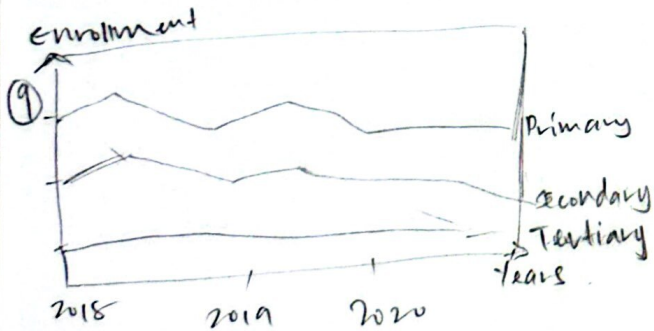
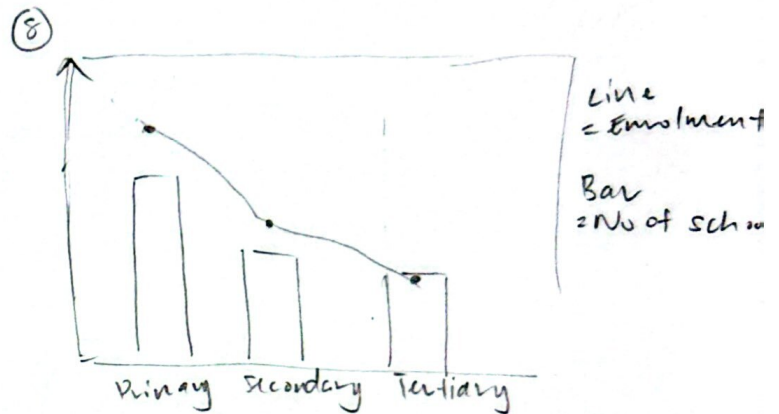
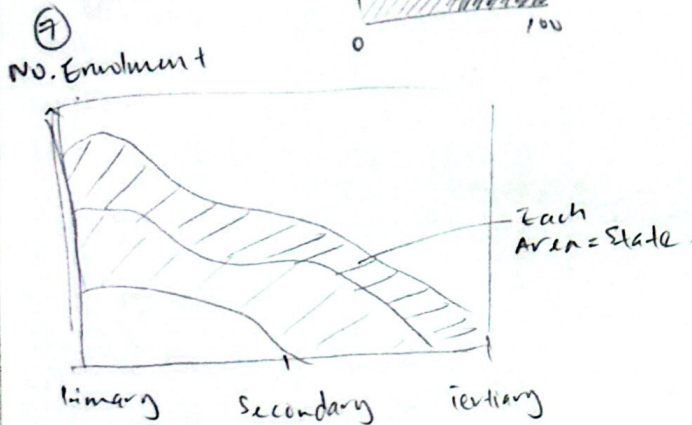
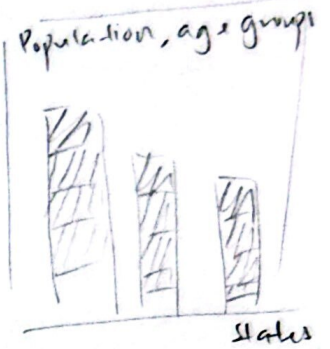
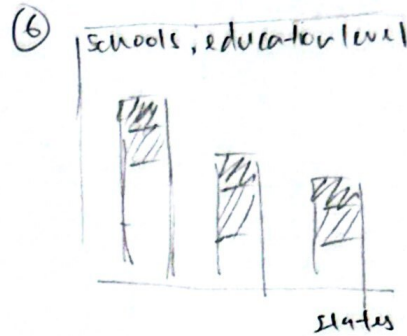
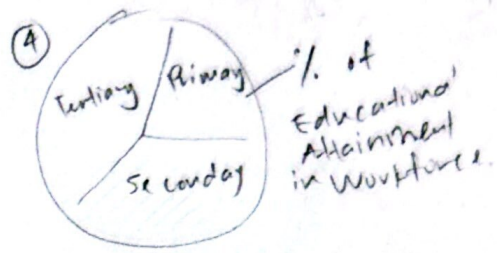
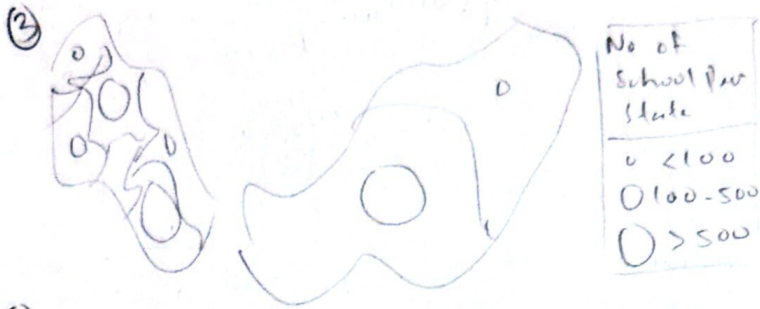
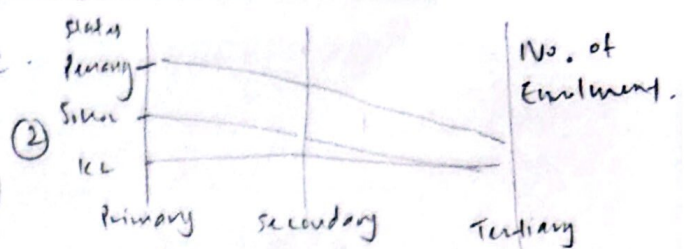
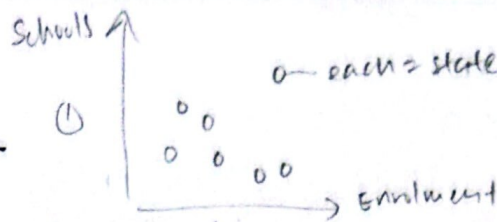


