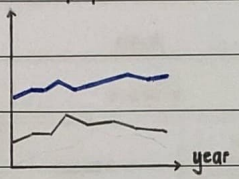
No.: ..... Date: .....

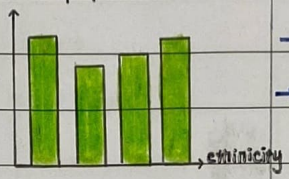
Sheet 1 : Brainstorming

IDEAS

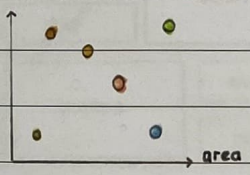
1. no. of people



2. no. of people death / birth



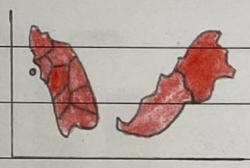
3. no. of people death / birth



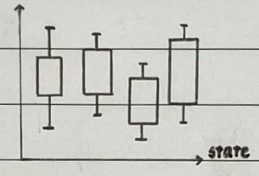
4.

- visualise the patterns of death / births of each state

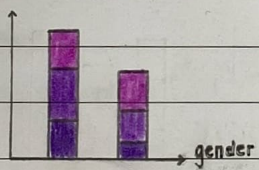
5.



6. no. of people death / birth



7. no. of people death / birth



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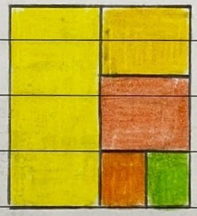
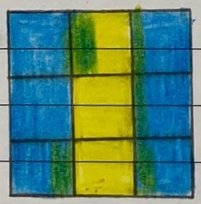


- visualise the correlation / culmulative of people death / birth

9.



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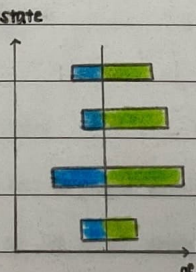


- visualise the pattern of number of birth / death in comparision

FILTER

- Chart 10 similiar to 4, but 10 can visualise more direct
- Chart 8 has the same information as 3
- Chart 5 similiar to 6, but 5 can visualise more clearly

CATEGORIES

→ Chart 1, 2 & 3

→ Chart 5 & 6

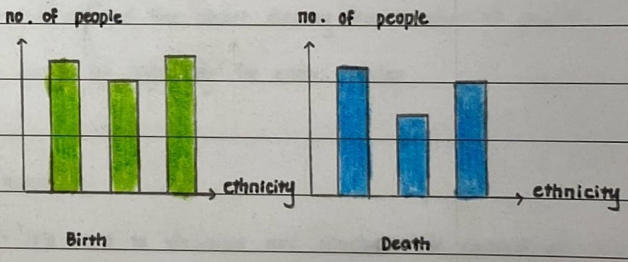
→ Chart 9

→ Chart 10

COMBINE & REFINE

- Chart 5 & 6 can combine and represent as either one chart, considering that not useful as there're no other insight data to visualise.
- Chart 1, 2 & 3 can be used as either one chart, since most of them have same insight data to visualise.
- Chart 2 can be combined by duplicating it.

COMBINE & REFINE CHART



QUESTIONS

1. Does it accurate decipt the number of birth and death over time for various gender, state and ethnicity ?
2. Easy to identify seasonal trends or fluncton in the number across the time ?
3. Does it shows the difference of births and deaths in overall ?
4. Is it possible for users to filter data by different combination in order to understand the usage ?

No.: ..... Date: .....

Sheet 3 : Initial Design 1

LAYOUT

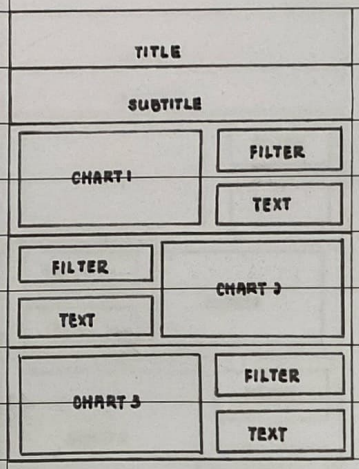


CHART 2

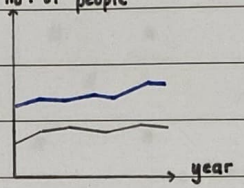


CHART 3

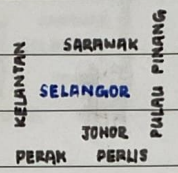
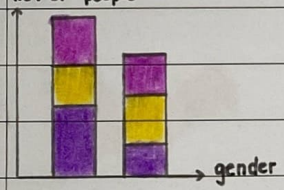
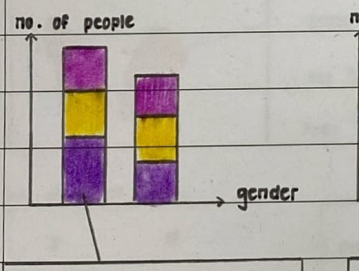
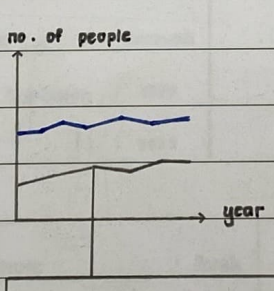


