Week 9 Homework

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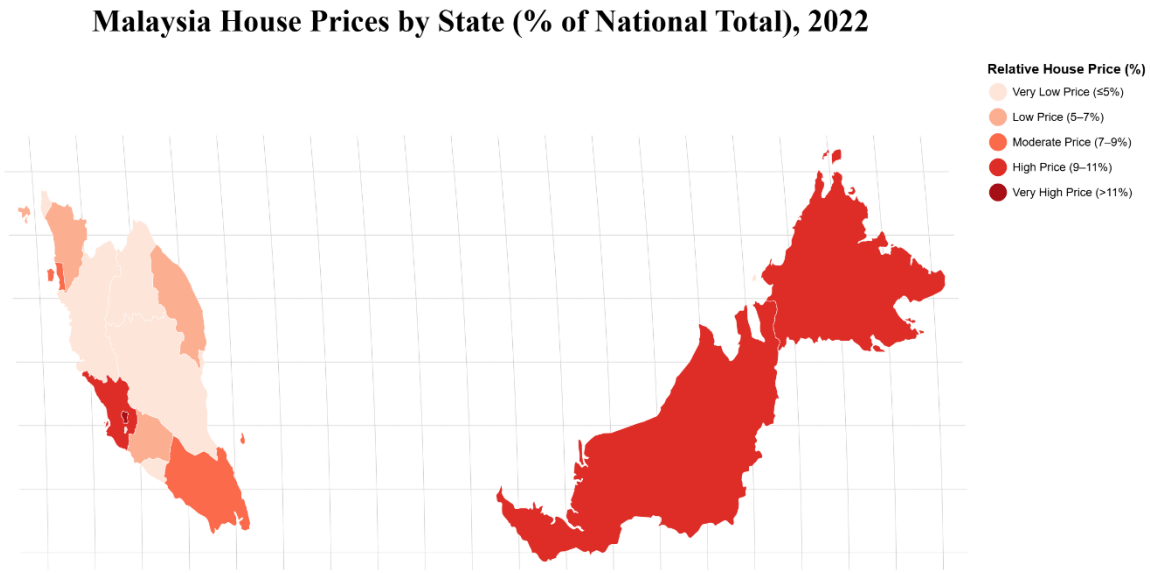
URL for HTML (Map): https://gurgobindsingh.github.io/FIT3179_Homework9/

GitHub Link: https://github.com/GurgobindSingh/FIT3179_Homework9.git

Map:



Domain:

The visualisation focuses on house prices across Malaysian states in 2022, showing the relative contribution of each state's house prices to the national total.

Visualised Dataset:

- Source:
    - National Property Information Centre: https://napic2.jpph.gov.my/en/data-visualization?category=18&id=64
    - OpenDOSM: https://open.dosm.gov.my/data-catalogue/hh_income_state

- Author of datasets: National Property Information Centre, Department of Statistics Malaysia
- Author of map: Gurgobind Singh
- Attribute Types: State (categorical nominal), Relative House Price % (quantitative)

Data Transformation:

The house prices were normalized to obtain the Relative House Price (%) for each state. This expresses each state's house price as a percentage of the total house price across all states. The formula used is:

$$Relative\ House\ Price\ (\%) = \frac{House\ Price\ of\ a\ State}{Total\ House\ Price\ of\ all\ State} \times\ 100$$

Justification:

A choropleth map was chosen because it effectively communicates relative values per geographic area. Moreover, each state is color-coded based on its percentage contribution to the national total, which allows viewers to quickly identify high-price and low-price regions. A proportional symbol map or dot map was not used because these methods are less effective at representing relative percentages by area and may clutter smaller states.