1. IDEAS

Cholera / Typhoid / Hep A Rate

①

②

↓ % houses with clean water

③
% houses with clean water → state
Disease incidence rate

④ Cost & Revenue of water treatment (plants)
 → state
% houses w/ clean water

⑤ Water Treatment plant expense

state
← % houses with clean water

⑥ Incidence Rate

• Cholera
Typhoid
Hep A
→ Year

⑦ Expendature @ water treatment plants
 → Year

⑧ Disease incidence rate

% house w/ clean water
# water complaint
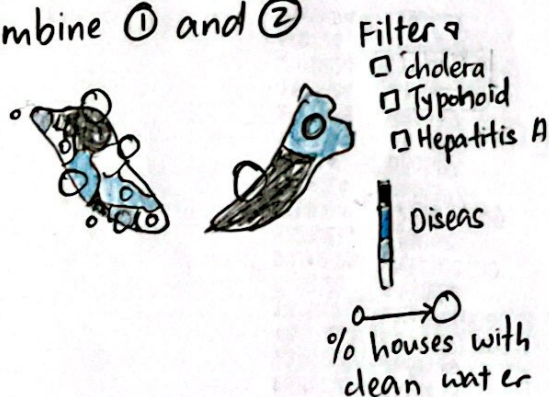→ # water treatment plants (normalized)

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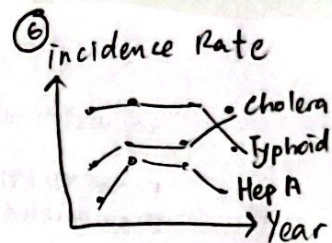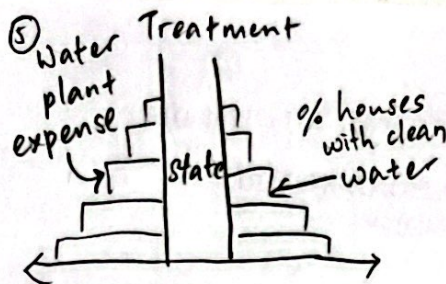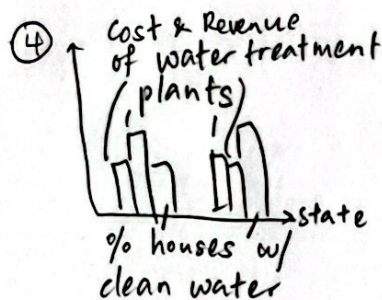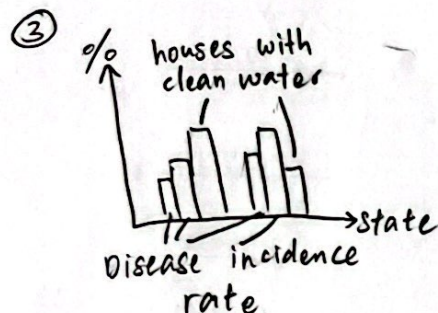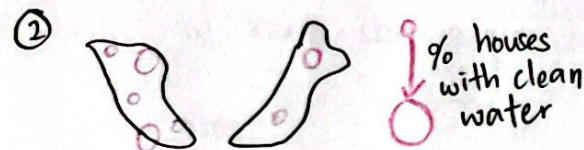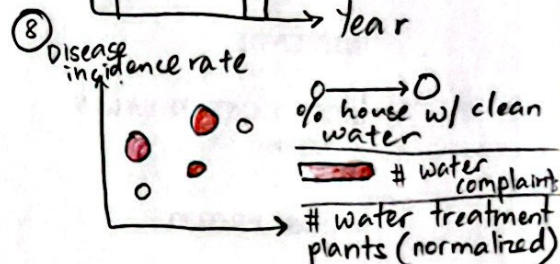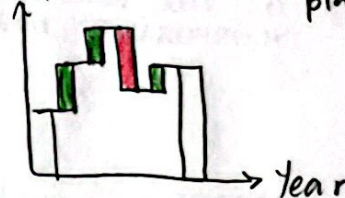
2. Filter

