# WORLD HAPPINESS REPORT DATASET DESCRIPTIVE

**Power BI Column Calculations**

Each column in the happiness dataset can be created as a **calculated column** using DAX.

1. **Score**

* **What it is**: The overall happiness score for each country.
* **Formula to calculate**: Usually a sum of weighted factors.

HappinessScore = [LogGDP] + [SocialSupport] + [HealthyLifeExpectancy] + [Freedom] + [Generosity] + [Corruption] + [DystopiaResidual]

2. **Log GDP per capita**

* **What it is**: Logarithmic transformation of GDP per person.
* **Formula to calculate**:

LogGDP = LOG([GDPPerCapita])

This helps normalize skewed data.

3. **Social Support**

* **What it is**: A score based on survey responses about having someone to rely on.
* **Formula to calculate**: If we have raw survey data:

SocialSupport = AVERAGE([SupportScore])

Or use a preloaded value directly.

4. **Healthy Life Expectancy**

* **What it is**: Expected years of healthy life.
* **Formula to calculate**:

HealthyLifeExpectancy = [LifeExpectancy] - [YearsInPoorHealth]

Or we can use WHO data if available.

5. **Freedom to Make Life Choices**

* **What it is**: Survey-based score on perceived freedom.
* **Formula to calculate**:

Freedom = AVERAGE([FreedomSurveyScore])

6. **Generosity**

* **What it is**: Based on charitable donations or helping behavior.
* **Formula to calculate**:

Generosity = AVERAGE([DonationScore])

7. **Perceptions of Corruption**

* **What it is**: Score based on perceived corruption in government/business.
* **Formula to calculate**:

Corruption = AVERAGE([CorruptionSurveyScore])

8. **Dystopia + Residual**

* **What it is**: A baseline value added to make scores comparable.
* **Formula to calculate**:

DystopiaResidual = [Score] - ( [LogGDP] + [SocialSupport] + [HealthyLifeExpectancy] + [Freedom] + [Generosity] + [Corruption] )

This fills the gap between actual score and sum of known factor.