Introduction

This play talks about indexing and slicing in a python dataframe. “Indexing” means referring to an element of an iterable by its position within the iterable. “Slicing” means getting a subset of elements from an iterable based on their indices. Learning specially about subsetting is the key to exploratory data analysis and feature engineering, also preprocessing.

Objective

This play covers selection using iloc, loc, ix, at, iat also column selection based on dtypes and regex filter, changing order of columns. Also unconventional ways like getloc and index. Use the boston dataset csv given in the folder to try all indexing and slicing techniques. Refer to the link under subsetting data using criteria

1. How to Select Rows of Pandas Dataframe Based on a Single Value of a Column?
2. How To Filter rows using Pandas chaining?(example show eq method you can try with other functions too)
3. How to Select Rows of Pandas Dataframe Whose Column Value Does NOT Equal a Specific Value?(Could be used for <=, <, >, >=, !=, ==)
4. How to Select Rows of Pandas Dataframe Whose Column Value is NOT NA/NAN?
5. How to Select Rows of Pandas Dataframe Based on a list?
6. How to Select Rows of Pandas Dataframe Based on Values NOT in a list?
7. How to Select Rows of Pandas Dataframe using Multiple Conditions?(Use of &, you may also try with |)

Endpoint

After finishing this play you’ll get very well versed with various techniques of indexing and slicing in pandas dataframe.