Ideas



Categorize

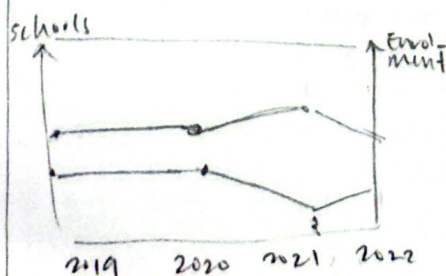
- ④ → Education vs Workforce
- ⑤ & ⑥ → Schools vs Population
- ⑧ → Enrollment in years
- ⑨ → Schools vs Enrollment
- ⑦ → Enrollment change from Primary to Tertiary

Filter

- ① - shows enrollment vs no. of schools for only a year / aggregate → could show changes in years with line chart?
- ③ vs ④ → ③ only number of schools
- ② vs ⑦ → ② could be confusing, all off states / similar values

Combine & Refine

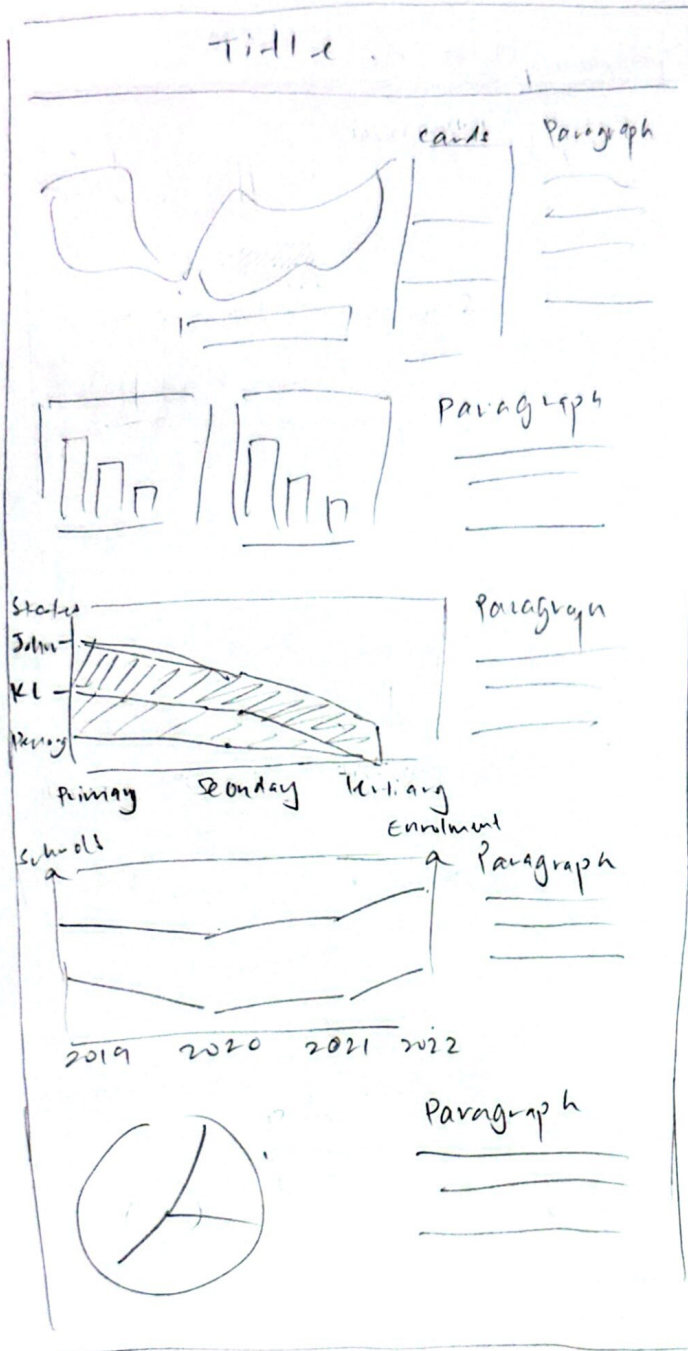
- ⑧ & ⑨ combine to show no. of schools vs enrollment through years.



