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HISTORY

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How to perform an outer left join on multiple pandas Dataframes in Python

An outer left join is a method of combining two tables that have some shared information. It takes all of the rows in the leftmost or first table and checks to see if the information in one of its columns matches a column in the second table. If there is a match, the row in the second table is merged with the row from the first table. If there is no match, those empty column spaces are filled with a NaN value.

USE pandas.merge() TO PERFORM AN OUTER LEFT JOIN

Call <u>pandas.merge(left_df, right_df, how, on)</u> with left_df and right_df as the left and right <u>DataFrames</u>, how as how=left to specify a left join, and on as on=column_names where column_names is a lift of one or multiple columns to be checked for equal values in each <u>DataFrame</u>. This returns a left outer joined table, which can be done repeatedly to join together more <u>DataFrames</u>.

```
print(left_df)
OUTPUT
    fruit count
 0
    apple
                2
 1
   banana
                3
    orange
               2
 3
      pear
               1
    melon
print(right_df)
OUTPUT
        fruit price
 0
                2.75
       banana
 1
        melon
                4.31
 2
       orange
                1.35
   strawberry
                3.57
merged_df = pd.merge(left_df, right_df, how='left', on=['fru
print(merged_df)
OUTPUT
    fruit count price
 0
               1
                    NaN
    apple
                    2.75
 1
   banana
 2
               3
                   1.35
    orange
 3
     pear
               2
                    NaN
    melon
                   4.31
```

```
import os
import osy

import sys

def count_py_files_in_repos(dirn
if os.path.exists(os.path.jo
count = 0
for root, dirs, files in
count = len([])

for f in fi
```

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