

```
In [1]: import pandas as pd
In [2]: df = pd.read_csv('samplecsv.csv')
In [3]: df
Out[3]:
   Year  Industry_aggregation_NZSIOC  Industry_code_NZSIOC  Industry_name_NZSIOC  Units  Variable_code  Variable_name  Variable_category  Value  Industry_code_ANZSIC06
0  2020                               Level 1              99999             All industries  Dollars (millions)  H01      Total income      Financial performance      733.258  ANZSIC06 divisions A-S (excluding classes K633...
1  2020                               Level 1              99999             All industries  Dollars (millions)  H04      Sales, government funding, grants and subsidies      Financial performance      660.630  ANZSIC06 divisions A-S (excluding classes K633...
2  2020                               Level 1              99999             All industries  Dollars (millions)  H05      Interest, dividends and donations      Financial performance      54.342  ANZSIC06 divisions A-S (excluding classes K633...
3  2020                               Level 1              99999             All industries  Dollars (millions)  H07      Non-operating income      Financial performance      18.285  ANZSIC06 divisions A-S (excluding classes K633...
4  2020                               Level 1              99999             All industries  Dollars (millions)  H08      Total expenditure      Financial performance      654.872  ANZSIC06 divisions A-S (excluding classes K633...
...  ...                               ...                ...                ...                ...  ...  ...                ...                ...  ...
37075  2013                             Level 3                ZZ11             Food product manufacturing  Percentage  H37      Quick ratio      Financial ratios      52  ANZSIC06 groups C111, C112, C113, C114, C115, ...
37076  2013                             Level 3                ZZ11             Food product manufacturing  Percentage  H38      Margin on sales of goods for resale      Financial ratios      40  ANZSIC06 groups C111, C112, C113, C114, C115, ...
37077  2013                             Level 3                ZZ11             Food product manufacturing  Percentage  H39      Return on equity      Financial ratios      12  ANZSIC06 groups C111, C112, C113, C114, C115, ...
37078  2013                             Level 3                ZZ11             Food product manufacturing  Percentage  H40      Return on total assets      Financial ratios      5  ANZSIC06 groups C111, C112, C113, C114, C115, ...
37079  2013                             Level 3                ZZ11             Food product manufacturing  Percentage  H41      Liabilities structure      Financial ratios      46  ANZSIC06 groups C111, C112, C113, C114, C115, ...
37080 rows x 10 columns
In [5]: df=df.loc[0:5]
df
Out[5]:
   Year  Industry_aggregation_NZSIOC  Industry_code_NZSIOC  Industry_name_NZSIOC  Units  Variable_code  Variable_name  Variable_category  Value  Industry_code_ANZSIC06
0  2020                               Level 1              99999             All industries  Dollars (millions)  H01      Total income      Financial performance      733.258  ANZSIC06 divisions A-S (excluding classes K633...
1  2020                               Level 1              99999             All industries  Dollars (millions)  H04      Sales, government funding, grants and subsidies      Financial performance      660.630  ANZSIC06 divisions A-S (excluding classes K633...
2  2020                               Level 1              99999             All industries  Dollars (millions)  H05      Interest, dividends and donations      Financial performance      54.342  ANZSIC06 divisions A-S (excluding classes K633...
3  2020                               Level 1              99999             All industries  Dollars (millions)  H07      Non-operating income      Financial performance      18.285  ANZSIC06 divisions A-S (excluding classes K633...
4  2020                               Level 1              99999             All industries  Dollars (millions)  H08      Total expenditure      Financial performance      654.872  ANZSIC06 divisions A-S (excluding classes K633...
5  2020                               Level 1              99999             All industries  Dollars (millions)  H09      Interest and donations      Financial performance      32.730  ANZSIC06 divisions A-S (excluding classes K633...
In [9]: df.loc[6]=[2020,'level2',99999,'industry','dollars','H10','interest','fin',4000,'ANZI']
df
C:\Users\User\AppData\Local\Temp\ipykernel_13952\1810392945.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
df.loc[6]=[2020,'level2',99999,'industry','dollars','H10','interest','fin',4000,'ANZI']
Out[9]:
   Year  Industry_aggregation_NZSIOC  Industry_code_NZSIOC  Industry_name_NZSIOC  Units  Variable_code  Variable_name  Variable_category  Value  Industry_code_ANZSIC06
0  2020                               Level 1              99999             All industries  Dollars (millions)  H01      Total income      Financial performance      733.258  ANZSIC06 divisions A-S (excluding classes K633...
1  2020                               Level 1              99999             All industries  Dollars (millions)  H04      Sales, government funding, grants and subsidies      Financial performance      660.630  ANZSIC06 divisions A-S (excluding classes K633...
2  2020                               Level 1              99999             All industries  Dollars (millions)  H05      Interest, dividends and donations      Financial performance      54.342  ANZSIC06 divisions A-S (excluding classes K633...
3  2020                               Level 1              99999             All industries  Dollars (millions)  H07      Non-operating income      Financial performance      18.285  ANZSIC06 divisions A-S (excluding classes K633...
4  2020                               Level 1              99999             All industries  Dollars (millions)  H08      Total expenditure      Financial performance      654.872  ANZSIC06 divisions A-S (excluding classes K633...
5  2020                               Level 1              99999             All industries  Dollars (millions)  H09      Interest and donations      Financial performance      32.730  ANZSIC06 divisions A-S (excluding classes K633...
