

REPORT

Lab5.Pandas Concatenate, Merge and Join

In this lab, I have practiced on how to - concatenate two data frames - append a data frame to another existing data frame - merge two data frames - join two data frames using various SQL style join operations.

First, import library such as pandas, seaborn, matplotlib load "north_america_2000_2010.csv" and "south_america_2000_2010.csv" then show dataset and Line Plot.

Concatenate both north_america and south_america in "americas" then show it

Load "america_2011.csv", "america_2012.csv", "america_2013.csv", "america_2014.csv" & "america_2015.csv". and join all these data frames as temp together.

Then, join "temp" with "americas" and name index as "country" And plot line graph. Load "asia_2000_2015.csv", "europe_2000_2015.csv", "south_pacific_2000_2015.csv". then, concatenate above three dataset as "world" dataset and plot line graph.

Load "historical.csv" and show head, shape then merge it with "world" as "world_historical" on "country" index.

Join both “world”, “historical” as “world _ historical” and arrange then plot line graph. Find country worked more and least by averaging “world_historical”.