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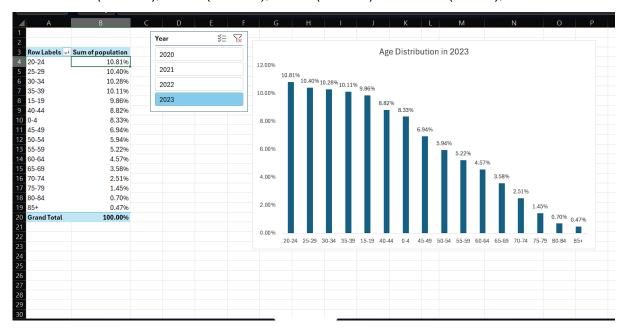
• The data is taken from Population Table: Administrative Districts. (https://open.dosm.gov.my/data-catalogue/population_district)

• The variable and definition in the table are as follows:

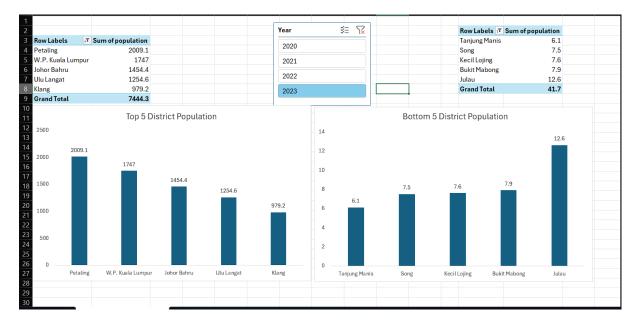
| Name in dataset | Variable | Definition |
|-------------------------|-------------------|---|
| date (Date) | Date | The date in YYYY-MM-DD |
| | | format, with MM-DD set to |
| | | 01-01 as this is annual |
| | | data |
| state (Categorical) | State | One of 16 states |
| district (Categorical) | District | One of 160 administrative |
| | | districts, including the 4 |
| | | states (Perlis and the 3 |
| | | Federal Territories) which |
| (2) | | do not have subdivisions |
| sex (Categorical) | Sex | Either both sexes ('both'), |
| | | male ('male') or female |
| (0.1) | | ('female') |
| age (Categorical) | Age Group | Either all age groups |
| | | ('overall') or five-year age |
| | | groups e.g. 0-4, 5-9, 10- |
| | | 14, etc. 85+ is the oldest |
| ethnicity (Categorical) | Ethnicity | category. All ethnic groups ('overall'), |
| Categorical) | Ethilotty | Malay ('bumi_malay'), |
| | | other Bumiputera |
| | | ('bumi other'), Chinese |
| | | ('chinese'), Indian |
| | | ('indian'), other citizens |
| | | ('other citizen'), or non- |
| | | citizen residents |
| | | ('other noncitizen'). |
| population (Float) | Population ('000) | Thousands of people ('000 |
| , , | | people) |

- Using Power Query in Excel to do data cleaning, name of the worksheet is Table 1,
 - o Rename the 'date' column to 'Year' and show only the year value (2020,2021,2022,2023),
 - o renaming 'population' column to 'population ('000)', which is population of 1000 people,
 - o remove unneeded values in the age column ('overall' and 'date' value) and 'overall' value in 'ethnicity' column.
 - o Remove 'both' value in 'sex' column.
- Using Pivot Table to analyse the population by district (as of 2023);
 - o Theres a 2.49% increase in population when compared to 2022 population.

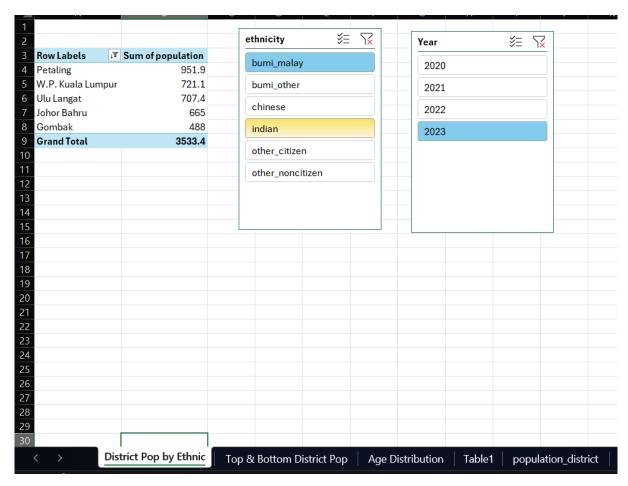
For the population age group distribution, age 20-24 represents most of the population with 10.81% (3035.8 of 1000 people), followed by age 25-29 (10.40%), 30-34 (10.28%), 35-39 (10.11%) and 15-19 (9.86%),



 Top 5 district with the highest population of 1000 people are Petaling with 2009.1, W.P. Kuala Lumpur with 1747, Johor Bahru (1454.4), Ulu Langat (1254.6) and Klang (979.2),



Bottom 5 district with the lowest population of 1000 people, 4 of them are in Sarawak, which is Tanjung Manis (6.1), Song (7.5), Bukit Mabong (7.9) and Julau (12.6), and in Kecil Lojing, Kelantan with 7.6, When sorting through the district with the largest population of certain ethnicity, below are the results:



- Bumi_malay Petaling (951.9), W.P. Kuala Lumpur (721.1), Ulu Langat (707.4), Johor Bahru (665), Gombak (488),
- Bumi_other Kota Kinabalu (227), Sandakan (165.8), Tawau (162.2),
 Kuching (132.3), Lahad Datu (103.1)
- Chinese Petaling (651.6), W.P. Kuala Lumpur (636.4), Ulu Langat (309), Johor Bahru (503.6), Timur Laut (282.7),
- Indian Petaling (181.7), Klang (163.4), W.P.Kuala Lumpur (154.3),
 Johor Bahru (118.8), Kinta (94.2),
- Other_citizen Petaling (14.1), Gombak(12.9), W.P. Kuala Lumpur(10.9), Johor Bahru(9.6), Tawau(8.7),
- Other_noncitizen W.P. Kuala Lumpur (206.9), Petaling (190.7),
 Sandakan (141), Johor Bahru (130.9), Ulu Langat (125.1).

You can view the Excel File on my Github page.

https://github.com/MHafizAzizi/DOSM-MyStep-41-Preliminary-Test