

Data Analyst and Project Management Course

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WHO LIFE EXPECTANCYDATA PROJECT



Background

 Background in IT and introducing new tech in fortune 500 companies as a project manager office support role

Experience/Qualification

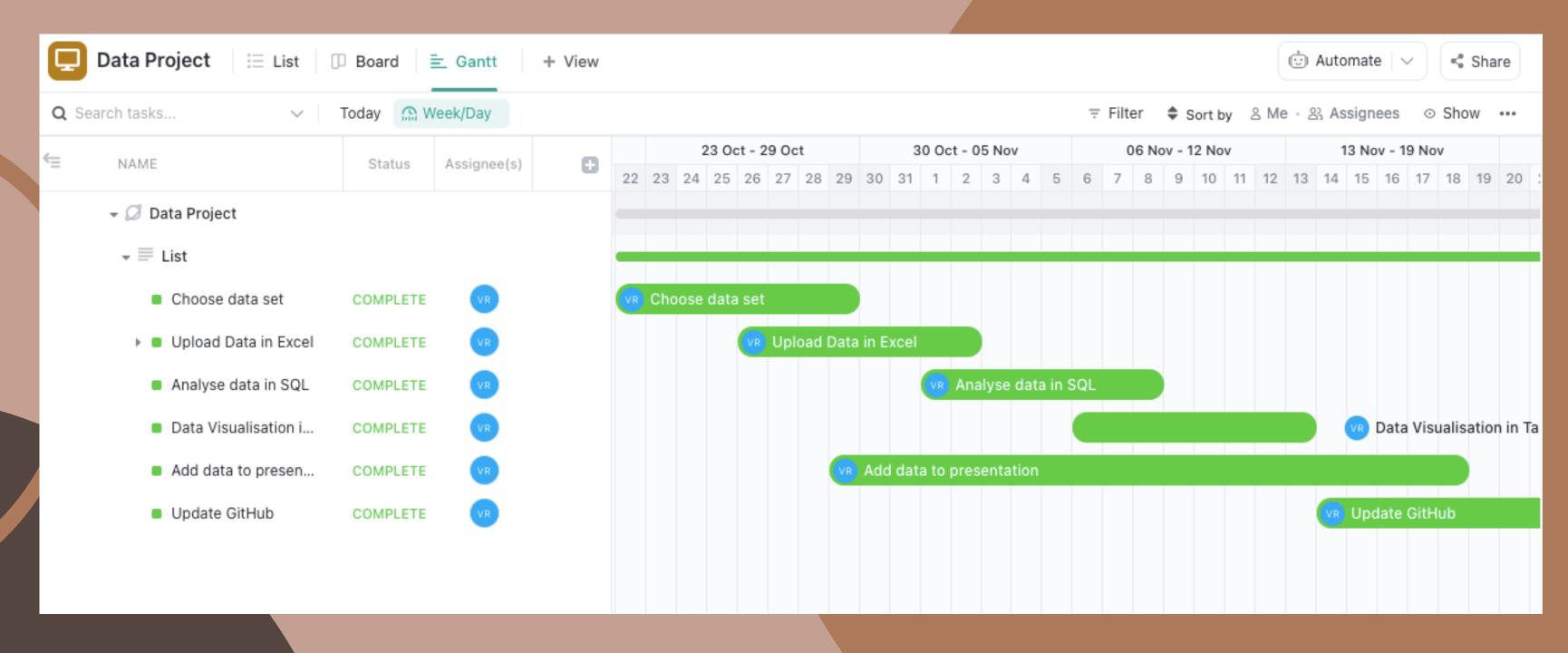
- BA Hons Marketing Management
- Post Graduate International Business
- Full Stack Development Black CodHer bootcamp
- 10 years project management experiece and I have been running my own business as a consultant

"Hi! I'm Victoria
I'm learning to become a
data analyst!"





Planning





EXCEL ANALYSIS X



Using COUNTIF Function and SUM Function		
Formulae = (COUNTIF(\$C\$2:\$C\$2891, "=REGION"))/17		
Number of Coutries in Each Region	Region	
44	Africa	
32	Americas	
17	Eastern Mediterranean	
47	Europe	
9	South-East Asia	
21	Western Pacific	
170	Total =SUM(A:A) number of countries in this dataset	

