|  |  |
| --- | --- |
| **WORLD LIFE EXPECTANCY**  **MYSQL PROJECT** | This project analyze the global life expectancy trends from 2007 to 2022 across different countries, recognizing its significance as a measure of a country's overall health and well-being.  Cosmina Marginean |

**📝 PROJECT SUMMARY:**

This analysis will explore the relationship between life expectancy and factors like GDP, adult and infant mortality, healthcare and education to determine their impact. We will investigate the correlation between the country's status and life expectancy. Additionally, we will examine trends of life expectancy in relation to GDP.

**🎯DATASET:**

The dataset used providing a rich source of information for assessing changes in life expectancy over time.

**COLUMNS DESCRIPTION:**

|  |
| --- |
| * Country : Country |
| * Year : Year |
| * Status : Country Developed or Developing status |
| * Life expectancy : Life expectancy in age |
| * Adult Mortality : Adult Mortality Rates of both sexes (probability of dying between 15 and 60 years per 1000 population) |
| * infant deaths : Number of Infant Deaths per 1000 population |
| * Percentage expenditure : General government expenditure on health as a percentage of total government expenditure |
| * Measles : Measles - number of reported cases per 1000 population |
| * BMI : Average Body Mass Index of entire population |
| * under-five deaths : Number of under-five deaths per 1000 population |
| * Polio : Polio (Pol3) immunization coverage among 1-year-olds (%) |
| * Diphtheria : Diphtheria tetanus toxoid and pertussis (DTP3) immunization coverage among 1-year-olds (%) |
| * HIV/AIDS : Deaths per 1 000 live births HIV/AIDS (0-4 years) |
| * GDP : Gross Domestic Product per capita (in USD) |
| * thinness 1-19 years : Prevalence of thinness among children and adolescents for Age 10 to 19 (%) |
| * thinness 5-9 years : Prevalence of thinness among children for Age 5 to 9(%) |
| * Schooling : Number of years of Schooling(years) |

**🔹 STEPS AND ANALYSIS:**

1. Data Loading **🔍**

* Create a new schema, load the dataset
* Create a staging table
* Explore the dataset

2. Data Cleaning 🛠

* Finding the duplicates and remove them
* Handling missing values
* Updating the blank rows of the Status column
* Fill missing values of Life Expectancy with the average values

3. Exploratory Data Analysis **📊**

**📌** The average life expectancy for each year

**📌** How life expectancy increase over 15 years?

**📌**High GDP vs Low GDP

**📌**Correlation between status and life expectancy for each country

**📌**Life expectancy vs Schooling

**📌**Rolling Total for Adult Mortality

**📌**Rolling Total for Infant deaths