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Aim: Design Interactive Dashboards and Storytelling using using Power BI / Power BI / R / Python / D3.js on the dataset - Animal / Wildlife / Marine

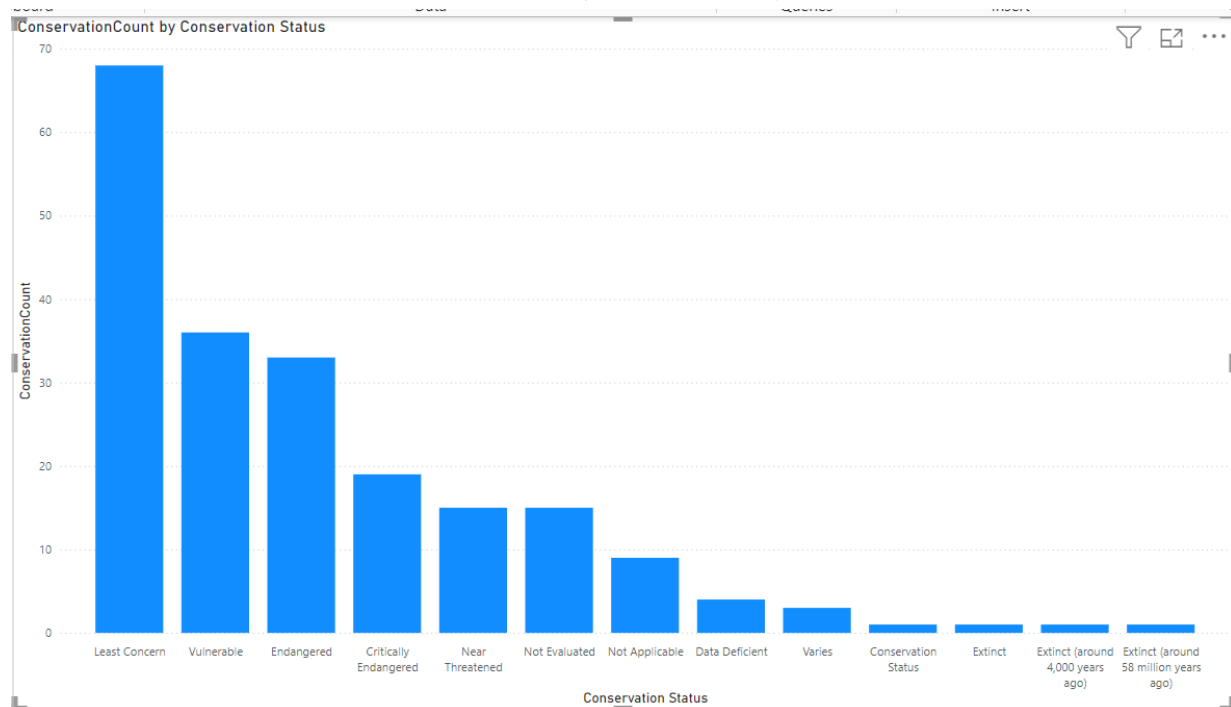
- Basic - Bar chart, Pie chart, Histogram, Timeline chart, Scatter plot, Bubble plot, Advanced - Word chart, Box and whisker plot, Violin plot, Regression plot (linear and nonlinear), 3D chart, Jitter.
- Write observations from each chart.