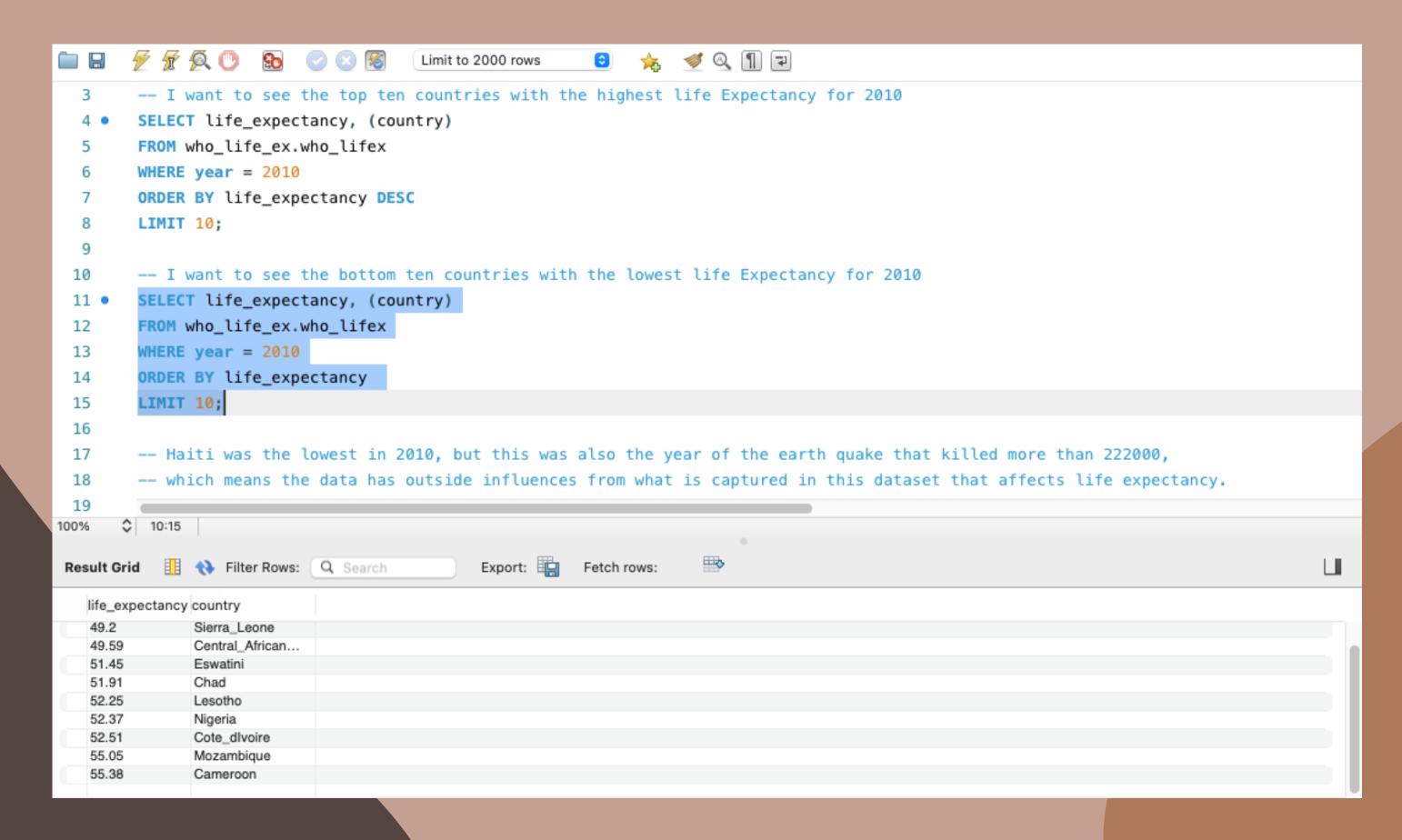
Using MAX/MIN Function = MAX(A:A) / =MIN(B:B)	
84.17	Finding the value for the maximum life expectancy
36.23	Finding the value for the lowest life expectancy

Using XLOOKUP Function	
Finding the country with the MAX and MIN life expectancy	
Formulae = XLOOKUP(A1,D2:D2891,A2:A2891)	
84.17	Japan
36.23	Haiti



