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CLASS : BE COMPS A
BATCH : ADV BATCH F

ADV EXPERIMENT 2

DATASET :

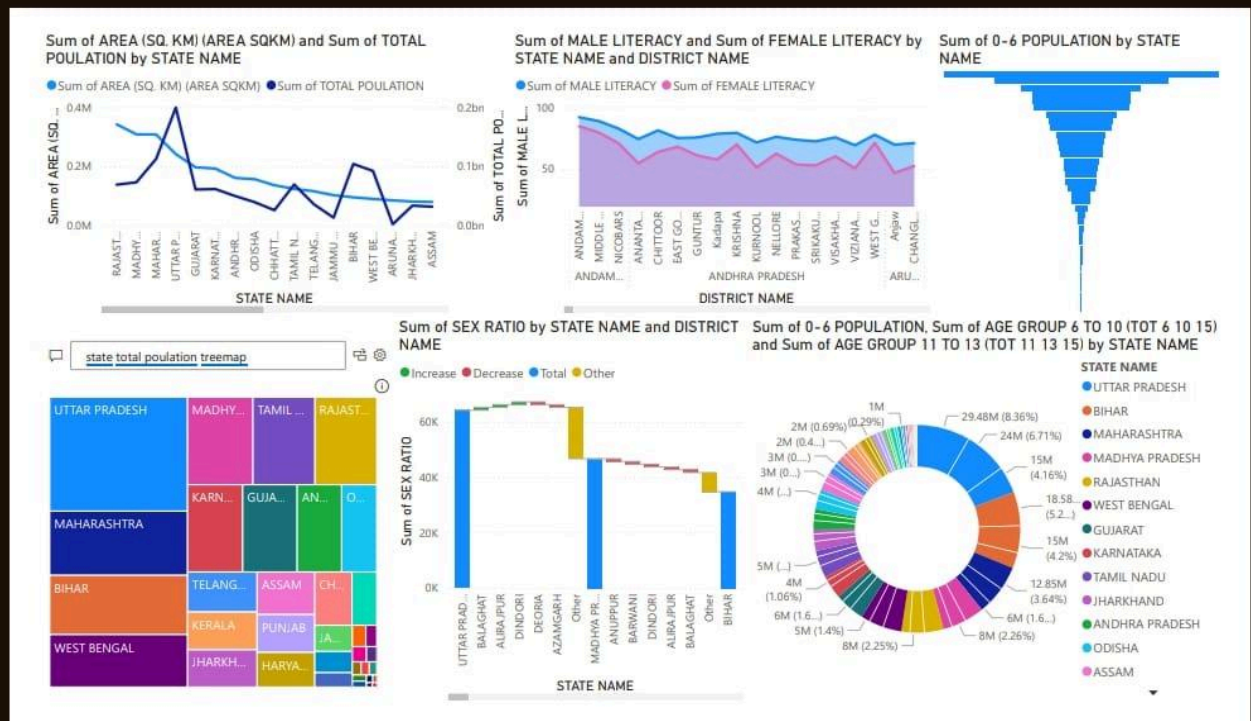
Socio-economic dataset - <https://www.kaggle.com/datasets/webaccess/all-census-data>

DATASET DESCRIPTION :

Dataset Description- 2011 India census data. Includes population/demographic data, housing data and socio-economic data for each state, district wise. The fields are as follows:

- State
- District
- Total population
- Percentage urban population
- Growth rate
- Sex ratio
- Percentage SC/ST population
- Overall literacy rate
- Female and male literacy rate
- Area
- Population by age groups

REPORT :



Q. What inference can be drawn from the line graph depicting the area of each state and its population ?

Ans. It can be seen that Uttar Pradesh, Bihar and West Bengal have the highest population to area ratio with Uttar Pradesh having the highest population of all regions. Rajasthan, Madhya Pradesh and Maharashtra are the states with highest areas.

Q. What does the area chart depict ?

Ans. The area chart depicts the comparison of male literacy percentage and female literacy percentage for all states and each of their districts. It is observed that male literacy rate is higher than the female literacy rate for almost all regions except a few districts in Meghalaya.

Q. What can be interpreted from the funnel chart ?

Ans. The funnel chart shows the population of 0 to 6 year olds for each state. Uttar Pradesh tops this chart followed by Bihar, Maharashtra and Madhya Pradesh. States like Sikkim and Goa as well as Union territories are at the bottom of this chart.

Q. What inference can be drawn from the tree map ?

Ans. The tree map shows the contribution of each state to the total population of the country. Uttar Pradesh, Maharashtra, Bihar and West Bengal are the most populated states

Q. What does the waterfall chart depict ?

Ans. The waterfall chart shows the comparison of sex ratio throughout all of the states and their districts and the interrelation between the ratios of all of them.

Q. What can be interpreted from the donut chart ?

Ans. The donut chart shows the population of age groups - 0-6, 7-10 and 11-15. It can be seen that once again Uttar Pradesh, Bihar and Maharashtra contribute the highest amount of young population to the nation.

CONCLUSION :

- By using charts and graphs in PowerBi, I was able to make many interpretations based on visualization of data in many aspects.
- We can say that Rajasthan, Madhya Pradesh and Maharashtra are three of the biggest states in terms of area whereas Uttar Pradesh, Maharashtra and Bihar are the states with highest population.
- Male population is found to be more literate as compared to the female population within the country.