

DAV HW 5

FINAL PROJECT

Group Members:

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1. **Title:** Employment, Life Satisfaction and Urbanization
2. **Software:** Tableau
3. **Visualisations:**
 - a. Bump Chart
 - b. Bubble Chart
 - c. Connected Scatter Chart
 - d. Connected Scatter video
 - e. Line Chart
 - f. Bar Chart
 - g. World map Chart
 - h. Dumbbell Chart
 - i. Slope Chart
4. **Dataset sources:**
 - a. <https://ourworldindata.org/working-hours>
 - b. <https://ourworldindata.org/happiness-and-life-satisfaction>
 - c. <https://ourworldindata.org/human-development-index>
 - d. <https://ourworldindata.org/urbanization>
5. **Data Quality:**
 - a. The data has been downloaded from our world data.
 - b. We have considered data from 4 different topics and are trying to find correlations between them.
6. **Data Limitations:**
 - a. The data has many null values.
 - b. Some columns are complete with no null values, but others have many null values.
 - c. We have cleaned the data and collated all the data into one master data set.
7. **Data Variables:** The data has a total of variable
 - a. Country
 - b. Country_Code
 - c. Continent
 - d. Year
 - e. Annual working hours per worker
 - f. GDP per capita
 - g. Population
 - h. Days of vacation and holidays for full-time production workers in non-agricultural activities

- i. Productivity: output per hour worked
- j. Life satisfaction
- k. Life expectancy
- l. Share of people who are happy (World Value Survey 2014)
- m. Share of people who are happy (Eurobarometer 2017)
- n. Average Total Years of Schooling for Adult Population
- o. Life expectancy at birth
- p. Human Development Index
- q. GNI per capita
- r. Expected Years of Schooling
- s. Urban population
- t. Rural population
- u. Urban population %
- v. Population living in slums (% of urban population)
- w. Population in the largest city (% of urban population)
- x. Minimum population threshold for urban area
- y. Agriculture employment share

8. Insights:

- a. Effect of working hours on GDP
- b. Impact of working hours on productivity
- c. Impact of working hours on Life satisfaction
- d. Result of years of schooling on Life satisfaction and GDP
- e. Effects on Human Development Index based on working hours, Life satisfaction
- f. Effects on Urbanization because of various factors
- g. Finding correlations between all the variables

9. Challenges:

- a. The missing data in the datasets will be problematic when plotting them in Tableau.
- b. All the data could not be put into one master dataset, so it has been divided into three data sources, and all of them have been added to the Tableau file.

NOTE:

Further, during the analysis, if we find some exciting datasets or new visuals, we will include them and finalise the final presentation.