Assignment 1

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TY-Comp Batch: A3

Aim: Perform the following operations using **Python** on suitable data sets, Read a data from different formats(like csv,xls),indexing and selecting data, sort data, describe attributes of data, checking data types of each column, counting unique values of data, format of each column, converting variable data type (e.g. from long to short, vise versa), identifying missing values and fill in the missing values.

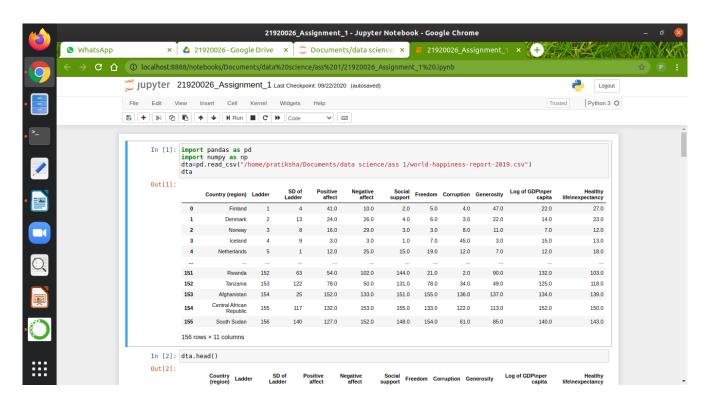
Outcome:

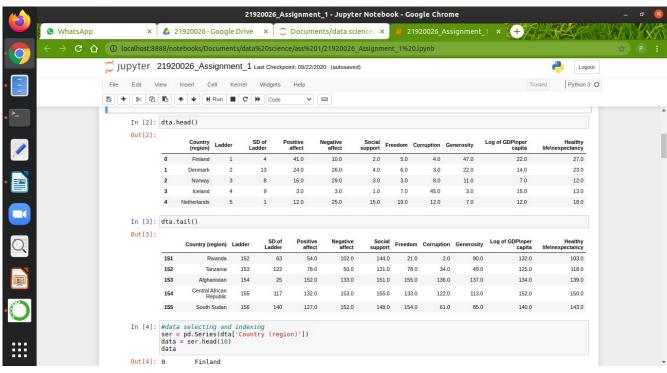
Dataset Name: World Happiness Report 2019

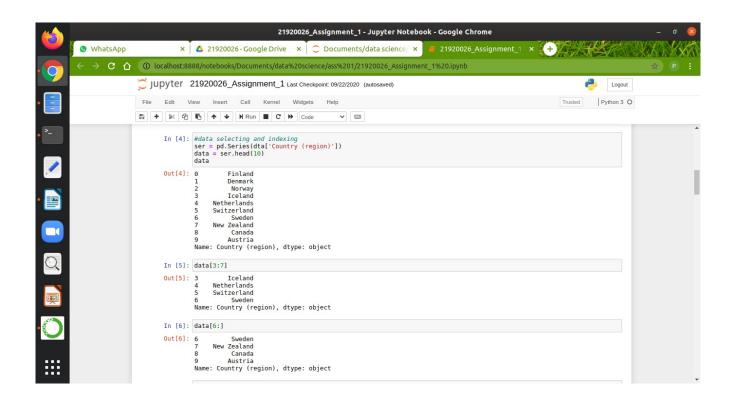
Overview of Data:

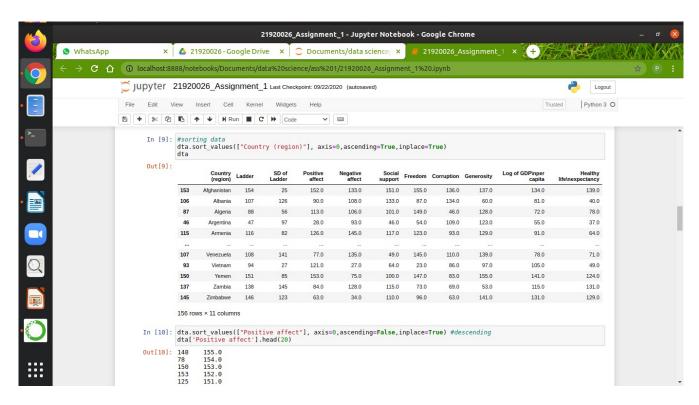
Each column of data has the next description.