- there are no duplications
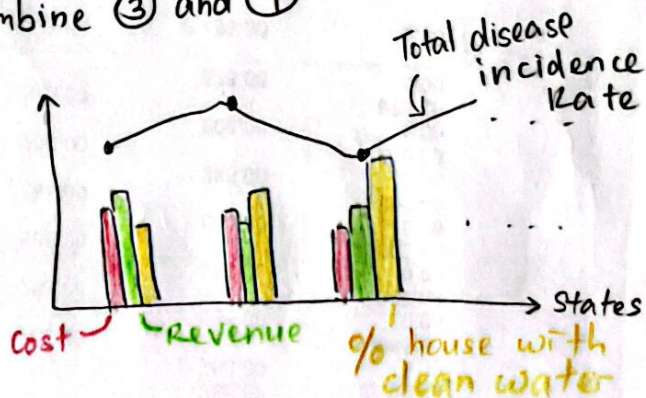- ⑦ is unsuitable as there is not enough data

3. Categorize

① and ② are similar (Both maps)
③ and ④ are similar (Both Bar Charts)
④ and ⑤ Both compare the same fields.
⑧ shows the fields in ③ and more ☺

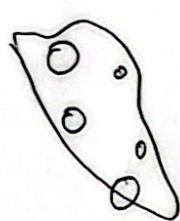---

4. Combine & Refine

- Combine ① and ②

Filter
☐ cholera
☐ Typohoid
☐ Hepatitis A

Diseas

→ % houses with clean water

- Combine ③ and ④

Total disease incidence Rate

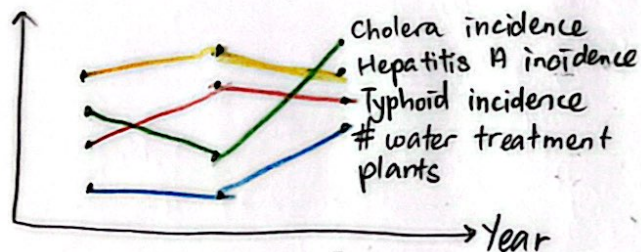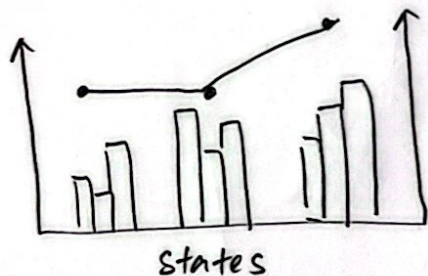Cost — Revenue % house with clean water → States

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5. Doues this satisfy the Why?

Title : Sheet 1
Date : 1/10/2024
Author : Alicia Chong Pei Qi
ID : 33412804
Version : 1

Layout

☐ Cholera
☑ Typhoid
☐ Hepatitis A

⬛▭▬ Disease

o→O % houses with clean water.

states

Cholera incidence
Hepatitis A incidence
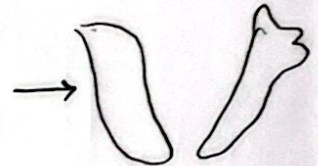Typhoid incidence
water treatment plants

→Year

Focus

Johor
cholera incidence : ____
Hep A incidence : ____
Typhoid incidence : ____
% houses with clean water : ____

☑ Cholera
☐ Typhoid
☐ Hep A →

Operations

1. Hover over a state To view more details on disease incidence rates and more.

2. Tick disease checkbox to show incidence rate of the disease in the map.

Discussion

🙂 · interactive
· shows relationship between all fields
· shows national summary of fields (chart 3)

