**Visualisation**

Dashboard Breakdown:

**Part 1: Row level calculations**

* We created a calculated field to project the life expectancy by 4 years

A white background with black and white clouds

Description automatically generated

* We visualized this data in a bar chart showing only the top 10 countries

A graph with red and pink bars

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* We converted the population field that contains M (for million) into a numerical field

A screen shot of a computer

Description automatically generated

**Part 2: Aggregate-Level Calculations**

* We Created a visualization showing the total [Population 15-64] per region.

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* We displayed the average [Life Expectancy] over time segmented by region

A screenshot of a graph

Description automatically generated

**Part3: Table Calculations**

* We Created a line chart representing the running total of [Tourism Inbound] over a specified period. (2006)

A graph with a red line

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* We Rank countries based on [GDP per Capita] for a selected year.(2006)

**A flagpole with a flag on it

Description automatically generated**

* We designed a stacked bar chart showing each country's contribution to the total [Population Total] within a region.

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Description automatically generated

**Part4: Reporting and insights**

* Switching a field from continuous to discrete happens when we want to categorize or group values instead of showing a continuous range, while keeping them as continuous is to show trends, distributions and comparisons

A grid of lines with numbers

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* Dashboard compilations:

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1. **Countries with Highest Life Expectancy**

* **Description:** A horizontal bar chart showing the average projected life expectancy for countries with the highest figures. The data is filtered to highlight only the top countries by life expectancy.
* **Observations:** Countries like Japan, Hong Kong SAR, and Switzerland top the list with life expectancies above 80 years, suggesting high standards of healthcare and quality of life in these regions.
* **Takeaway**: Higher life expectancy tends to be seen in economically developed countries, indicating a correlation between economic prosperity and health outcomes.

1. **Countries GDP Rank in 2006**

* **Description**: A table listing countries ranked by their GDP in 2006, from highest to lowest.
* **Observations**: Monaco, Luxembourg, and Liechtenstein are at the top of the GDP rankings, highlighting their economic strength despite their smaller population sizes.
* **Takeaway**: Small countries with specialized economies, like Monaco, can achieve high GDP per capita, reflecting economic specialization or favorable tax laws.

1. **Population by Region**

* **Description**: A treemap visualizing the total population by geographical regions, with each region's population highlighted.
* **Observations**: Africa and Europe have the largest populations, while Oceania has the smallest. This visualization quickly shows regional population distribution.
* **Takeaway**: Population trends are crucial for understanding market size, economic potential, and regional influence on global affairs.

1. **Average Life Expectancy by Region Over Time**

* **Description**: A line chart showing the average life expectancy trends across different regions over a timeline.
* **Observations**: Most regions exhibit a gradual increase in life expectancy over the years, with regions like Europe and Oceania consistently having higher averages.
* **Takeaway**: Continuous improvements in healthcare, education, and standards of living contribute to the increasing trend in life expectancy globally.

1. **Country Percentage of Occupation Per Region**

* **Description**: A stacked bar chart illustrating the percentage of total population occupation by region.
* **Observations**: The Americas, Asia, and Europe have the highest population occupation percentages, indicating the regions' significant share in global demographics.
* **Takeaway**: Demographic trends can provide insights into labor market size, resource allocation, and potential consumer base.

1. **Tourism Inbound**

* **Description**: A line chart depicting the running sum of numerical tourism inbound over the years.
* **Observations**: The tourism inbound shows a steady upward trend, highlighting an increasing number of tourists visiting these regions over time.
* **Takeaway**: Growth in tourism indicates better infrastructure, improved political stability, and attractiveness of regions for global visitors.

Overall Key Insights:

* Economic Strength and Health: There's a clear relationship between high GDP and life expectancy, as economically stronger countries tend to have better healthcare systems, leading to higher life expectancy.
* Regional Trends: The visualizations provide insight into the demographic, economic, and social differences between regions, indicating areas of growth, challenges, and opportunities.
* Population Dynamics: The distribution of population among regions hints at potential economic markets and regions that might require more developmental assistance

**Extras:**

* Average projected life expectancy

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* Numerical Tourism Inbound

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