SQL ANALYSIS Mysc

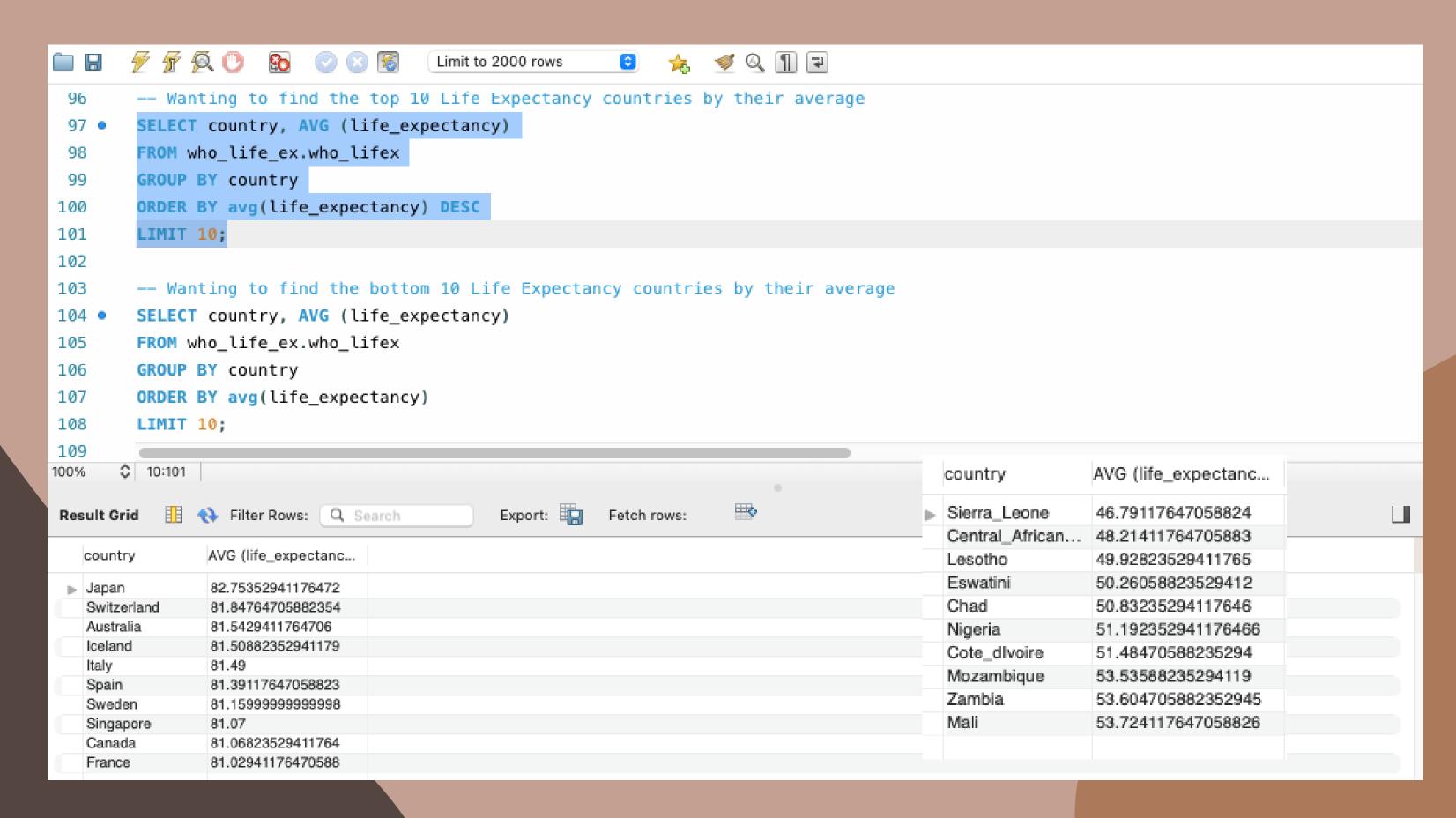






SQL ANALYSIS My50







Problem Solving

Cleaning data

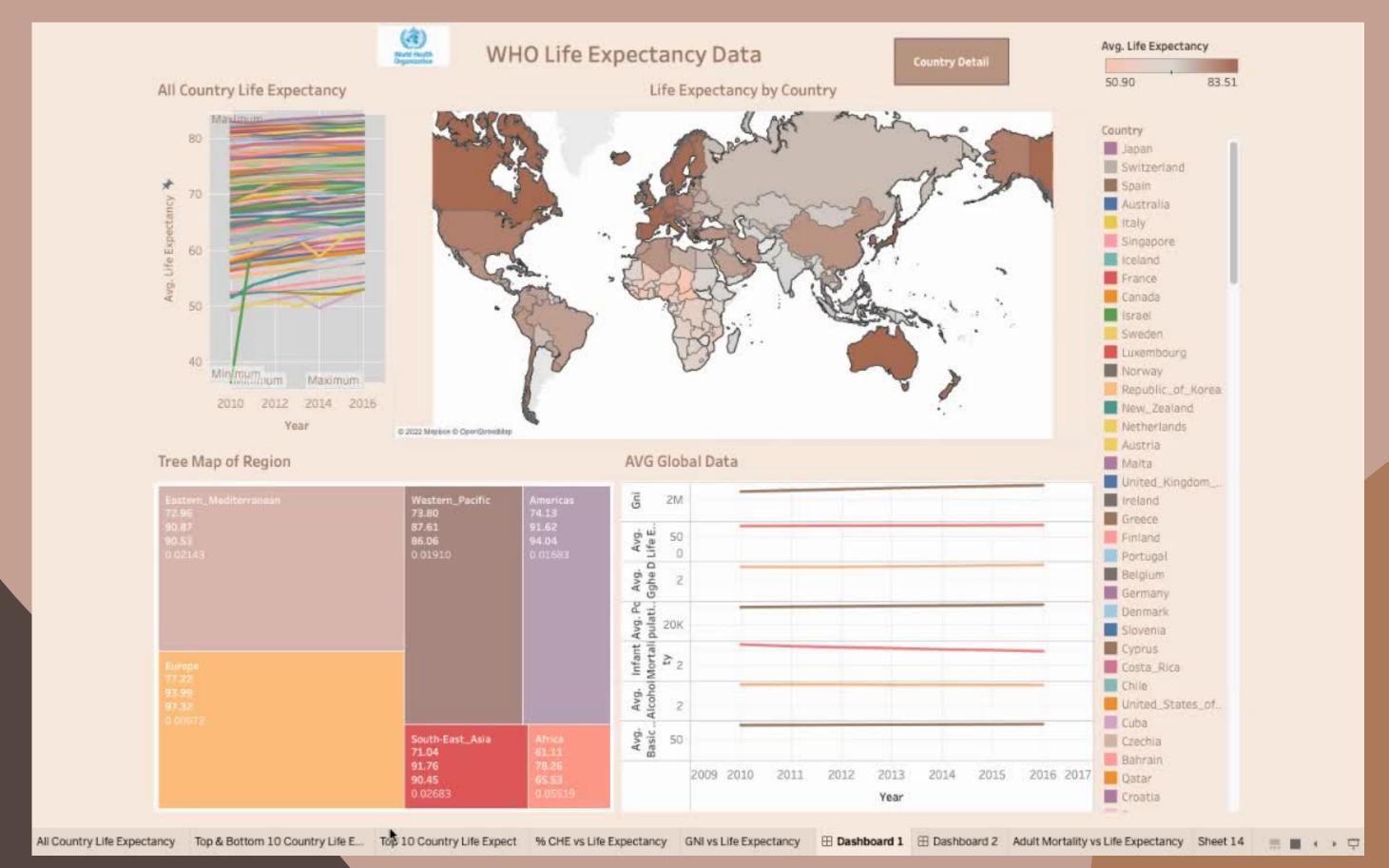
My original database has alot of missing data. For Brazil for the first population data set, found the difference between the population growth each year (from 2005 - 2001) avg the difference each year then minus that from the previous year to the missing data.

Why isn't my SQL working?!?

One of the countries has an accent which stopped my data uploading past the first 500 entries. I also used SUBSTITUTE formulae to remove all of the spaces



DATA VISUALISATION





Findings

Summary and Trends

Globally there is an increase in population, GNI, access to basic water, immunisation against measles, polio and alcohol consumption and infant mortality is on the decrease, which explains why life expectancy is on the rise.

My hypothesis that wealth in a contributing factor to increased life expectancy can be interpreted as correct, however it is also more nuanced than that.

Once we breakdown countries but the top 10 Life Expectancy and the Bottom 10 Life Expectancy, there is a big wealth divide between these cohorts, the bottom 10 being significantly less wealthy, but when you get into the detail the richest country does not have the highest life expectancy, and the poorest country does not have the lowest life expectancy.

The lower life expectancy countries have significantly lower immunisations, access to clean water and higher infant mortality. I would argue that investing in these areas could lead to higher life expectancy. A trend does show however that each year this improves, and life expectancy is increasing, however the gap between the high income, and low income countries is still large (30yrs in some case).

With a foundation of high immunisations, and higher spending on healthcare for the top 10 life expectancy countries, I would argue that it shifts from life expectancy to a discussion about longevity. The richest country (Japan) with the highest immunisation (Israel) doesn't have the highest life expectancy. I would argue this data doesn't capture what causes a population to live longer, and that question could be answered by the Blue Zones Dataset which focuses on the highest number of people that live to 100 across the world, and the patterns across those countries that cause people to live longer. From this dataset it identifies lifestyle choices, and diet, which contribute to longevity, Japan again having the highest number of centurions.



What I've learnt

Spreadsheets excite me! I know a little strange but now I get to join my passion for numbers with storytelling!

Data

Cleaning data, I've furthered my Excel skills and learnt how to use SQL, Python, and data visualisation

Problem solving and collaboration

My ability to ask for help and work with others have been enhanced.

The technical world is less intimidating

I feel more equipped go grow in this area and take a seat at the table.



Thank you for listening!

ANY QUESTIONS?

