
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



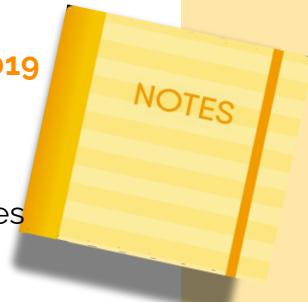
GDP per capita



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

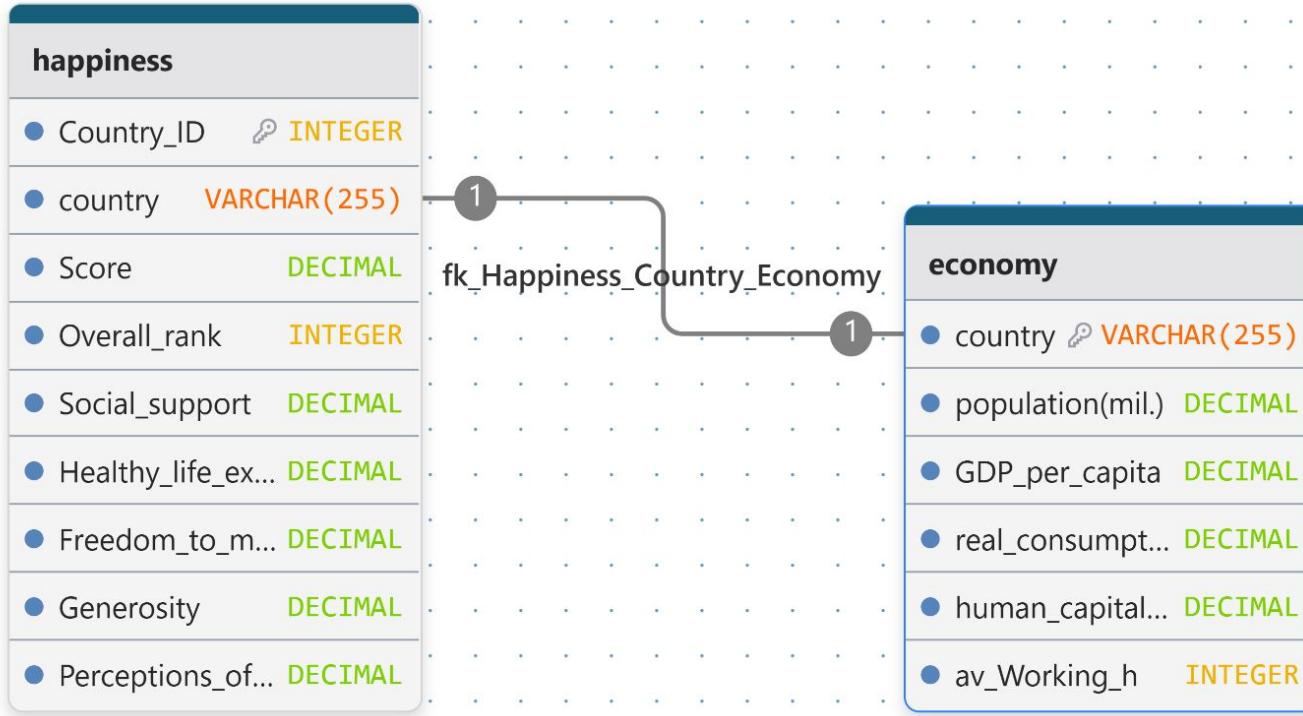


prioritize variables using descriptive statistics and proper documentation.

Data Transformation Challenges

01	Inconsistent column names	Standardized before import
02	Mismatched country labels	Cleaned with <code>country_converter</code>
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



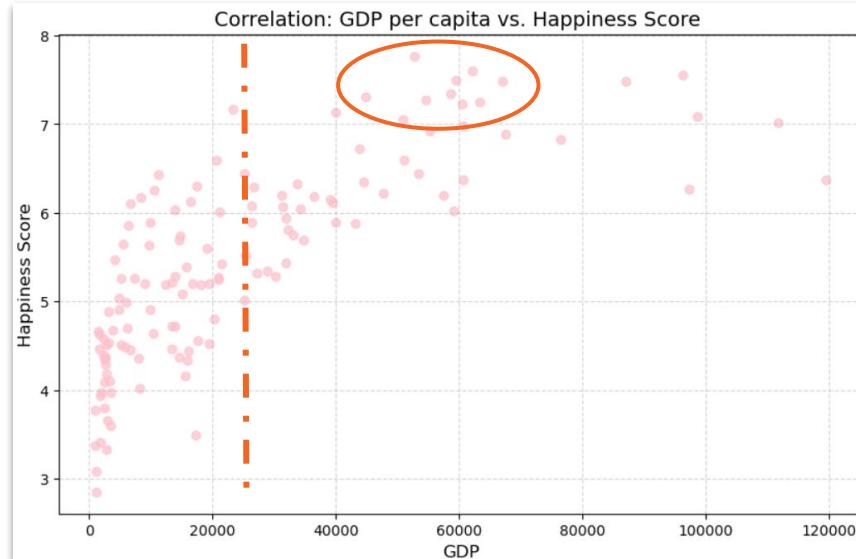
Canada



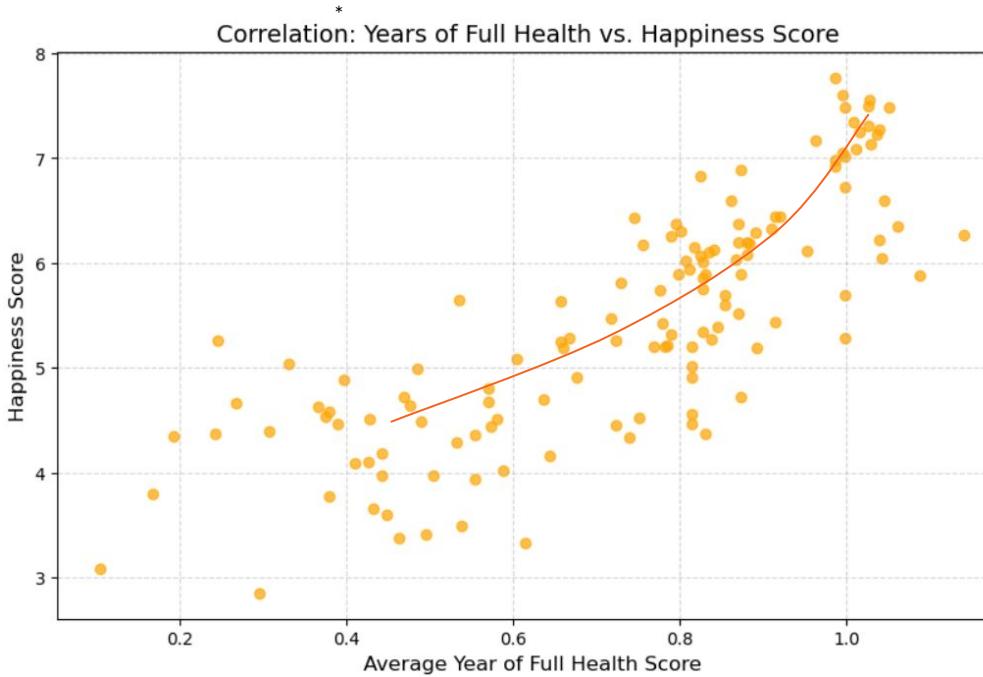
Netherlands



Austria



Health = Happiness



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



Netherland



Norway



Iceland



Sweden



Austria



New Zealand



Finland



Canada



Switzerland

Below 1500 hours* 😊

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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