

# Ideas

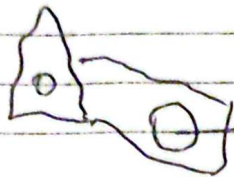
Muhammed Asad

32732449

Sheet 1

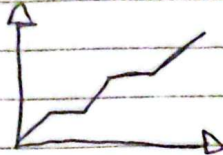
① Choropleth map to show arrivals in each state

② Proportional map to show arrivals in each state

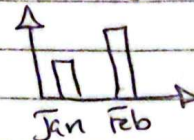


Proportion with circle shape

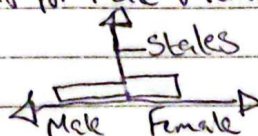
③ Line chart to show arrivals in each month



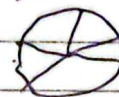
④ Bar chart for arrival in each month with year filter



⑤ Population Pyramid for Male v Female Arrivals.



⑥ Bar chart for total arrivals from each country



⑦ Pie chart for states arrivals

⑧ Stacked bar chart for male vs female

## Filter

① Proportional Map

Filtering by year

② Line Chart

Filter by top 20

③ Bar Chart for countries

④ Population Pyramid Male vs Female

## Categorize

① Categorical

Ideas 2, 6, 5

② Ordinal, Over Years

Ideas 2, 3, 6

③ Quantitative

Ideas, 2, 3, 5, 6

## Combine and Refine

① Trend analysis with interaction of filters

② Combine Ideas 4 and 6 but overall

③ Demographic and state distribution

## Summaries and Questions

o Satisfies info for government such as where more workers might be needed to handle entries

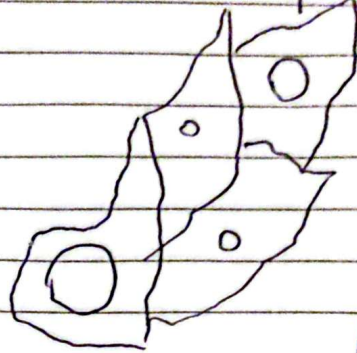
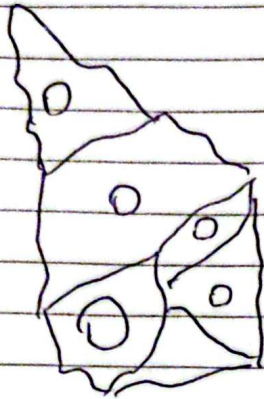
o Policy Making

o Identifying key points and states

o Business Strategy



## Layout



Text explaining insights

## Sheet 2

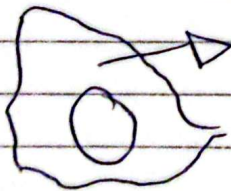
Total Arrivals by State in each year

Muhammed Asad  
Illustrates entries in each state in each year

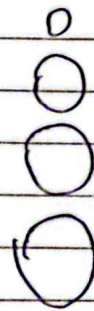
### Operations:

- User can select year
- Data pre-processed
- User can hover state to view values

