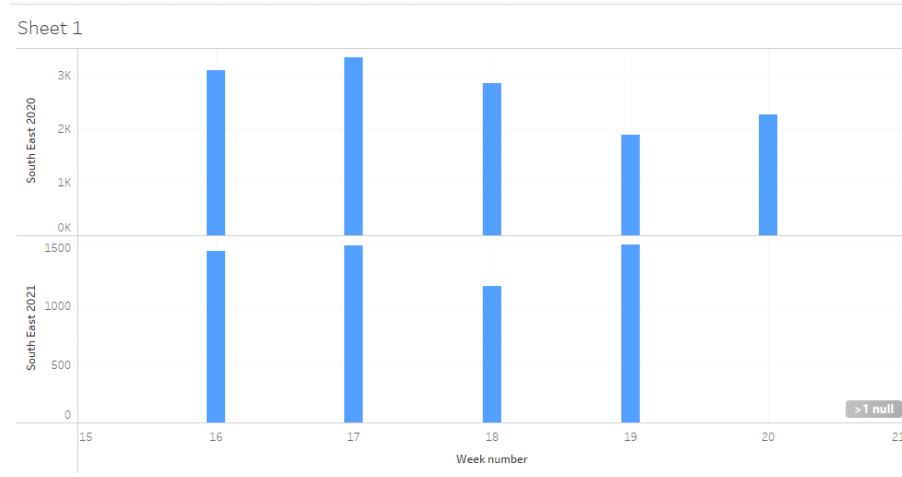


Fig.14 This shows us the deaths in the Southeast region in both years 2020 & 2021.

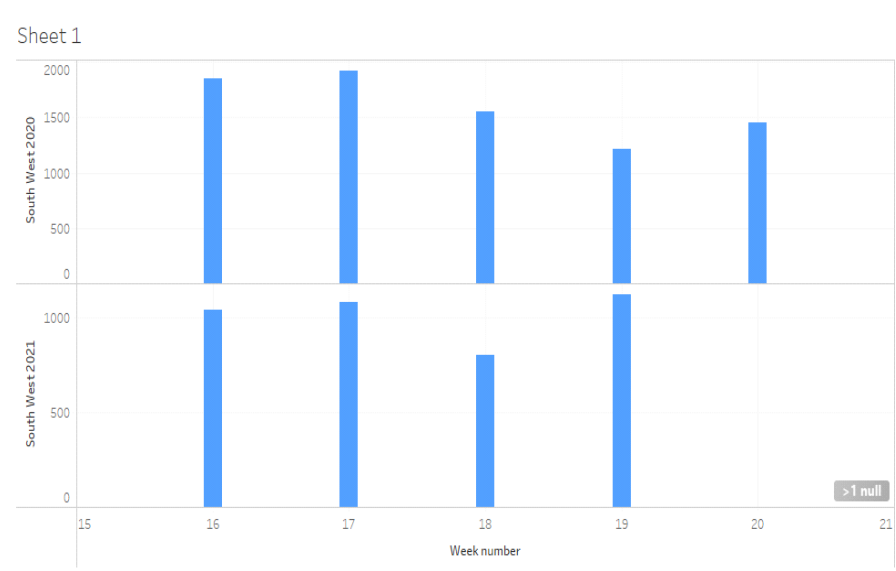


Fig.15 This shows us deaths in the South West region in both years 2020 & 2021.

