**RUSSIAN DEMOGRAPHICS**

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**PROJECT :**

**Russian Demography (1990-2017) Dataset. It contains demographic features like natural population growth, birth rate, population, etc.**

**Content**

**Dataset has 2380 rows and 7 columns. Keys for columns:**

**"year" - year (1990-2017)**

**"region" - name of a federal subject of Russia. It could be oblast, republic, krai, autonomous okrug, federal city and a single autonomous oblast**

**"npg" - natural population growth by 1000 people. Calculating as the difference between birth rate and death rate**

**"birth\_rate" - number of births by 1000 people**

**"death\_rate" - number of deaths by 1000 people**

**"migratory\_growth" - migratory population growth by 1000 people**

**"population" - calculating according to last census**

**Research questions :**

1. **What is the overall trend russian population ?**
2. **which region is trending positive with respect to npg?**
3. **which region is trending negative with respect to npg?**
4. **How birth rate, death rate and migration impacts npg?**

**Datasets :**

**russian\_demography.csv**

**Rough breakdown of task**

**1) Import data into pandas**

**2) create dataframe for npg based on region**

**3) create dataframe for birthrate based on region group by year**

**4) create dataframe for deathrate based on region group by year**

**5) create dataframe for migration based on region group by year**

**6) create dataframe for total population of a region by year using functions**

**6) Create a bar graph using matplotlib for npg based on region and year**

**7) Create a pie chart using matplotlib for birthrate based on region and year**

**8) Create a pie chart using matplotlib for deathrate based on region and year**

**9) Create a pie chart using matplotlib for migration growth based on region and year**

**10)create a bar graph using matplotlib for total population based on year and region**

**11)create a bar graph for minimum population based on a year and region**