## Focus



State: Johor  
Arrivals: 292000  
Year: 2020



## Pros:

- Easy to interpret and compare states
- Visual impact with size & proportions

## Filter

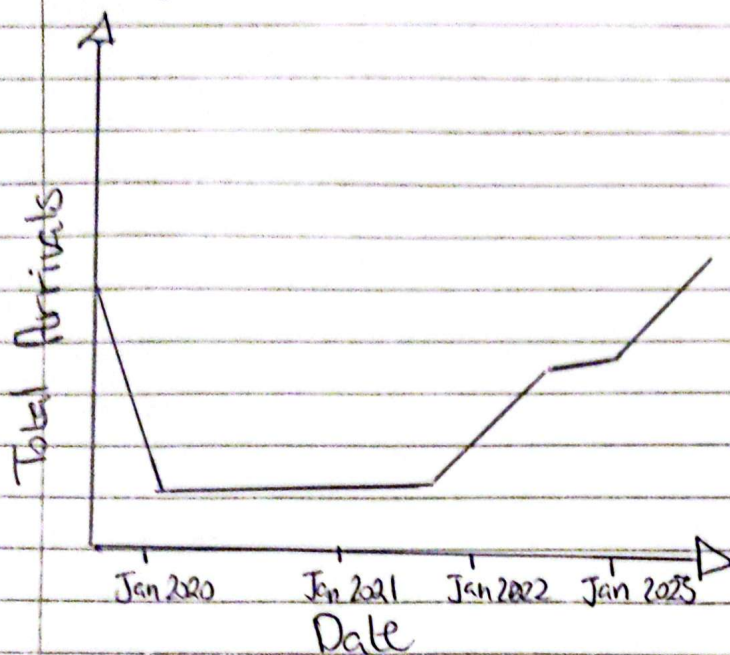
Year: 2020 - 2024

## Cons:

- Cognitive load, viewer might find difficulties in distinguishing close sizes.
- Dependent on accurate scaling



## Layout



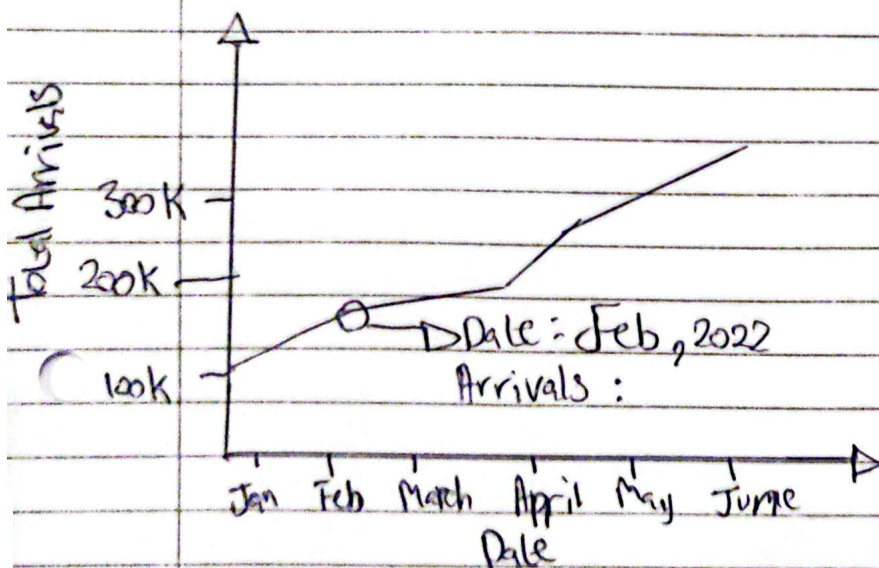
## Sheet 3

Trends in Total Arrivals  
in each month  
Muhammed Ased  
Illustrates total arrivals  
in each month

### Operations

- Data pre-loaded
- User can hover over points for each month's arrivals

## Focus



### Pros

- Trend identification
- Clarity and easy to visualise
- Time Series Visualisation

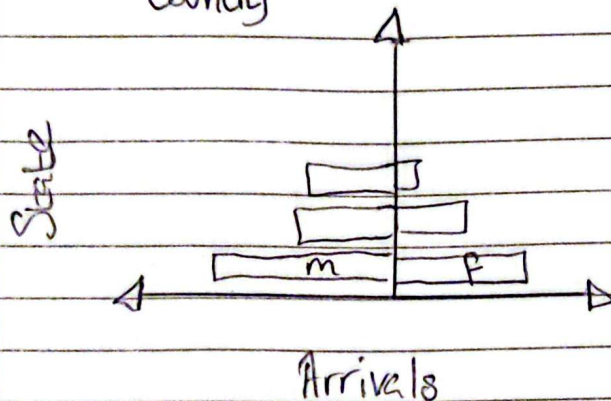
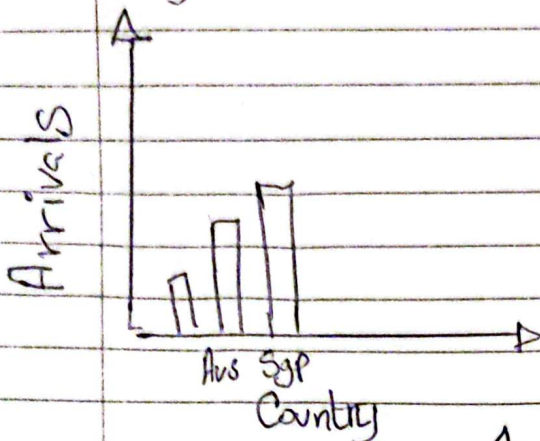
### Cons

