Name:Aditya khuman
UID: 2021300061
Experiment no.: 10
Aim: Design Big Data Dashboards using Tableau on the datasets - Education sector

Basic District Information

- **STATCD, DISTCD**: Codes for the state and district, respectively, used to uniquely identify each district.
- **STATNAME, DISTNAME**: Names of the state ("Jammu & Kashmir") and the district, providing a geographic reference for each row.

Administrative Structure

- **DISTRICTS, BLOCKS, VILLAGES, CLUSTERS**: These columns show the structure of the region, including the number of districts, blocks, villages, and educational clusters within each district. This information helps understand the regional administrative and educational segmentation.

Population Statistics

- **TOTPOPULAT**: Total population in each district, showing the population size for comparative and analytical purposes.
- **P_URB_POP**: Percentage of the population in urban areas, highlighting the urbanization rate.
- **POPULATION_0_6**: Population of children aged 0-6, used for early childhood population analysis.
- **GROWTHRATE**: Population growth rate, giving insights into the population dynamics of each district.
- **SEXRATIO**: The gender ratio, calculated as the number of females per 1,000 males, which reflects gender distribution within the population.

Social Demographics

- **P_SC_POP, P_ST_POP**: Percentage of the Scheduled Caste (SC) and Scheduled Tribe (ST) populations, respectively, to indicate the proportion of these groups in each district.
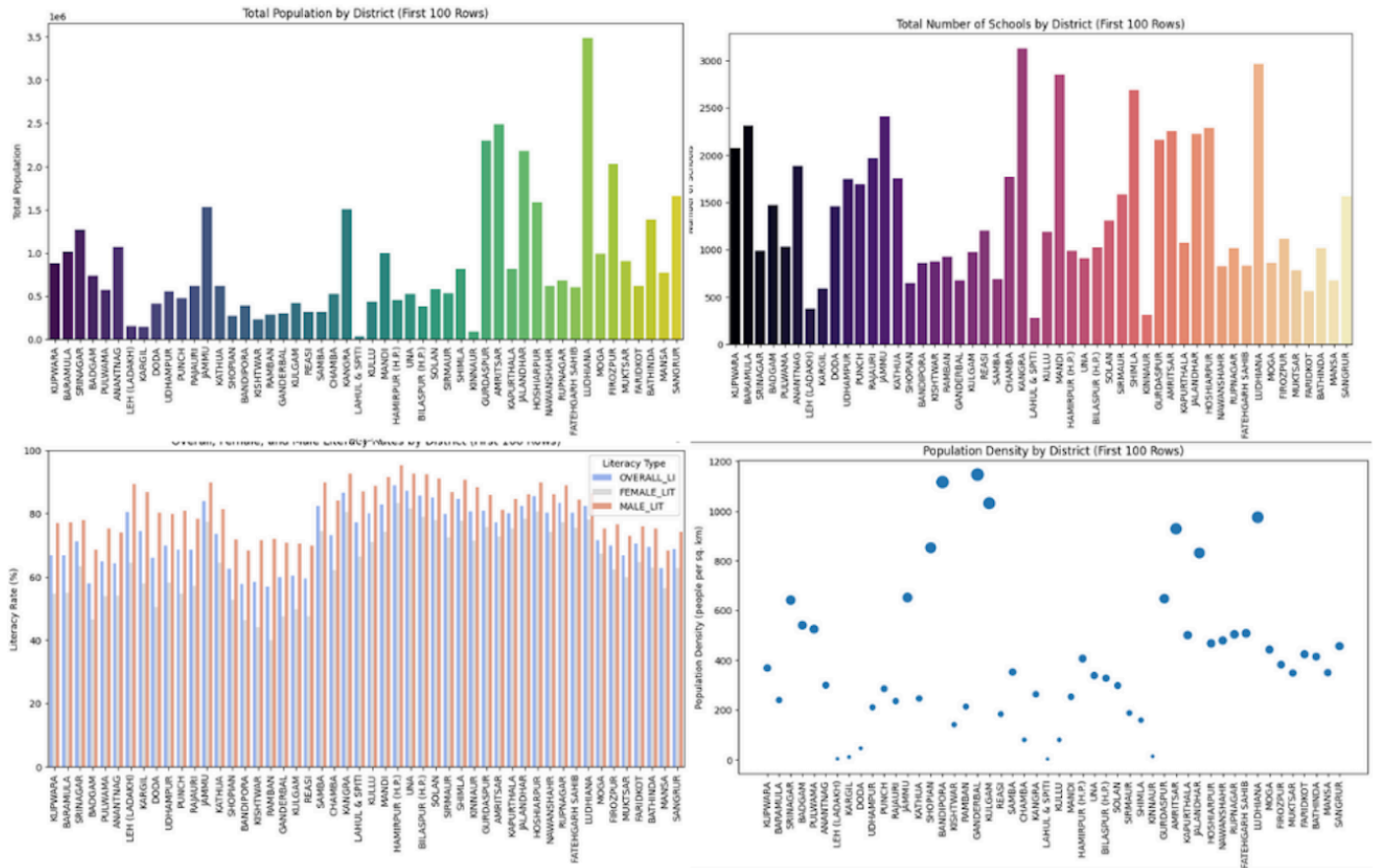
Literacy Rates

- **OVERALL_LI, FEMALE_LIT, MALE_LIT**: Overall, female, and male literacy rates for each district. These columns are essential indicators of educational achievement and gender disparities in literacy.

Geographic and Population Density

- **AREA_SQKM**: The area of each district in square kilometers, which helps in calculating population density when combined with the total population.
- **Population Density (calculated)**: Not directly in the dataset but derivable by dividing total population by area, representing people per square kilometer in each district.

School Data

- **TOT_6_10_15, TOT_11_13_15**: These values likely represent student enrollment numbers in different age groups.
- **SCH1 to SCH9**: Different categories of schools in the district, possibly representing various levels or types of schools.
- **SCH1G to SCH9G**: These columns might represent the number of schools with specific facilities or educational levels. Summing these school counts helps understand the availability and distribution of educational infrastructure.

Conclusion

visualizations to analyze socio-economic and educational indicators for Jammu and Kashmir's districts. It reveals population distribution, literacy rates (overall, male, and female), gender ratios vs. growth rates, school availability, and population density. These insights highlight regional disparities in literacy and education, gender demographics, and population density, aiding in resource planning and policy decisions.