
Building a Happy Country

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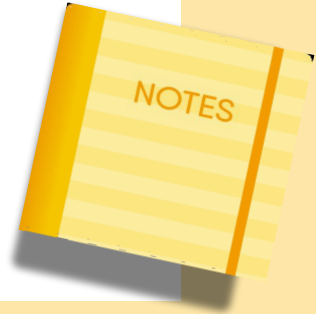


Project Overview

01. Business Case

We are a new country 🌟

We want **our population to be happier** and we have **the goal to be in the Top 10 happiest countries** in the ranking of the next year,
and **attract tourists** to visit our country more often.

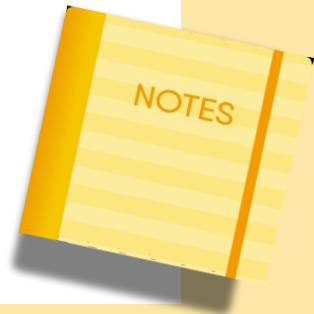


02. Hypothesis

Hypothesis

Health : Longer average life full health score will be positively correlated with a higher Happiness score.

GDP : The negative correlation between the average number of hours worked per week and the Happiness score will be stronger in countries with a higher GDP per capita (wealthier nations) than in countries with a lower GDP per capita.



03. Datasets

World Happiness Report
by Gallup World Poll, WTO, WHO



0-10 scale of happiness score amongst 156 countries

kaggle



Life Expectancy, Freedom, Generosity,
Perception of Corruption



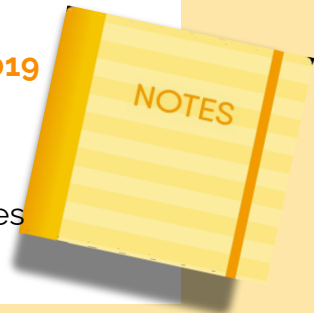
GDP per capita



university of
 groningen

Penn World Table version 11.0, 2019

Database with relative levels of
income, output, input and
productivity, covering 185 countries



Data Structuring

Major Obstacles



Difficulty defining a clear research question



importance of starting with a focused, testable hypothesis



JOIN issues between the two datasets



relational databases require consistent and standardized key fields.



Choosing the right variables for analysis



prioritize variables using descriptive statistics and proper documentation.

