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### **Content**

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## Content

### Software/Tools needed:

- MS Visual Studio Code
- IBM Watson Studio
- IBM Cognos Analytics
- Terminal

### Libraries needed:

- Pandas
- Matplotlib
- Folium
- Plotly express
- Dash (html, dcc)
- \*Seaborn
- \*NumPy
- \*BeautifulSoup (for web scraping)

### Topic Considered:

- Johor Population (total, male vs female, newborn by years, etc.)
- OR
- Malaysia Population/Crime Record/Immigrants etc.

### FINAL TOPIC: Newborn Trend in Malaysia (comparing states)

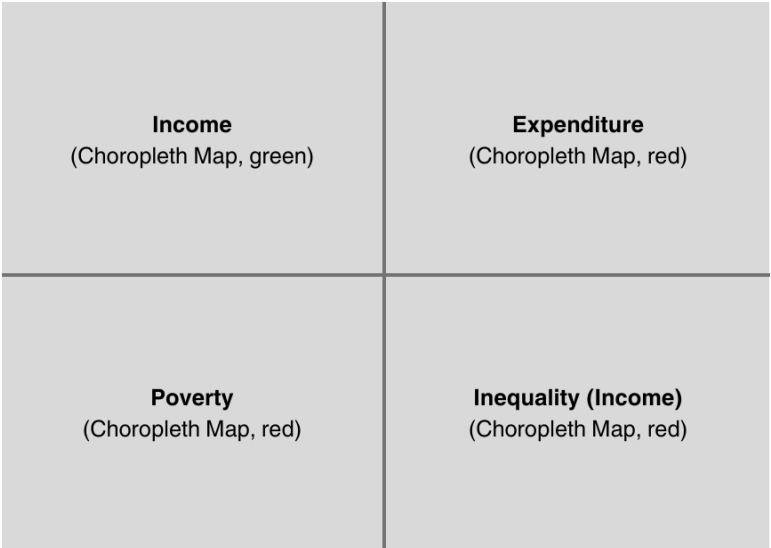
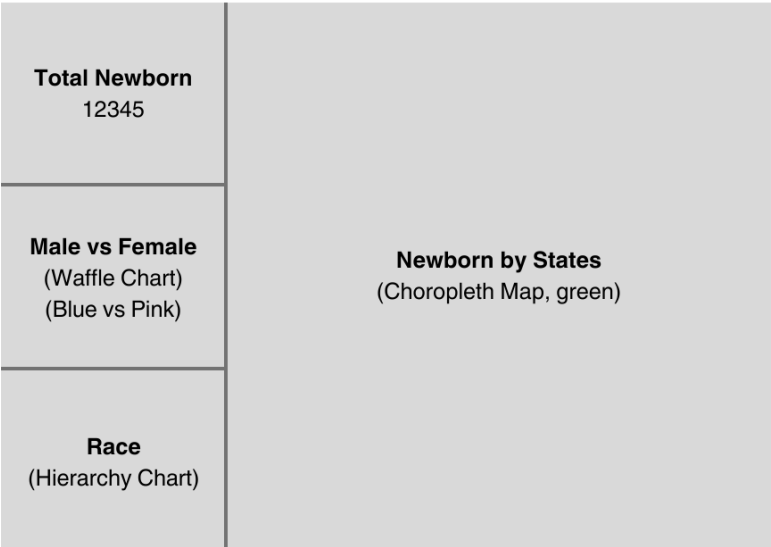
### Layout concept draft:

- Other charts: choropleth map of total population/new born in year/total
- Can use choropleth map to compare correlation of different factors with newborn in the different states

Newborn Trend in Malaysia



Selected Year



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- diagnose and explain the situation from the perspective of social and economy, e.g.

- Income/annual salary
- GDP
- Living cost
- Inflation
- Unemployment rate
- Tax
- Marriage percentage for age 25 - 40/by race
- Health indices like BMI
- Poverty
- Income inequality
- Etc.

- Use GitHub to host the project

### Potential Problem(s):

- hosting issue (if cannot host a website then try on Cognos Analytics to create dashboard)
- unable to access datasets

### Datasets required:

- Population by states
- Newborn/birth by year, states, sex and ethnicity
- income/annual salary
- GDP
- living cost
- inflation
- unemployment rate
- tax
- Poverty
- Income inequality
- marriage percentage for age 25 - 40/by race
- health indices like BMI

### Datasets available on OpenDOSM:

Population	by year, state, age, sex, ethnicity
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Birth	by year, state, sex, ethnicity
Income	mean and median by year, state
Expenditure	income (mean & median), expenditure and poverty by year, state
Poverty	by year, state
Income inequality	by year, state
GDP	
Consumer prices	

## Possible Output Files:

- HTML file for the dashboard
- Excel worksheet for data tables, analysis, visuals
- Python notebook file for data wrangling, analysis, visuals
- Python coding file for dashboard