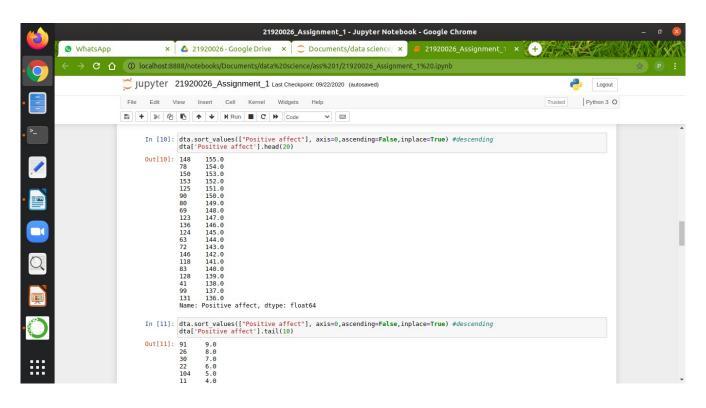
- 1. **Country (region)**: Name of the country.
- 2. **Ladder:** is a measure of life satisfaction.
- 3. **SD of Ladder:** Standard deviation of the ladder.
- 4. **Positive affect:** Measure of positive emotion.
- 5. **Negative affect:** Measure of negative emotion.
- 6. **Social support**: The extent to which Social support contributed to the calculation of the Happiness Score.
- 7. **Freedom:** The extent to which Freedom contributed to the calculation of the Happiness Score.
- 8. **Corruption:** The extent to which Perception of Corruption contributes to Happiness Score.
- 9. **Generosity:** The extent to which Generosity contributed to the calculation of the Happiness Score.
- 10.**Log of GDP per capita:** The extent to which GDP contributes to the calculation of the Happiness Score.
- 11.**Healthy life expectancy:** The extent to which Life expectancy contributed to the calculation of the Happiness Score.