Question

- could filters be used for a clearer story?
- Arrangement to tell story?
- if values need normalizing?

Layout



Title: F113179 Visualisation #2

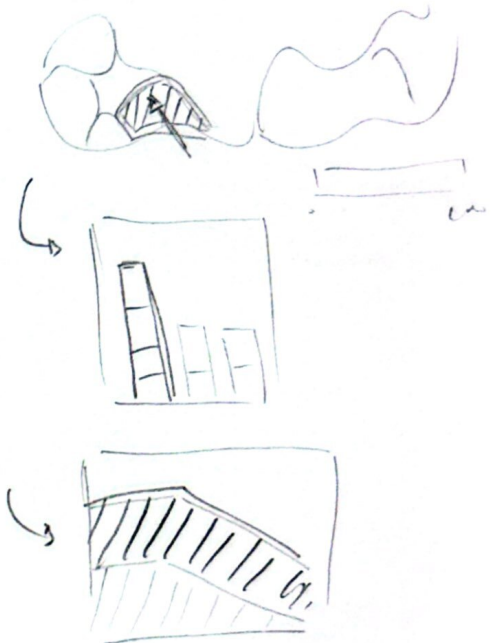
Author: Tan Hui Xin 33562008

Date: 5th October 2025

Sheet #: 2

Operations

- Clicking a state of the map, changes opacity of map & bar & area to focus on the state.