Dataset used:

Animal dataset -

<https://www.kaggle.com/datasets/iamsouravbanerjee/animal-information-dataset>

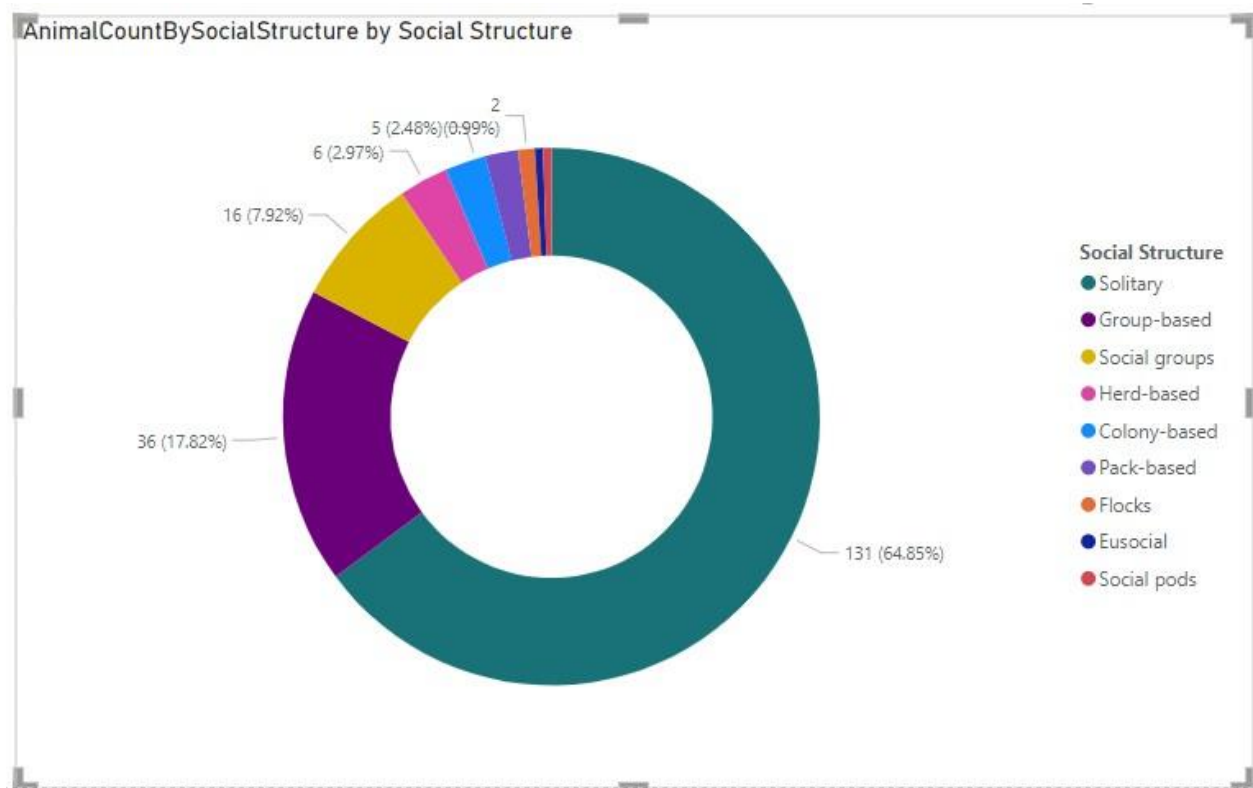
1. ConservationCount = COUNTROWS(AnimalDataset)



Observations:

- "Critically Endangered" species have a notable count, suggesting immediate attention may be required for these species.
- Several categories such as "Extinct" and "Data Deficient" have very low counts, indicating fewer species in these categories.