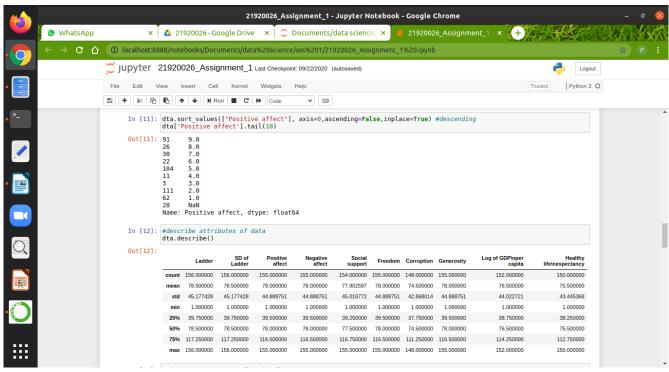


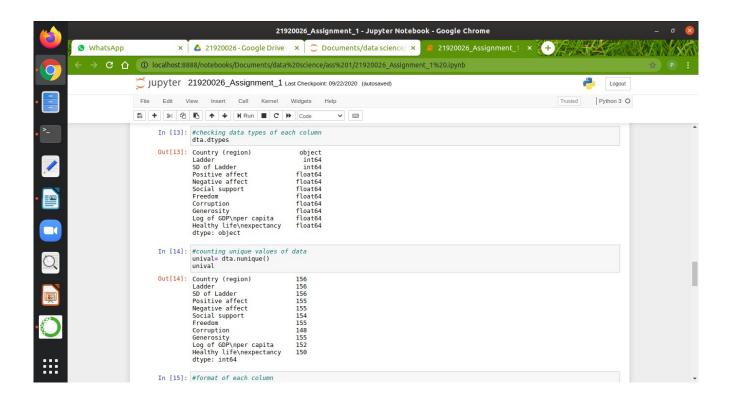


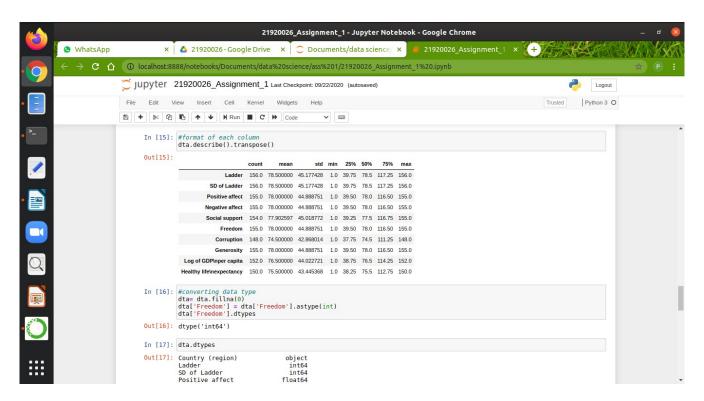


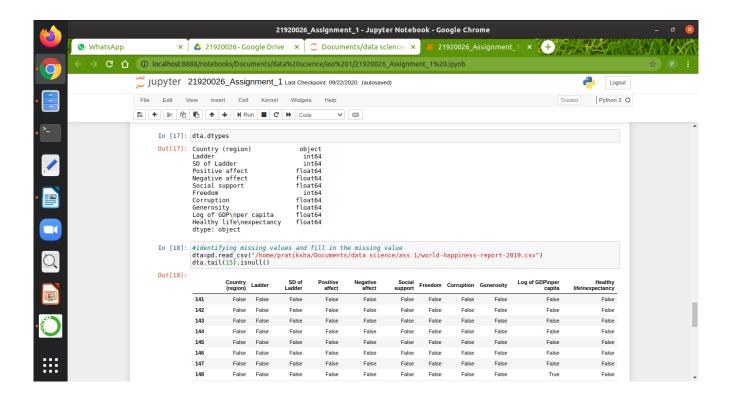


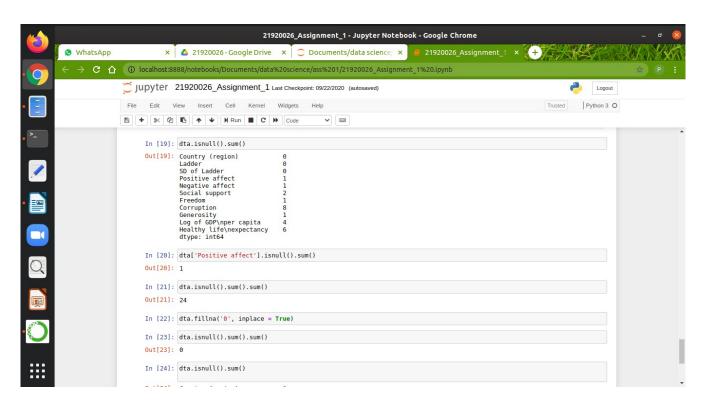


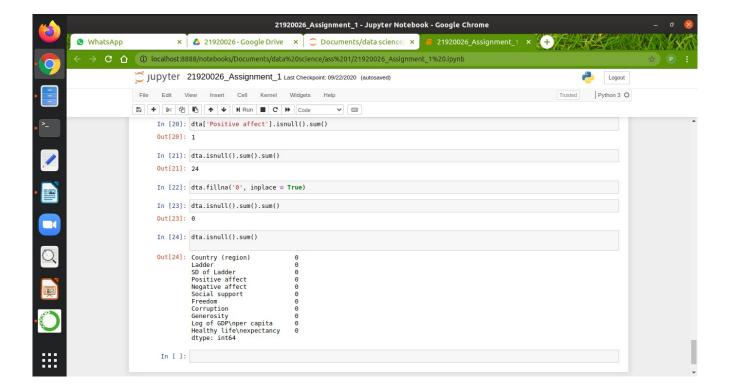












Description:

- As shown in above images by using python read_csv() dataset is accessed.
- By using python indexing and selecting various slicing operations are performed.
- Int64, float64, object is datatypes are there for columns.
- By using python fillna() and isnull() are used for recognizing null entries in dataset.

Interpretation:

- There are 156 entries in dataset and finland is happiest country in world.
- There is 24 null values in dataset that are filled with 0 by using fillna().