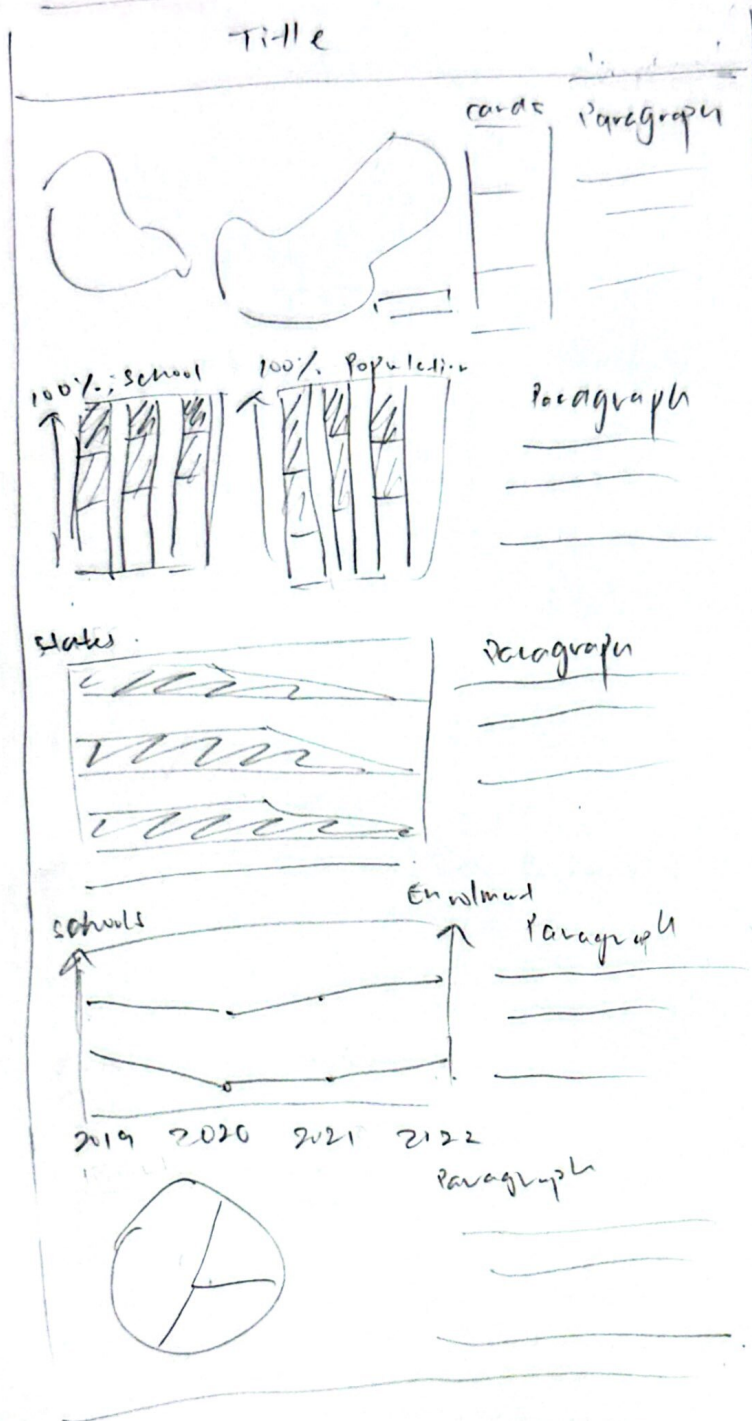
Focus

- Choropleth map shows distribution of schools vs population in each state.
- Bar charts drill down to show education levels vs age groups.
- Area chart shows how enrollments drop in higher education levels.
- Line chart schools vs enrollment throughout years.
- Pie chart, education attainment vs workforce.

Discussions:

- Bar chart, each state population different, normalize to show distribution?
- Area chart, values in multiple states similar, overlapping of marks.

Layout.



Title: HT3179 Visualisation #2.

Author: Tan Hui Xin

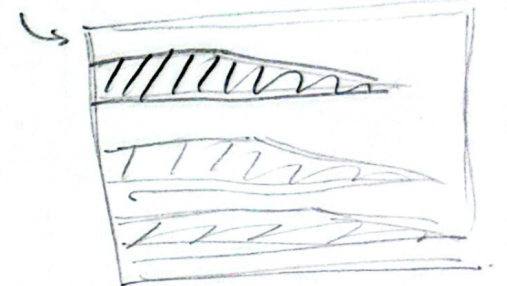
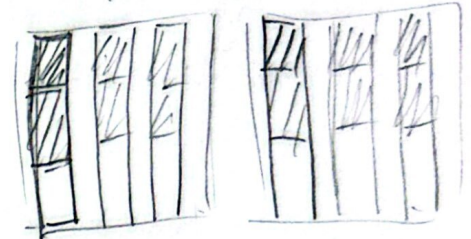
Date: 5th October 2025

sheet #: 3

Operations.

