Task 2.5
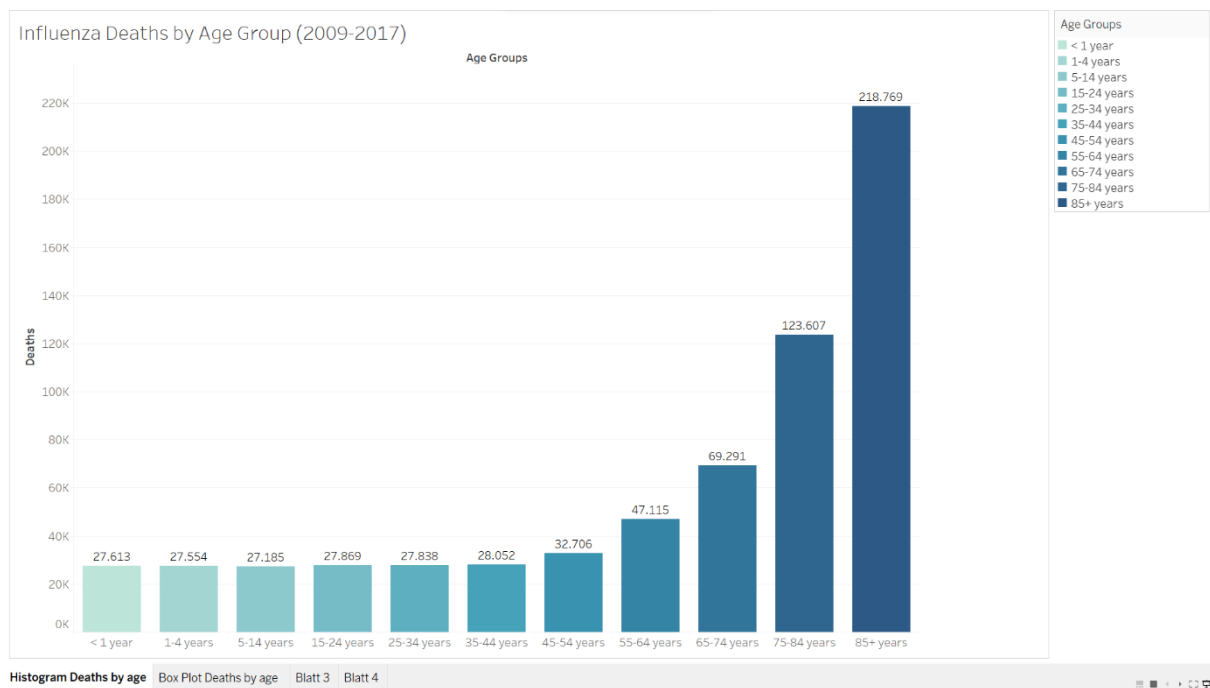
Mnguni Zulu

23.10.2023

Link:
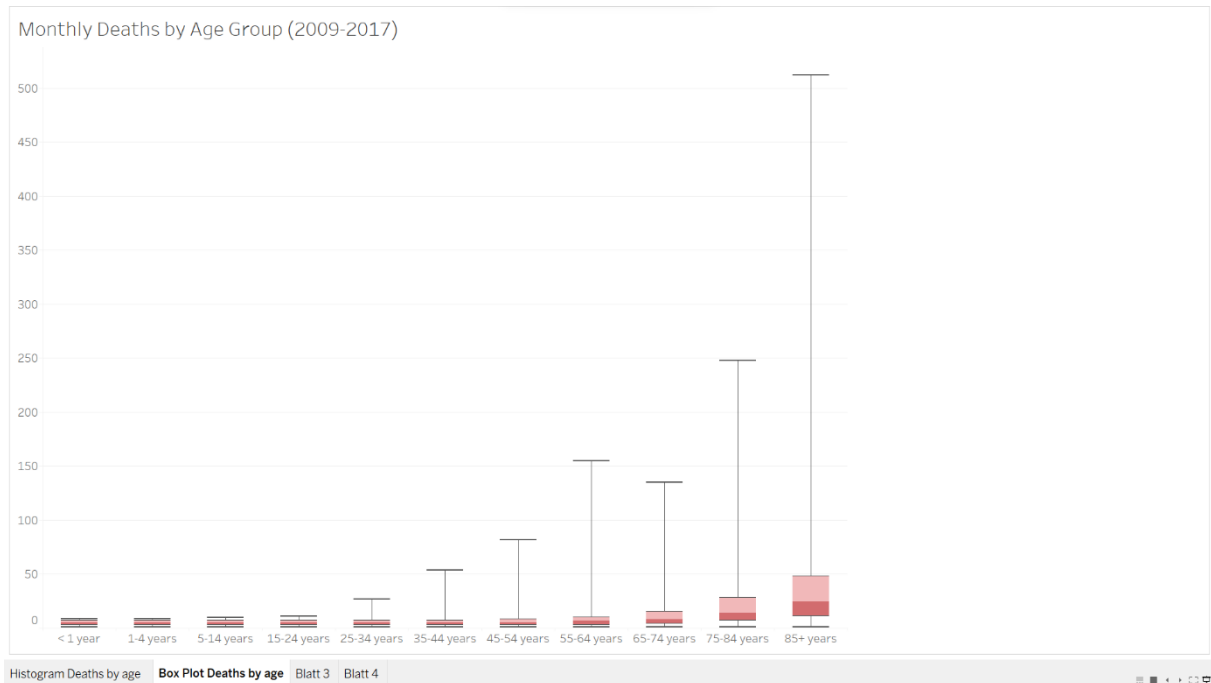https://public.tableau.com/views/Task2_5_StatisticalVisualisations/HistogramDeathsbyage?:language=de-DE&publish=yes&:display_count=n&:origin=viz_share_link
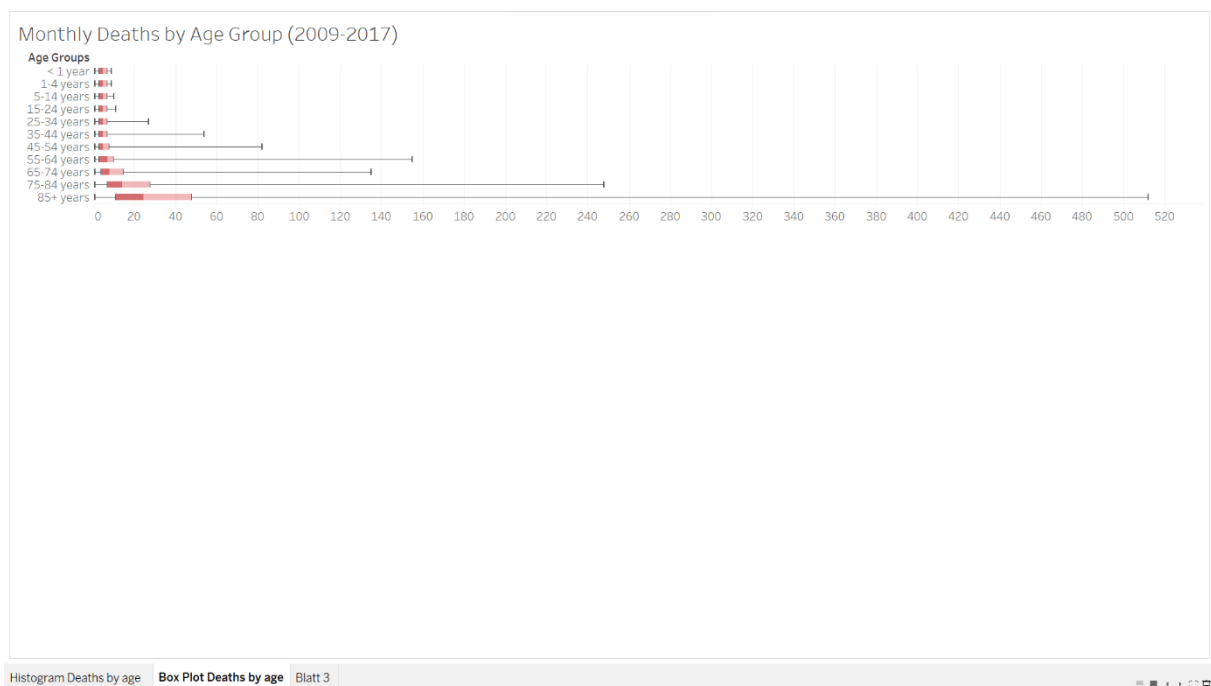
1. Histogram

c) Younger and older populations are not equally vulnerable. The age groups from under 1 to 35-45 years have about similar frequencies of death (similar death counts). Age groups, 45+ have ever increasing frequency of deaths. The age group 85+ has the highest frequency of deaths from Influenza.

d) There are no age groups that have zero deaths.

2. Box Plot

Monthly Deaths by Age Group (2009-2017)

4. Where the frequency table can tell us the **total sum of deaths for each age group**, the box plot shows us **how the frequency of those monthly deaths is distributed.** Put differently, the number of deaths in a month, and their relation to median, average, quartiles, and minimums/maximums. So, we can see that some months in some states had more than 500 deaths in a single month.

Alternative Box Plot

Monthly Deaths by Age Group (2009-2017)

Visualisation Checklist

Criteria	Requirement	Answer
Text	The title and text are very descriptive, and the format of presentation conveys the essence of the visualisation.	Yes
	There are text labels.	Yes
	There is no redundant text.	Yes
	There are legends which describe the colours used and the abbreviations fully.	Yes
Colour	The colour scheme communicates importance of information.	Yes
	The colours are arranged in a meaningful way, which doesn´t create confusion but aids in the conveying of information.	Yes
	The information can be ordered as more or less important, and depending on the interest of the viewer, it would be easy to identify information important to the viewer.	Yes
	The use of colour sufficiently communicates any spectrums which exist.	Yes
Other	Key identifier is communicated first.	Yes
	The colour of the line immediately tells of the positioning relative to the spectrum of values.	Yes
	There is enough white space so that the visualisation is not cluttered.	Yes
	The labels are strongly contrasted, and the shading may be sufficient for colour-blind stakeholders to understand what is being communicated.	Yes