CHART 1



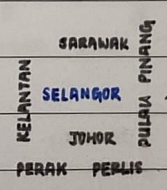
FOCUS





Year	: 3033
Total Number Death	: 7301
Total Number Birth	: 10.000
Net Population	: 3,309

Year	: 3033
No. of people birth	: 75,001
No. of people death	: 3,000



Year	: 3033
Density Population	: 0.37

TITLE : Dashboard Design 1

Author : Jui Kai Hang

Date : 15 / 10 / 24

Sheet : 3

OPERATION

- Changing the filter will alter the highlight section of the chart
- Toggle on the specific mark on each chart will display revelant information in tooltip

DISCUSSION - POSITIVE

- the line chart clearly desmonstrate the patterns of birth and death along the year
- the word cloud display relative number of population for each state
- the stacked bar chart display the number of people group by ethincity for each gender

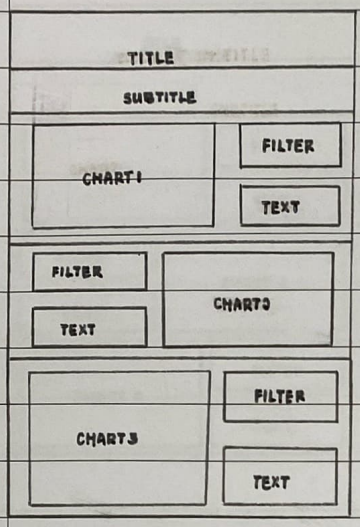
NEGATIVE

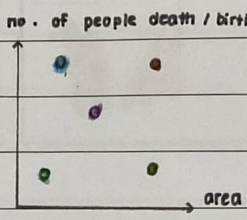
- it's hard to visualise and conclude the pattern of birth and death in Malaysia
- the word cloud only shows value relative to each other
- found it difficult to compare the individual segment in stacked bar chart

No.: ..... Date: .....

Sheet 3 : Initial Design 3

LAYOUT





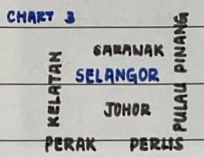
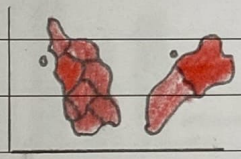
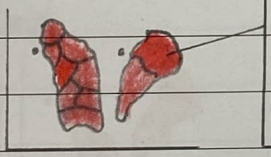


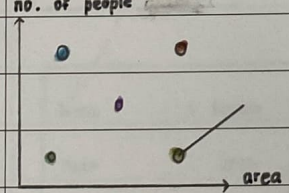
CHART 1



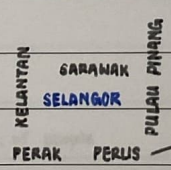
FOCUS



State	: Sarawak
Net Population	: 8000
Year	: 2033



State	: Perak
Year	: 2033
Population Density	: 0.37



Year	: 2033
Number of people death	: 137
Number of people birth	: 10.000

Title : Dashboard Design 3

Author : Jui Kai Hang

Date : 15 / 10 / 24

Sheet : 3

OPERATION

- Changing the filter will alter the highlight of the chart.
- Toggle on the specific mark on each graph will display revelant information in tooltips.

DISCUSSION

POSITIVE

- choropleth map clearly desmonstrate the trends of births and deaths across different time
- bubble chart clearly display population density with number of people birth / death with the area of state
- word cloud display the relative number of net population for each state
- word cloud are visually appearing

NEGATIVE

- choropleth map might be challenge when comparing values across maps due to shading or colour scale
- word cloud visually shows the value that only relative to other state
- overlapping bubble making it difficult to distinguish between individual data
- comparing bubbles might be challenging when there are many bubbles of similiar size.

No.: ..... Date: .....

