

World Population Forecast (2030–2040)

– Gender Distribution Dashboard

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1. Project Objective

The objective of this project is to explore **world population projections for 2030–2040** using Power BI. The focus is on understanding how male and female populations differ across countries and identifying extremes in population distribution.

The analysis answers four classroom questions:

1. Which countries have the **highest male population**?
 2. What is the **difference between male and female population** in top countries?
 3. Which countries show the **highest total population**?
 4. Which countries have the **lowest female population**?
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2. Dataset Description

The dataset represents **projected population data (2030–2040)** with the following fields:

- **Location** – Country/Region name
- **Year** – Projection year
- **PopMale** – Male population
- **PopFemale** – Female population

Note: The dataset was used as-is without preprocessing or cleaning.

3. Approach

- Imported the dataset into Power BI.
- Created visuals directly using the provided fields.
- Used **bar charts, donut chart, and clustered column chart** to answer each classroom question.

4. Visualizations & Answers

1. Highest Male Population (Bar Chart)

- India and China are projected to have the largest male populations, followed by USA, Indonesia, and Nigeria.

2. Difference in Male and Female Population (Clustered Column Chart)

- A clear gender gap exists in India and China with higher male counts.
- USA, Indonesia, and Nigeria have smaller gaps.

3. Highest Total Population (Donut Chart)

- Tonga, Grenada, Saint Vincent & the Grenadines, and Aruba are shown among the top in the dataset.

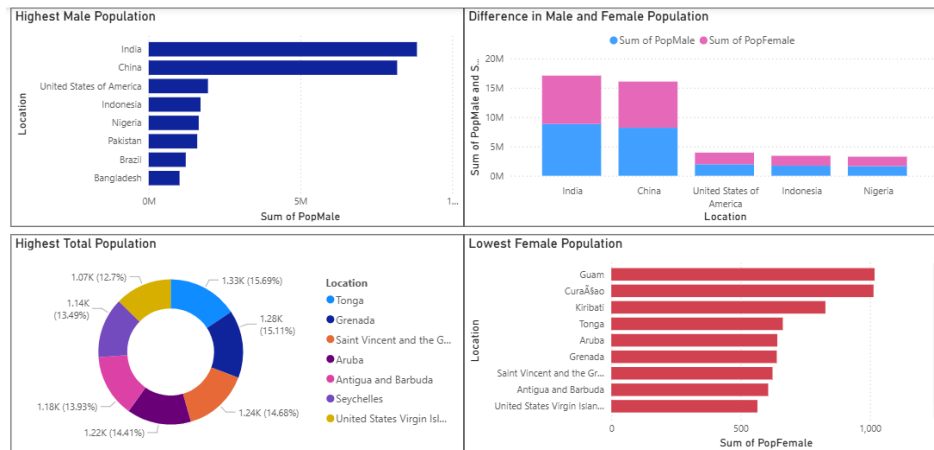
4. Lowest Female Population (Bar Chart)

- Guam, Curaçao, and Kiribati show the lowest female population values.
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5. Insights

- India and China will continue to dominate global male population counts.
- Gender differences are projected to be largest in Asia's most populous countries.
- Smaller nations appear prominently due to dataset scale, not necessarily real global share.
- Certain island nations (e.g., Guam, Curaçao) are at the lowest female population levels.

6. Dashboard Snapshot



7. Conclusion

This Power BI dashboard successfully answers the **four classroom questions** based on population projection data. While no preprocessing or cleaning was done, the dataset still provides valuable insights into demographic patterns between 2030 and 2040.