6  2020                               level2              99999             industry  dollars  H10      interest      fin      4000  ANZI
In [10]: df.drop(2, axis=0, inplace=True)
df
C:\Users\User\AppData\Local\Temp\ipykernel_13952\1847218600.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
df.drop(2, axis=0, inplace=True)
Out[10]:
   Year  Industry_aggregation_NZSIOC  Industry_code_NZSIOC  Industry_name_NZSIOC  Units  Variable_code  Variable_name  Variable_category  Value  Industry_code_ANZSIC06
0  2020                               Level 1              99999             All industries  Dollars (millions)  H01      Total income      Financial performance      733.258  ANZSIC06 divisions A-S (excluding classes K633...
1  2020                               Level 1              99999             All industries  Dollars (millions)  H04      Sales, government funding, grants and subsidies      Financial performance      660.630  ANZSIC06 divisions A-S (excluding classes K633...
3  2020                               Level 1              99999             All industries  Dollars (millions)  H07      Non-operating income      Financial performance      18.285  ANZSIC06 divisions A-S (excluding classes K633...
4  2020                               Level 1              99999             All industries  Dollars (millions)  H08      Total expenditure      Financial performance      654.872  ANZSIC06 divisions A-S (excluding classes K633...
5  2020                               Level 1              99999             All industries  Dollars (millions)  H09      Interest and donations      Financial performance      32.730  ANZSIC06 divisions A-S (excluding classes K633...
6  2020                               level2              99999             industry  dollars  H10      interest      fin      4000  ANZI
In [12]: df['revenue']=['A','B','C','D','E','F']
df
C:\Users\User\AppData\Local\Temp\ipykernel_13952\2006295399.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
df['revenue']=['A','B','C','D','E','F']
Out[12]:
   Year  Industry_aggregation_NZSIOC  Industry_code_NZSIOC  Industry_name_NZSIOC  Units  Variable_code  Variable_name  Variable_category  Value  Industry_code_ANZSIC06  revenue
0  2020                               Level 1              99999             All industries  Dollars (millions)  H01      Total income      Financial performance      733.258  ANZSIC06 divisions A-S (excluding classes K633...  A
1  2020                               Level 1              99999             All industries  Dollars (millions)  H04      Sales, government funding, grants and subsidies      Financial performance      660.630  ANZSIC06 divisions A-S (excluding classes K633...  B
3  2020                               Level 1              99999             All industries  Dollars (millions)  H07      Non-operating income      Financial performance      18.285  ANZSIC06 divisions A-S (excluding classes K633...  C
4  2020                               Level 1              99999             All industries  Dollars (millions)  H08      Total expenditure      Financial performance      654.872  ANZSIC06 divisions A-S (excluding classes K633...  D
5  2020                               Level 1              99999             All industries  Dollars (millions)  H09      Interest and donations      Financial performance      32.730  ANZSIC06 divisions A-S (excluding classes K633...  E
6  2020                               level2              99999             industry  dollars  H10      interest      fin      4000  ANZI  F
In [17]: df.drop('revenue', axis=1, inplace=True)
df
C:\Users\User\AppData\Local\Temp\ipykernel_13952\885863201.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
df.drop('revenue', axis=1, inplace=True)
Out[17]:
   Year  Industry_aggregation_NZSIOC  Industry_code_NZSIOC  Industry_name_NZSIOC  Units  Variable_code  Variable_name  Variable_category  Value  Industry_code_ANZSIC06
0  2020                               Level 1              99999             All industries  Dollars (millions)  H01      Total income      Financial performance      733.258  ANZSIC06 divisions A-S (excluding classes K633...
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3  2020                               Level 1              99999             All industries  Dollars (millions)  H07      Non-operating income      Financial performance      18.285  ANZSIC06 divisions A-S (excluding classes K633...
4  2020                               Level 1              99999             All industries  Dollars (millions)  H08      Total expenditure      Financial performance      654.872  ANZSIC06 divisions A-S (excluding classes K633...
5  2020                               Level 1              99999             All industries  Dollars (millions)  H09      Interest and donations      Financial performance      32.730  ANZSIC06 divisions A-S (excluding classes K633...
6  2020                               level2              99999             industry  dollars  H10      interest      fin      4000  ANZI
In [19]: df.sort_values(by='Value')
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TypeError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_13952\3957653270.py in <module>
----> 1 df.sort_values(by='Value')

~\AppData\Local\Programs\Python\Python310\lib\site-packages\pandas\util\decorators.py in wrapper(*args, **kwargs)
    309         stacklevel=stacklevel,
    310     )
--> 311     return func(*args, **kwargs)
    312
    313     return wrapper

~\AppData\Local\Programs\Python\Python310\lib\site-packages\pandas\core\frame.py in sort_values(self, by, axis, ascending, inplace, kind, na_position, ignore_index, key)
    6324         ascending = ascending[0]
    6325
-> 6326         indexer = nargsort(
    6327             k, kind=kind, ascending=ascending, na_position=na_position, key=key
    6328         )

~\AppData\Local\Programs\Python\Python310\lib\site-packages\pandas\core\sorting.py in nargsort(items, kind, ascending, na_position, key, mask)
    409     non_nans = non_nans[::1]
    410     non_nan_idx = non_nan_idx[::1]
--> 411     indexer = non_nan_idx[non_nans.argsort(kind=kind)]
    412     if not ascending:
    413         indexer = indexer[::-
```