Sheet 4 : Initial Design 3

LAYOUT

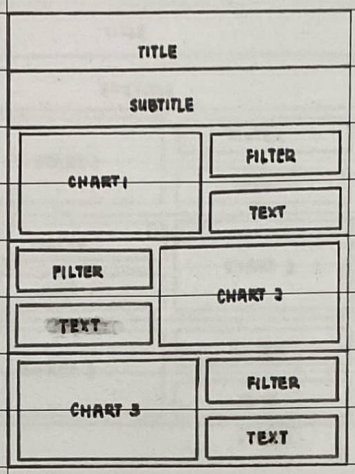


CHART 1

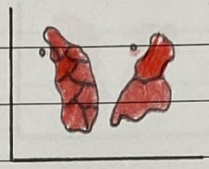


CHART 2

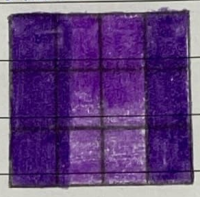
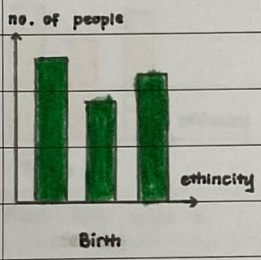
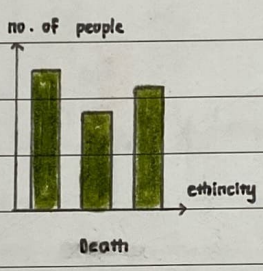
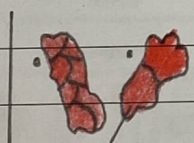


CHART 3



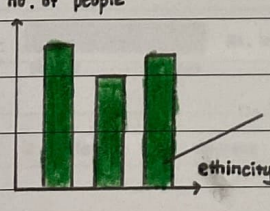


FOCUS



State	: Sabah
Year	: 2023
Net Population	: 78,000

State	: Labuan
Year	: 2023
Category	: Birth
No. of people	: 4,356



Year	: 2023
Total No. of People	: 14,730

TITLE : Dashboard Design 3

AUTHOR : Jui Kai Hang

DATE : 15 / 10 / 24

Sheet : 3

OPERATION

- Changing the filter with alter the highlight section of the chart
- Toggle on the specific mark on each chart will display revelant information in tooltip

DISCUSSION

POSITIVE

- choropleth map clearly desmonstrate the trends of births and deaths across different time
- the bar chart display clearly the number of people for death and birth by ethincity , while easy compare values
- heatmaps can show similarities , making it easier to identify related categories or patterns

NEGATIVE

- choropleth map might be challenge when comparing values across map due to shading or colour scale
- heatmap might hard to distinguish between shades , when the colour is too stuble .
- heatmap don't provide exact numerical values , so intepreting precise data points can be challenging .

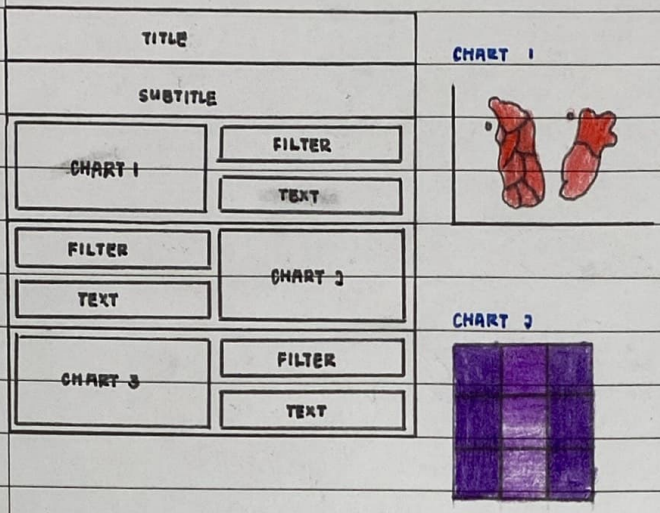
Subject:.....

No:.....

Date:

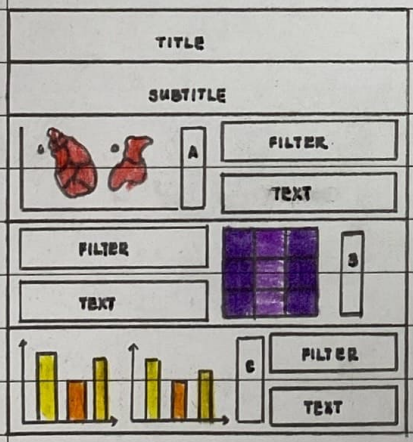
Sheet 5 : Realisation

LAYOUT



* taken from sheet 4

FOCUS



A : Net population

10,000 80,000

B : No. of people

10,000 40,000

C : Malay Chinese Indian

TITLE : Dashboard Layout

AUTHOR : Jui Kai Hang

DATE : 13 / 10 / 24

SHEET : 5

OPERATION

- select the state will show the visualisation of respective state information

- select the mark will visualise data for the specific number of people birth and deaths based on gender, state and ethincity.

- text block conclude the finding in visualisation (exp : states with highest net population)

DETAIL

1. Choropeth map desmonstrate the trends of births and deaths across different states and time

2. Bar chart can use to compare the number of births and deaths with gender or ethincity

3. Heatmap can use to identify related categories or patterns of birth of death in Malaysia

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