- Outliers Impact
- Limited to time data.

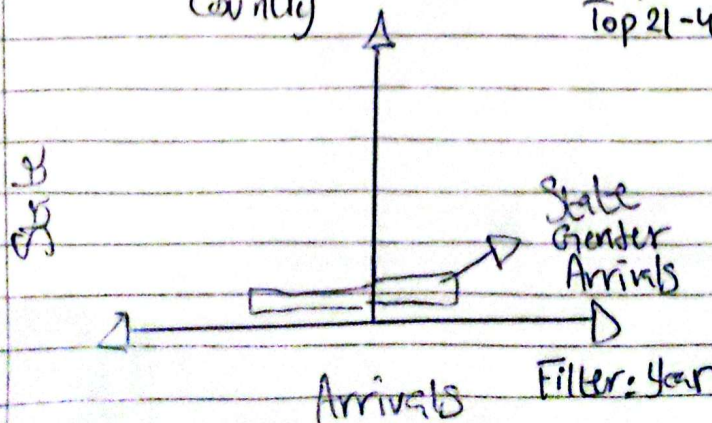
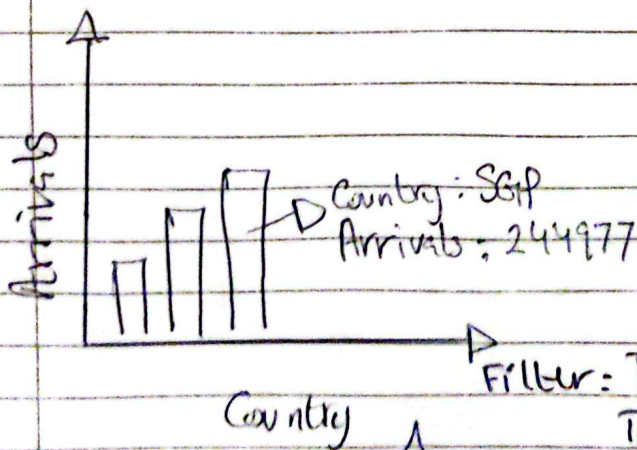
Text about insights



## Layout



## Focus



## Sheet 4

### Top Countries Arrivals and Gender Distribution of Arrivals

Muhammad Asad  
Illustrates top countries  
with arrivals and gender  
distribution

### Operations:

- o Data pre-loaded
- o User can hover over to view values
- o Filter by year
- o Filter by top 20s group of countries

### Pros

- o Simplicity of bar chart
- o Clear comparison
- o Can handle many countries with filter.
- o Highlights dominant trends
- o Accurate Representation

### cons:

- o Bar chart doesn't show trend
- o Space limitation



Subject

No

Date

Layout

Title
Sheet 2
Sheet 3
Sheet 4

Sheet 5

Arrivals in  
Malaysia  
Muhammad Asad  
Dashboard

Operations

o year filter  
o top countries filter  
o hover to view tooltips

Focus

Title
Sheet 2
Insights Text
Sheet 3
Insights Text
Sheet 4
Insights Text

Discussion:

- o 7 days to make visualisation
- o Dataset will be broken down for each sheet
- o Width and heights of sheets might change