- Same as sheet 2, clicking state changes opacity of bar and area chart

→ 100% stacked bar chart



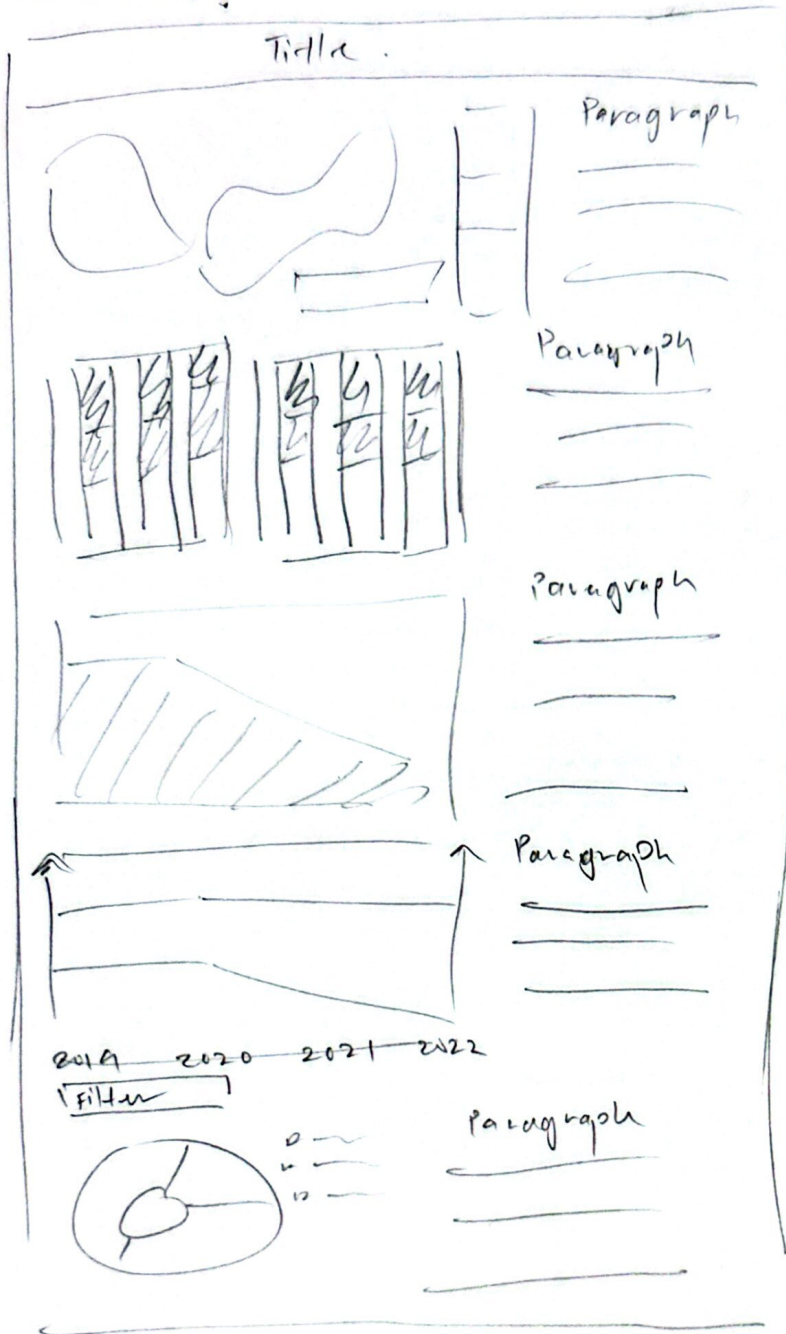
Discussions

- Is facet by state needed for area chart if focus is the number of enrollment dropping each level?
- Can a filter be added to the line chart for more in-depth analysis?

Focus

- Bar chart → 100% stacked bar chart to normalize distribution, since size of state / population different
- Area chart → faceted area chart by state to prevent overlapping.

Layout



Title : F173179 Visualisation 2

Author : Tan Hui Xin

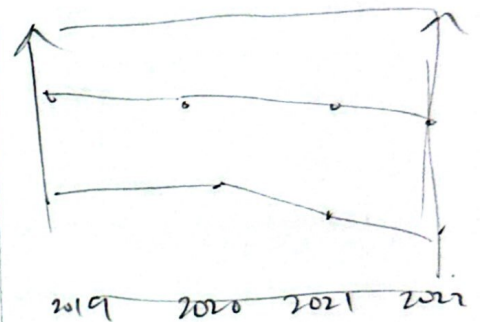
Date : 5th October 2025

Sheet #: 4

Operations :

- Same opacity after for map + bar, area no longer facet by state.