🙁 · Does not show more focus and details on a particular state.
· chart 2 encorporates all fields, overwhelming for viewers, patterns may be hard to observe.
· Chart 3 is boring and does not allow more explorations
· Dashboard lacks storytelling essence.
· Dashboard lacks a purpose.
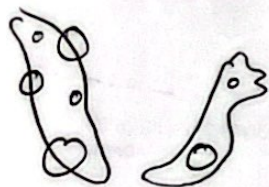· Available data is not enough to make Chart 3.
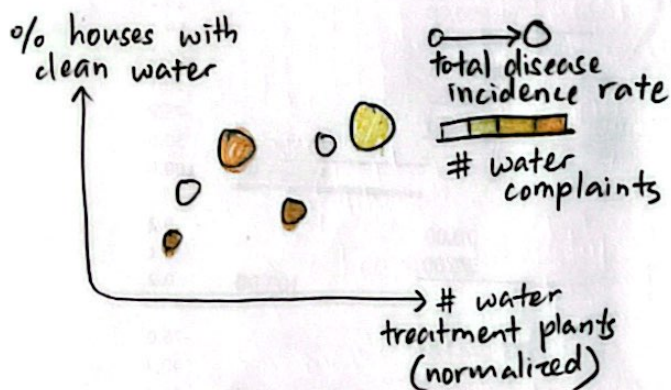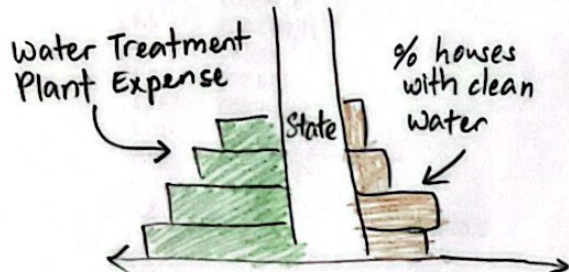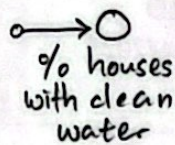
Title : Sheet 2   ID : 33412804.
Date : 01/10/2024
Author : Alicia Chong
          Pei Qi

Layout

☐ Cholera
☐ Typhoid
☐ Hepatitis A

Disease rate

% houses with clean water

Water Treatment Plant Expense

State

% houses with clean water

% houses with clean water

total disease incidence rate

water complaints

water treatment plants (normalized)

Explore States

Facts about state in regards to each Field

Filter ▾

Johor
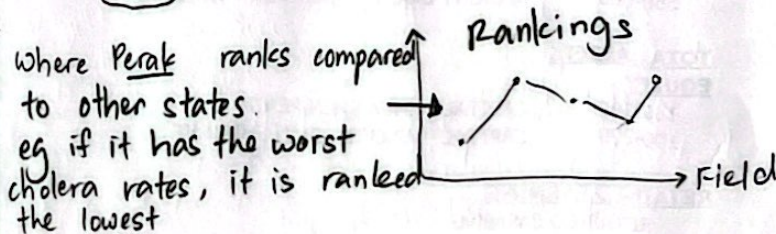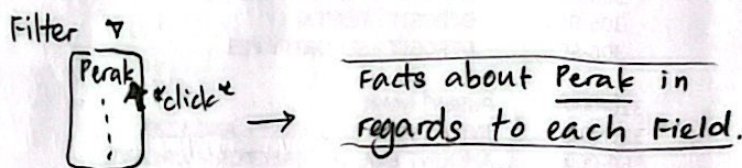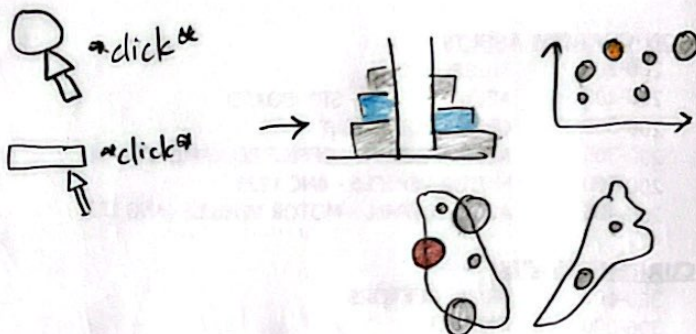Slgr
⋮

14

Rankings

1

Field

Operations

- Hover over a state to show tooltip for more info.
- Click on any mark in charts 1-3 to highlight the state in charts 1-3
- Use filter to select a state demographic to explore in chart 4.

Focus

hover.