Data Transformation Challenges

01

Inconsistent column names

Standardized before import

02

Mismatched country labels

Cleaned with country_converter

03

Incorrect data types

Applied proper SQL types

04

Import errors

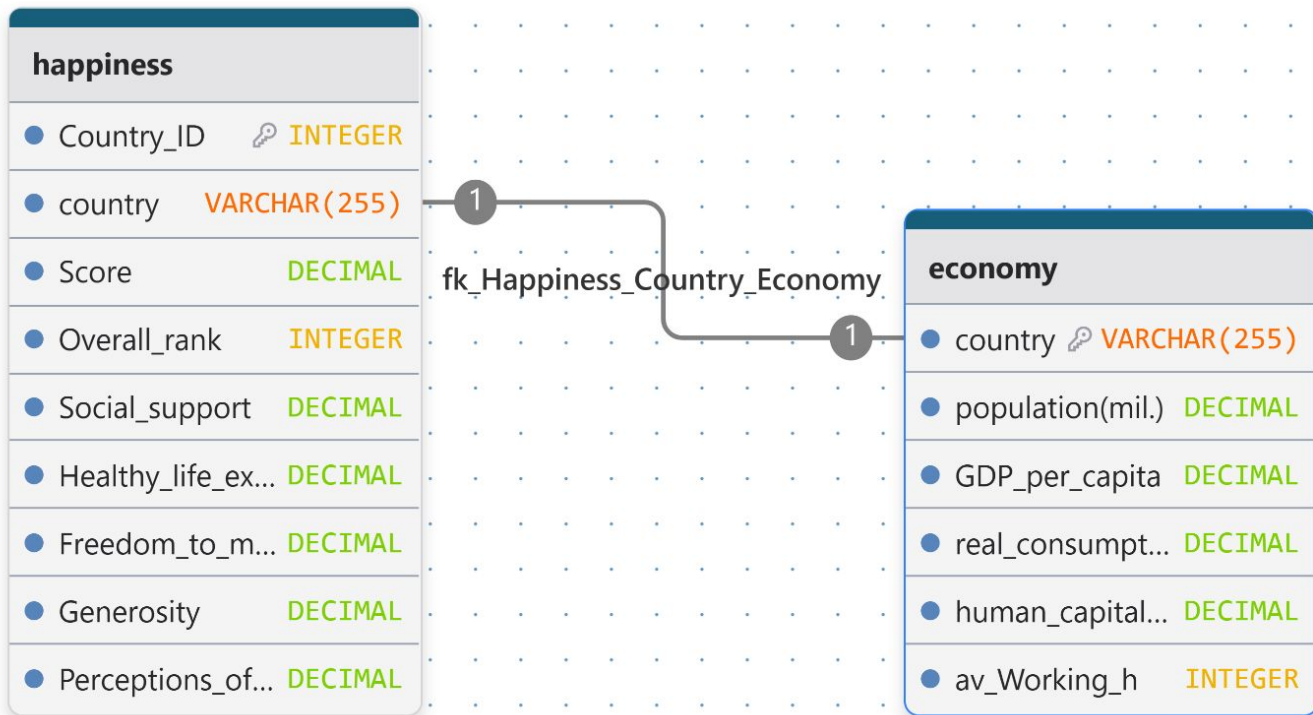
Fixed by editing CSVs and recreating schema

05

Scaled variables

Documented to avoid misinterpretation.

Entity Relationship Diagram



Analysis

GDP ✓ Happiness

Top 10 Happiest in High GDP Category (2.5 times vs AVG 24953 (mil))



