

- Create a pandas series with some random numbers and texts and some null values.
 - Add some data to your series
 - Change data type to integer
 - Remove the null values
 - Sort the index of your series alphabetically
 - Count the occurrences of unique items of the series
 - Sort the given series in descending order
- Create a dataframe having 5 columns and 50 random data
 - Retrieve the data from index 30-40 with the first 3 columns (Note: Use column index only)
 - Retrieve last 10 rows of 2nd and 5th columns (Note: Use column name only)
 - Retrieve 1st and 5th column with some condition applied to 2nd column (Condition Example: all rows having value greater than x).
 - Sample some of the data from the 1st column into a list and add some additional random data in it. Filter the dataframe and retrieve only those rows if 1st column contains the sampled data (Explore 'isin')
 - Update the value of the 1st and 3rd column with new values in the 35th index of row
 - Delete the row of the index position: 35, 39, 51. And reindex the dataframe
- Create two dataframe (first dataframe having 50 random data and second dataframe having 40 random data). Each dataframe should have 3 columns including a common column (example: id) and 90% of data in common column should have identical data
 - Merge both the dataframe using:
 - Inner
 - Outer
 - Left
 - Right
 - Evaluate the differences observed
 - Use join() to combine the dataframe
 - Use concat to combine the dataframe
 - Evaluate the differences observed between merge, join and concat
- Create a dataframe having 3 columns: name, nationality, age and perform:
 - Use filter() to get all data of column name and age
 - Retrieve all the data of the column starting with "na"
 - Retrieve all the data of the column ending with "e"
 - Retrieve all the data of the column having subset "am" (hint: explore 'like' in filter())
- Use this [dataset](#) and perform the following tasks:
 - Read the dataset as pandas dataframe
 - Filter the Country_Region whose value == "India" and assign it in dataframe df_india.
 - Retrieve the active cases of "Madhya Pradesh" Province from df_india.

- Retrieve the state with the maximum number of confirmed cases from `df_india`.
- Filter the `Country_Region` whose value == "Canada" and assign it in dataframe `df_canada`.
 - Province/State `Diamond Princess` has the "NaN" value for Active number of cases. Fill it with the median of the Active cases.
- Filter the `Country_Region` whose value == "US" and assign it in dataframe `df_us`.
 - Groupby the `df_us` dataframe by 'State_Province' and aggregate with maximum values of the attributes and assign it in `df_us_states`.
 - Re-index the dataframe `df_us_states`.
 - The United States has 50 states. `df_us_states` contains additional states which are not the states of the United States. Remove those additional states from the dataframe.
 - Which state has the minimum number of active cases?
- Find the number of cases for each country