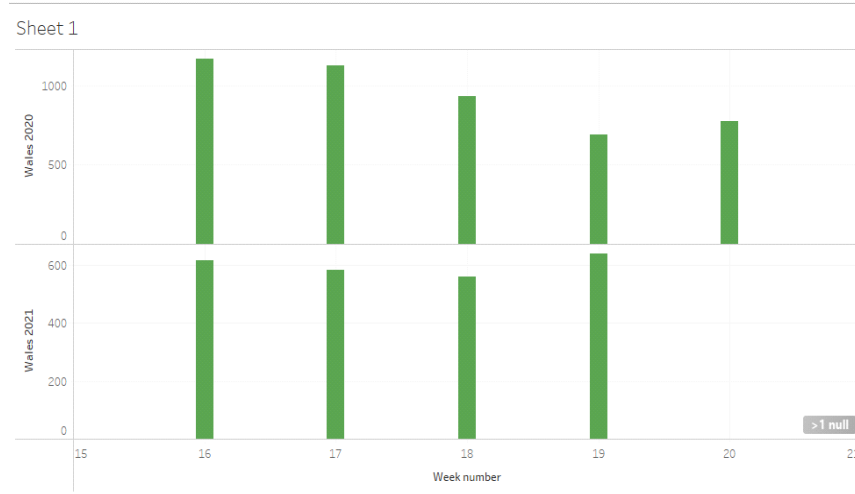


Fig.16 This shows us deaths in the Wales region in both years 2020 & 2021.

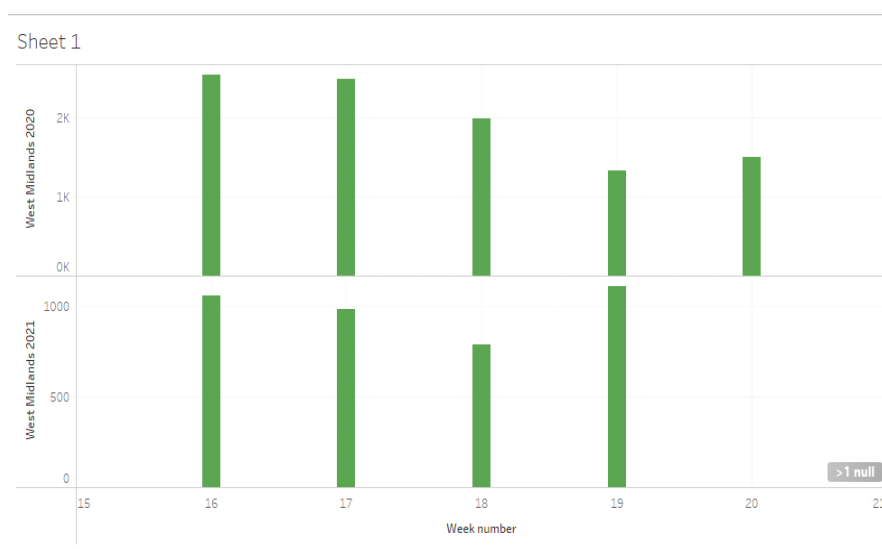


Fig.17 This shows us the deaths in the West midland region in both years 2020 & 2021.

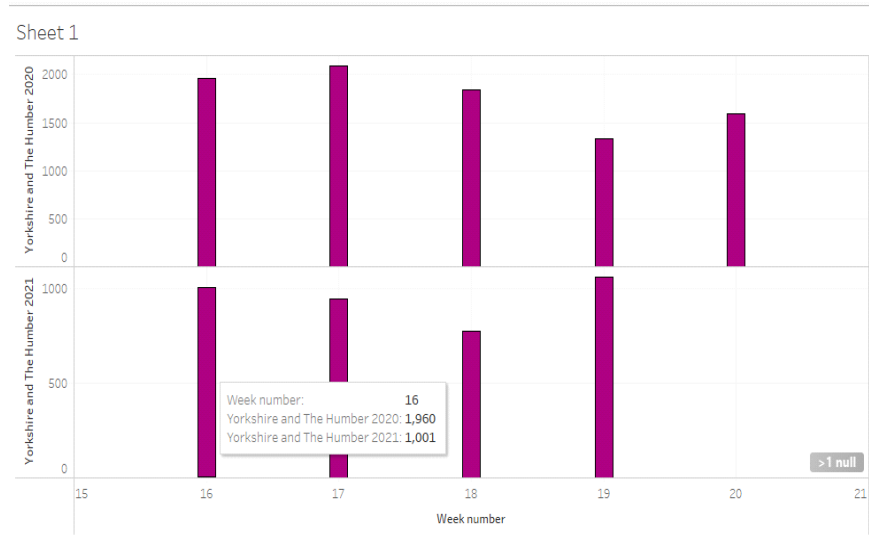


Fig.18 This shows us deaths in the Yorkshire region in both years 2020 & 2021

