Python Tutorial 5: Pandas

PART 1: BASICS

1. Creating dataframes  
   A. From an ndarray

B. From a dictionary of lists

2. Exploring your dataframe

A. info()

B. describe()

C. value\_counts()

d. Dateframe attributes

1. Indexing, subsetting and slicing
   1. Setting an index
   2. Selecting a column or columns
   3. Selection based in integer location df.iloc()
   4. Selection based on label names df.loc()
      1. Selecting rows
      2. Selecting columns
      3. Selecting rows and columns
   5. Boolean Masks
2. Creating new columns using mathematical operations
3. Dropping columns and rows

PART 2: A more complicated dataset

1. Importing Data
2. Exploring the dataset
   1. df.head()
   2. df.tail()
   3. df.sample()
   4. using info and value counts
3. Cleaning the data
   1. Changing column names
   2. Extracting data from strings in a column
   3. Creating Boolean Variables
   4. Creating Rankings from text
4. Grouping with groupby