- Duplication for line chart by education level



Select Level	Total
	Primary
	Secondary
	Tertiary

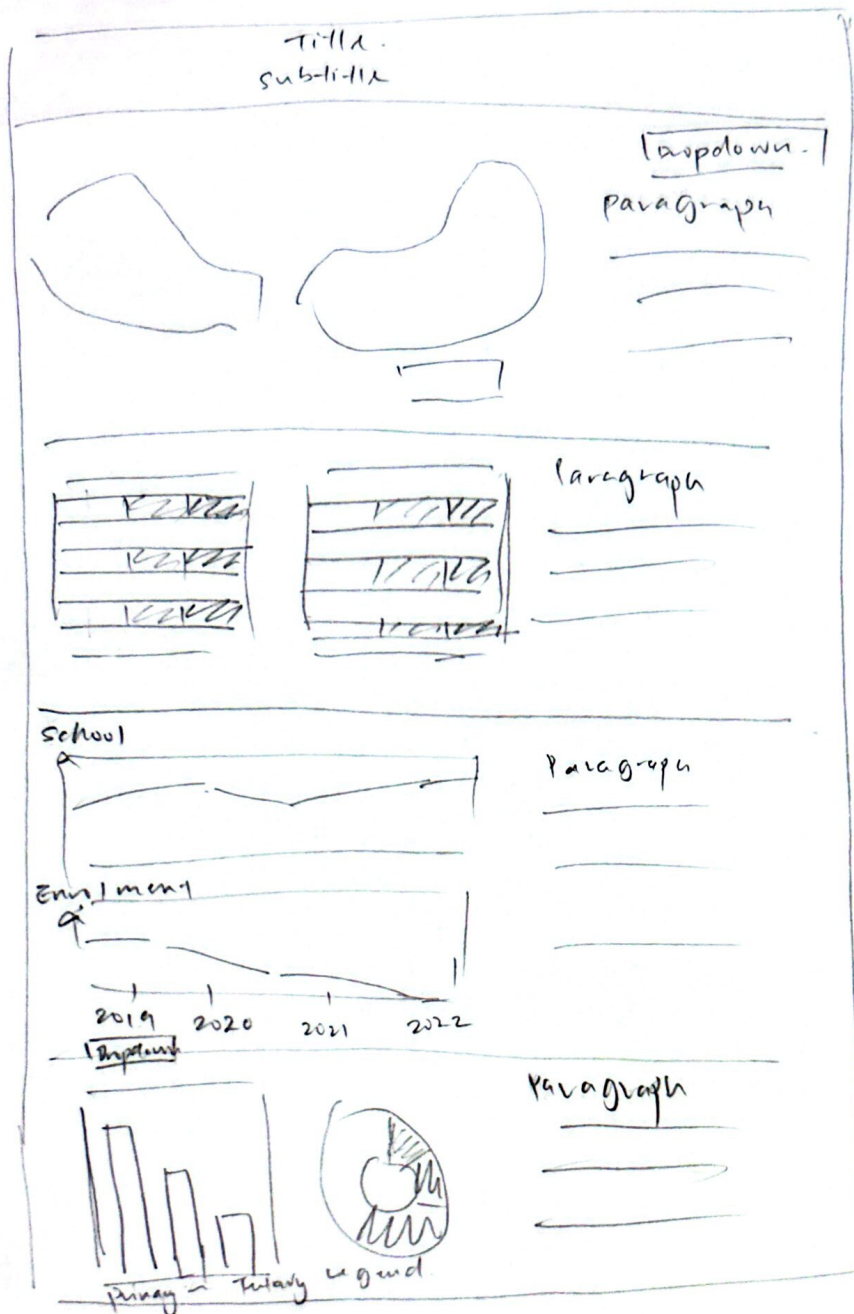
Focus :

- Facet area → one aggregated area.
- Pie Chart → Donut chart, can add annotation in the middle.

Discussions :

- Area chart correct idiom? Information to convey is simple compared to the chart choice.
- Donut chart + legend taking up excessive space, its paragraph too wide.
- Line chart dual axis?
- Cards needed?

Layout



Title : FH3179 Visualisation 2

Author : Tan Hai Xin

Date : 5th October 2025

Sheet # : 5

Operations :

- Dropdown instead of selecting/clicking state, not everyone knows the geographical information of Malaysia.

Malaysia
Tanah
Penang
Selangor
...

- Dropdown to select education level for the line chart.

Focus :

- changed area chart to simple bar chart and rearrange to same row as donut chart, saves space as both does not need long width and the story told is cohesive.
- Separate dual axis line chart into 2 sharing the same x-axis to show the correlation.
- changed stacked bar chart to horizontal instead, states on the y-axis looks more neat & readability.

Details

- Aggregation calculation to be done on Tableau / in data cleaning.
- Paragraph to tell story / provide narration.
- Story goes from distribution / access → outcome → reason / conclusion.