Johor
Cholera incidence rate : _____
Typhoid incidence rate : _____
Hepatitis A incidence Rate : _____
% houses with clean water : _____

click

click →

Filter ▾

Perak
⋮
click →

Facts about Perak in regards to each Field.

Where Perak ranks compared to other states.
eg if it has the worst cholera rates, it is ranked the lowest

Rankings

Field

Discussion

☺ · more interactivity
· more nuanced data representation
· Fields broken up into parts, less overwhelm.
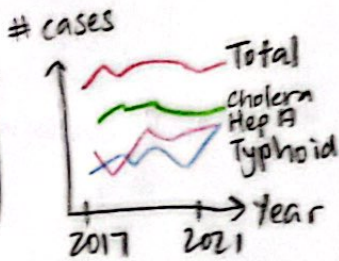
☹ · Still lacks storytelling elements.

Title : Sheet 3
Name : Alicia Chong Pei Qi
ID : 33412804
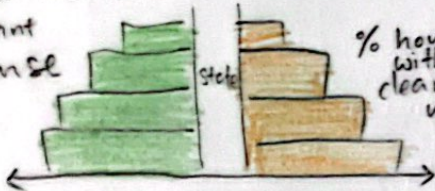Date : 01/10/2024.

Layout

Into the diseases

#cases — Total, cholera, Hep A, Typhoid → Year (2017, 2021)

(not so fun) facts!

☐ cholera
☐ Typhoid
☐ Hepatitis A

Disease Rate

o → O
% houses with clean water

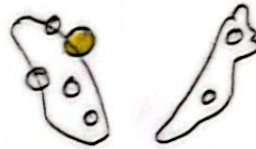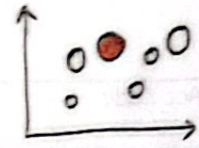water treatment plant expense

State

% houses with clean water

% houses with clean water

o → O
total disease incidence

☐ # water complaints

→ # water treatment plants (normalized

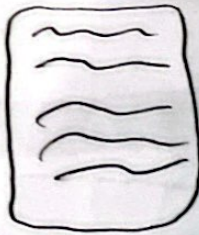## Explore States

○ ○ ○ ○

Filter ▾
State 1
State 2
State 3
⋮

Rankings
→ Field

Title: Sheet 4
Date: 02/10/2024
Author: Alicia Chong Pei Qi
ID: 33412804

Focus

o ↓ Hover

State 1
Field 1: ___
Field 2: ___
Field 3: ___

* click *

→

☐ → info about the diseases, create the start of your narrative

○ ○ ○ ○
→ Data Facts of a state.

Filter ▾
☐ → Filter by state.

Operations

• Hover over a state to show tooltips for info
• Click on any mark on chart 2-4 to highlight state in charts 1-3
• Use filter to select a state demographic to explore.

Discussion

:) • ↑ interactivity
   • ↑ storytelling
   • ↑ nuanced data presentation
   • Fields broken into bitesized parts.

:/ • High complexity for creating
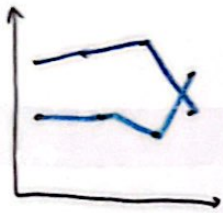   • IDK how to have >1 charts share selected state

Layout

WTP
Expense

State

% houses
clean water

Disease

Age
Groups

Explore states

State ▾

Rankings

Field.

Focus

Disease ▾
Typhoid

State ▾
Selangor

Operations

- Tooltips for All marks.
- Select disease to view in chart 2
- Select state for chart 5

○ ○ ○ ○] Fun Facts about selected state.

Detail

- Software : Vega-lite for charts
  HTML + CSS for web view

- Time estimate : 25 hours.
- IDE : VS code.
- Device computer

Title : Sheet 5
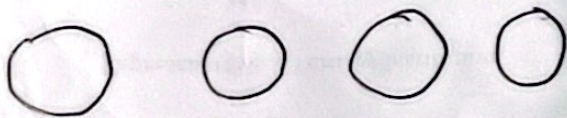Date : 03/10/2024
Author : Alicia Chong Pei Qi
ID : 33412804.