# Data dictionary:

| **Column Name** | **Description** |
| --- | --- |
| **population\_2024** | Total estimated population of the country in the year 2024. |
| **population\_growthRate** | The rate at which the population of the country is growing. |
| **land\_area** | The total land area of the country, likely measured in square kilometers. |
| **country** | The name of the country. |
| **region** | The geographical region where the country is located. |
| **unMember** | Indicates whether the country is a member of the United Nations (True/False). |
| **population\_density** | The population density of the country per square kilometer. |
| **population\_densityMi** | The population density of the country per square mile. |
| **share\_borders** | The countries with which this country shares its borders. |
| **Hdi2021** | The Human Development Index (HDI) for the year 2021. |
| **Hdi2020** | The Human Development Index (HDI) for the year 2020. |
| **WorldHappiness2022** | The World Happiness Index for the year 2022. |
|  |  |

# Descriptive statistic

We have to describe a report of the dataset

| **#** | **Column** | **Count** | **Mean** | **Std** | **Min** | **25%** | **50%** | **75%** | **Max** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | population\_2024 | 141 | 54,221,570 | 174,936,300 | 377,689 | 5,494,963 | 11,715,770 | 39,107,050 | 1,441,720,000 |
| 2 | population\_growthRate | 141 | 0.9327% | 1.2112% | -3.087% | 0.118% | 0.892% | 1.823% | 3.809% |
| 3 | land\_area | 141 | 873,430.6 km² | 2,200,180 km² | 316 km² | 64,559 km² | 238,391 km² | 652,230 km² | 17,098,242 km² |
| 4 | population\_density | 141 | 272.74/km² | 945.62/km² | 2.24/km² | 37.37/km² | 87.14/km² | 170.27/km² | 8,429.96/km² |
| 5 | population\_densityMi | 141 | 706.40/mi² | 2,449.16/mi² | 5.81/mi² | 96.78/mi² | 225.68/mi² | 440.99/mi² | 21,833.59/mi² |
| 6 | Hdi2021 | 141 | 0.7372 | 0.1538 | 0.394 | 0.607 | 0.754 | 0.875 | 0.962 |
| 7 | Hdi2020 | 141 | 0.7376 | 0.1523 | 0.397 | 0.610 | 0.756 | 0.871 | 0.959 |
| 8 | WorldHappiness2022 | 141 | 5.5426 | 1.1052 | 2.404 | 4.744 | 5.578 | 6.293 | 7.821 |

# Objective

Is know which is the Best Country to Live According to Human Development Index

Following questions that we have to answer finding the patrons in the dataset:

Key columns:

**population\_2024**

**population\_growthRate**

**land\_area**

**population\_density**

- Country with the highest population

- Compare the country by index and population

- compare the country with the highest hdi

-Country with the best develop in the last years

-Country that has potential of growing in the next years

- Which country has the best growthRate?

-Which countries have the highest and lowest population growth rates?

-How do population growth rates vary by region (e.g., Asia, Europe, Africa)?

-Is there a relationship between population growth rate and Human Development Index (HDI) or World Happiness Index?

## Critical Decision:

For define the best country is x,

But if you are intreted in live in a country with less population and high index I recccomend this, but if you are looking for very populate and high index I recommend that….

# Factors:

The are many factors to consider whis is the best country, depending if you are looking for very populate country o low pouplate