2. `AnimalCountBySocialStructure = COUNTROWS('Animal Dataset')`

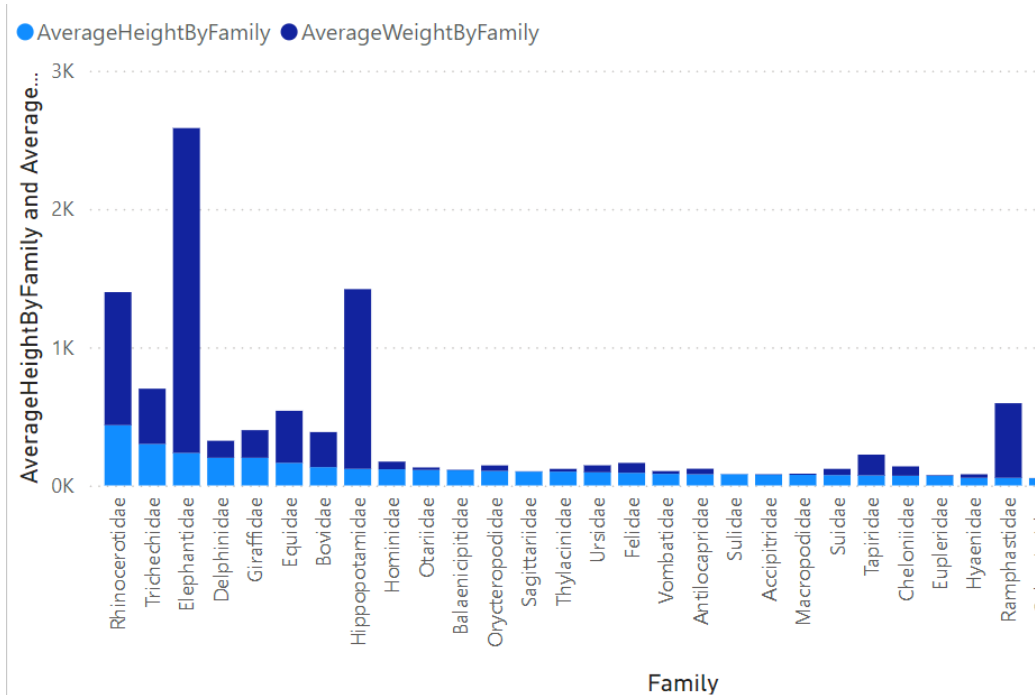


Observations:

- The largest group consists of solitary animals, making up 64.85% of the total, indicating most species in this dataset prefer individual living.
- Group-based and social groups are the next most common structures.

3. `AverageHeightByFamily = AVERAGEX(
'Animal Dataset',
('Animal Dataset'[Height (cm)] + 0)
)`

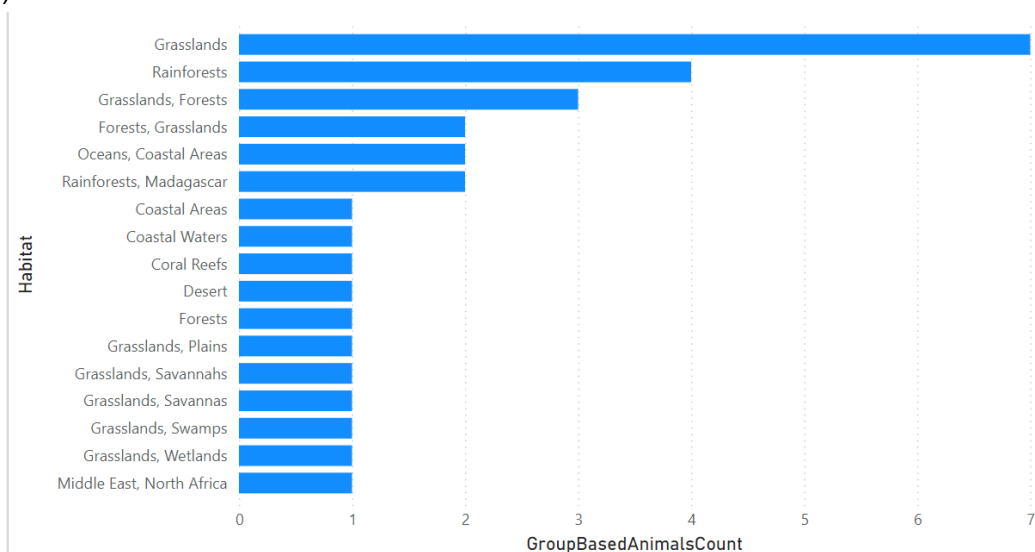
`AverageWeightByFamily = AVERAGEX(
'Animal Dataset',
('Animal Dataset'[Weight (kg)] + 0)
)`