Finland



Switzerland



Denmark



Sweden



Norway



New Zealand



Iceland



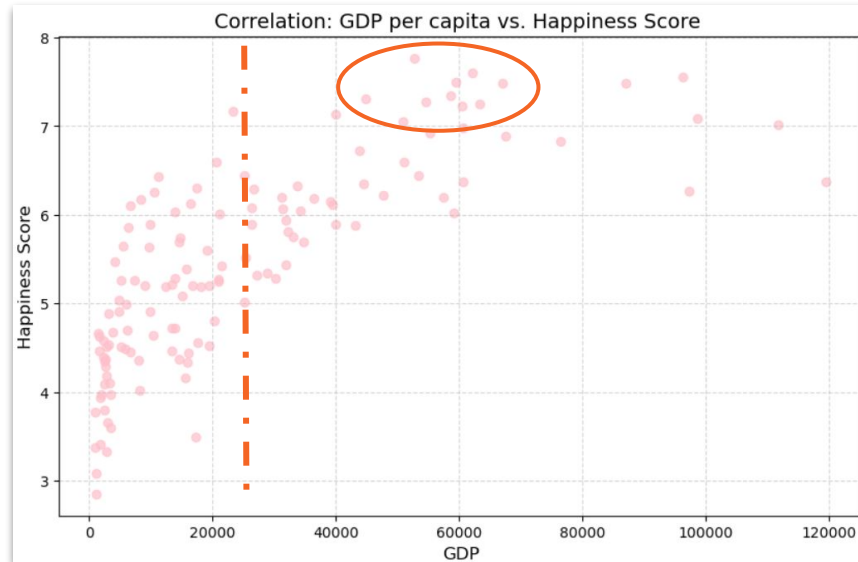
Canada



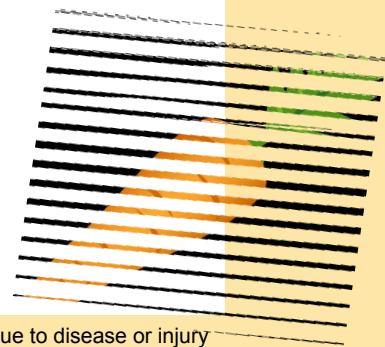
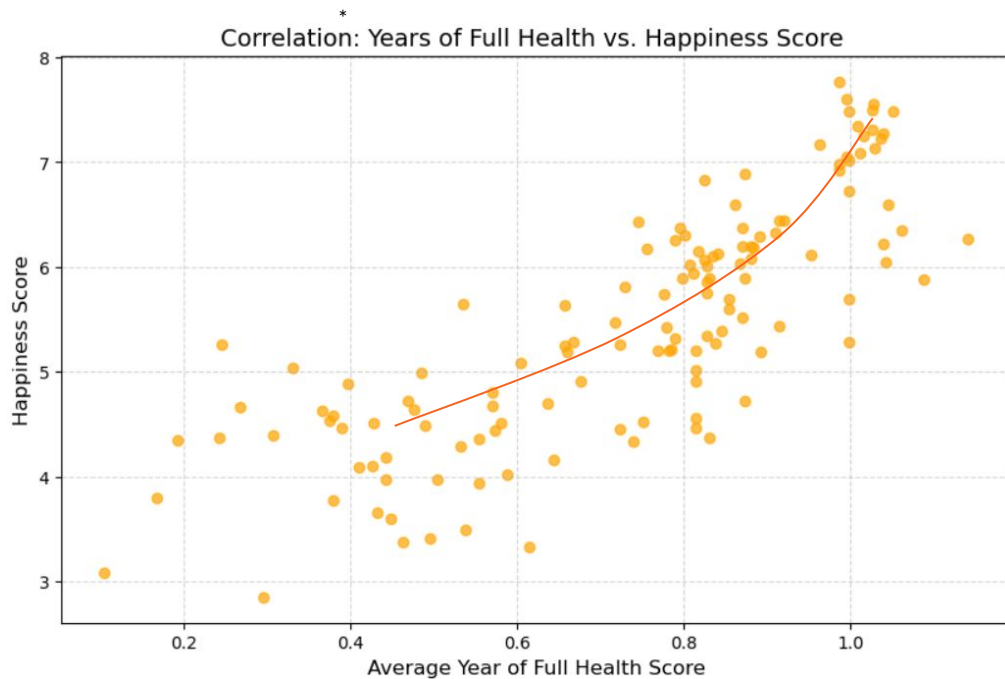
Netherlands



Austria




Health = Happiness



*estimates the average number of years a person can expect to live in "full health" by taking into account years lived in less than full health due to disease or injury

Long Life <> Happiness

Country	Overall Happiness Rank 😞	Healthy Life Expectancy  TOP	Annual Working Hrs
Singapore	34	1.14	2331
Hong Kong	76	1.12	2231
Japan	58	1.08	1688



\$, > Working hrs ✓ Happiness



Denmark



Netherlands



Norway



Iceland



Sweden

Below 1500 hours* 😊



Austria



New Zealand



Finland



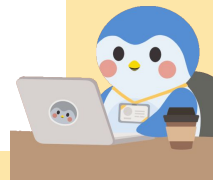
Canada



Switzerland

1500~1748 hours 😊

*annual total (avg 1948)



Conclusions

Keys to Happy Country

Research Questions Which factors most strongly predict happiness & how can as government improve them?

Key Findings



Healthy Life Expectancy is a strong predictor of happiness, confirming our hypothesis.



High GDP increases happiness especially when paired with balanced working hours.



Wealthy countries that overworked rank lower in happiness.



Our Policy & Final Insights

Policy Implication for our New Country

Invest in Public Health => Universal Health Care & Prevention

Grow GDP Sustainably => Innovation & Fair Wages

Protect Work-Life Balance => Limit Excessive Hours



Final Thought

Happiness thrives where people are healthy and not overworked, wealth alone is not enough.



Thank you !!



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