

TITLE:

**Population by State, Administrative District and Sex from 2016 to 2018**

The relevant authority will collect the data about states, administrative districts, and sex every three years. This will easily help them to plan and execute something based on the data collected. This data is collected from every administrative districts of the states.

The data set included:

(i) States:

- |                    |                       |
|--------------------|-----------------------|
| a. Johor           | i. Sabah              |
| b. Kedah           | j. Sarawak            |
| c. Kelantan        | k. Terengganu         |
| d. Melaka          | l. Perlis             |
| e. Negeri Sembilan | m. Malaysia           |
| f. Pahang          | n. W. P. Kuala Lumpur |
| g. Perak           | o. W. P. Labuan       |
| h. Pulau Pinang    | p. W. P. Putrajaya    |

(ii) Administrative Districts

- |                |                  |
|----------------|------------------|
| a. Batu Pahat  | f. Muar          |
| b. Johor Bharu | g. Pontian       |
| c. Kluang      | h. Segamat       |
| d. Kota Tinggi | i. Kulai Tangkak |
| e. Mersing     | j. ....          |

(iii) Sex

- a. Male
- b. Female

(iv) Years

- a. 2016
- b. 2017
- c. 2018

(v) Population ('000)

Based on the "Dashboard 1: Population by State, Administrative District, and Sex (2016 - 2018)", there are 3 types of visualizations (Gantt Chart, Map, Treemap). The highest of population in those states is in Sabah with 11560 ('000) people while the lowest population is in Melaka with 2764 ('000) people. Moreover, the highest population by administrative district is in Johor Bharu about 4675 ('000) people. In contrast, the lowest population is in Pakan.

Based on the "Dashboard 2: Population by State, Administrative District, and Sex (2016 - 2018)", there are stacked bar chart, packed bubbles, and circle view. The highest of female and male population by state is located at Sabah with 5495 ('000) people and 6065 ('000) people, respectively meanwhile the lowest of female and male population by state located at Melaka with 1361 ('000) people and 1403 ('000) people, respectively.

Based on the "Dashboard 3: Population by State, Administrative District, and Sex (2016 - 2018)", there are 3 types of visualization (boxplot, pie chart and side-by-side bar chart). The distribution probably is left skewed or positive skewed. Johor Bharu has the highest of population, but it is an outlier. Based on the pie chart percentage of population by administrative district in Pahang, the highest percentage population is recorded in Kuantan with 30.67% while Cameron Highlands recorded the lowest percentage of population. Due to the side-by-side bar chart, the highest female population by administrative district in Kedah, Kelantan and Negeri Sembilan are 746.9 at Kuala Muda, 879 at Kota Bharu and 883.2 at Seremban, respectively.

In summary, Sabah has recorded the highest population in Malaysia with 11560 ('000) people while the lowest population located at Melaka with 2764 ('000) people only.