Observations:

- The Elephantidae family has the highest average weight, far exceeding other families, while also having a substantial average height.
- Highest average height is for Rhinocerotidae family

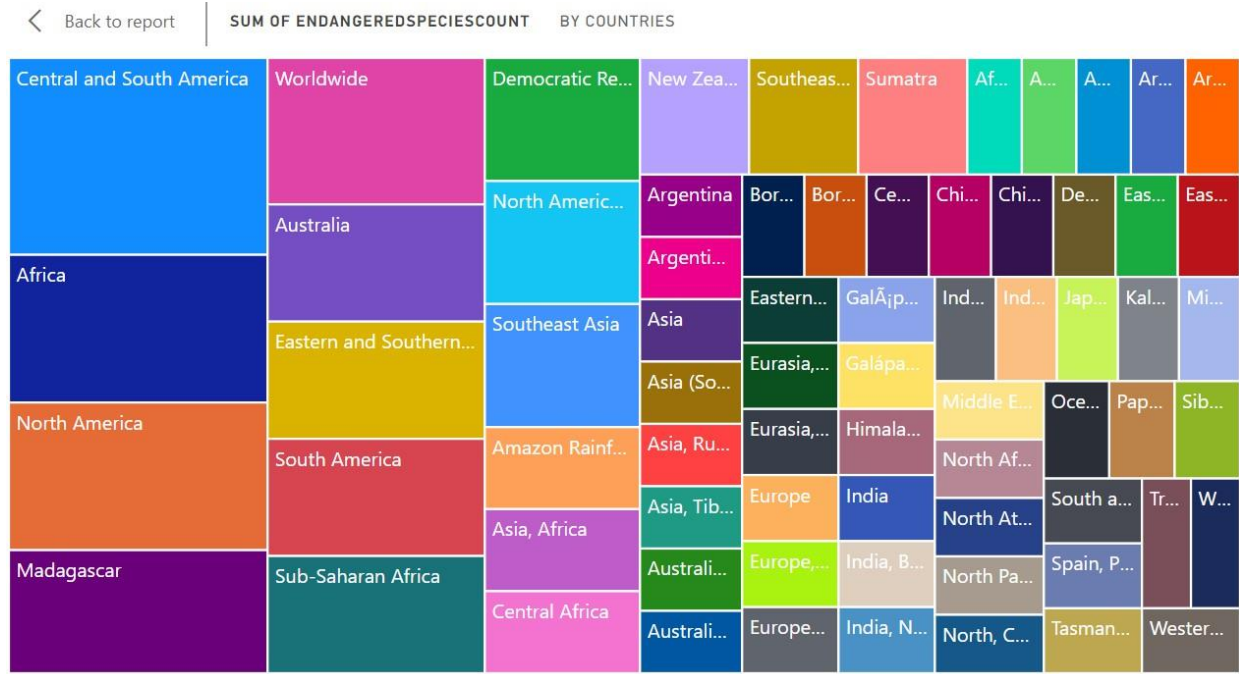
4. GroupBasedAnimalsCount = CALCULATE(
COUNTROWS('Animal Dataset'),
'Animal Dataset'[Social Structure] IN {"Group-based", "Herd-based"}
)



Observations:

- Grasslands is the most common habitat, with a significantly higher count of animals suggesting the most favourable conditions for living.
- While coastal areas, coastal reefs, deserts have lowest habitation suggesting tougher conditions to live in.

5. EndangeredSpeciesCount = COUNTROWS(FILTER('Animal Dataset', 'Animal Dataset'[Conservation Status] = "Endangered"))



Observations:

- Central and South America, Africa, and North America have large blocks, indicating they have a higher number of endangered species compared to other regions.
- Numerous smaller regions like Argentina, Southeast Asia, and Amazon Rainforest show a relatively lower but notable count of endangered species.