THIS SET OF 18 PANDAS FUNCTIONS WILL GET YOU 80% OF THE WAY THERE



```
import pandas as pd
file = "file.csv"
# Reading CSV
df = pd.read_csv(file)
# Changing Delimiter
symbol = "|"
df = pd.read_csv(file, sep = symbol)
```



```
import pandas as pd
file = "file.csv"
# Saving CSV
df.to_csv(file)
# Changing Delimiter while saving
symbol = "|"
df.to_csv(file, sep = symbol)
```



```
import pandas as pd
data = [[1,2,3],
        [4,5,6]]
df = pd.DataFrame(data,
            columns = ["A", "B", "C"])
1111111
0 1 2 3
1 4 5 6
1111111
```



DataFrame from dictionary

```
import pandas as pd
data = \{ "A" : [1,2], "B" : [3,4] \}
df = pd.DataFrame(data)
1111111
  A B
1 2 4
11 11 11
```



```
import pandas as pd
df1 = pd.DataFrame([[1,"A"],
                   [2,"B"]],
                  columns = ["col1", "col2"])
df2 = pd.DataFrame([["A", 3],
                   ["B", 4]],
                  columns = ["col2", "col3"])
pd.merge(df1, df2, on = "col2", how = "inner")
1111111
   col1 col2 col3
0 1 A 3
1 2 B 4
1111111
```





```
import pandas as pd
df = pd.DataFrame([[2,"A"],
                    [3,"B"],
                    [1,"C"]],
                    columns = ["col1", "col2"])
df.sort_values(by = "col1")
1111111
    col1 col2
0 2 A
1111111
```



```
import pandas as pd
df1 = pd.DataFrame([[1,"A"],
                   [2,"B"]],
                  columns = ["col1", "col2"])
df2 = pd.DataFrame([["A", 3],
                   ["B", 4]],
                  columns = ["col3", "col4"])
pd.concat((df1, df2), axis = 1)
1111111
   col1 col2 col3 col4
0 1 A A 3
1 2 B B 4
1111111
```

```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                    [2,"B"]],
                   columns = ["col1", "col2"])
df.rename(columns = {"col1":"col3",
                      "col2":"col4"})
1111111
    col3 col4
 1 A
1111111
```

```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                     [2,"B"]],
                    columns = ["col1", "col2"])
df["col3"] = df["col1"] + 2
111111
    col1 col2 col3
11 11 11
```

```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                   [2,"B"],
                   [2,"A"],
                   [3,"C"]],
                   columns = ["col1", "col2"])
filter_list = [1,2]
df[df.col1.isin(filter_list)]
11 11 11
col1 col2
0 1 A
1 2 B
2 2 A
11 11 11
```

```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                    [2,"B"],
                    [2,"A"],
                    [3,"C"]],
                    columns = ["col1", "col2"])
df[df.col1 > 1]
1111111
col1 col2
2 2 A
1111111
```



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```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                    [2,"B"]],
                   columns = ["col1", "col2"])
df.drop(columns = ["col2"])
пип
    col1
```

```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                    [2,"B"],
                    [3,"A"],
                    [4,"C"]],
                    columns = ["col1", "col2"])
df.groupby("col2").col1.sum()
1111111
    col2
   4
С
1111111
```



```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                      [2,"B"],
                      [3,"A"],
                      [4,"C"]],
                      columns = ["col1", "col2"])
df.col2.unique()
1111111
['A', 'B', 'C']
11 11 11
df.col2.nunique()
1111111
3
1111111
```

```
import pandas as pd
import numpy as np
df = pd.DataFrame([[1, "A"],
                   [2, np.nan],
                   [3, np.nan]],
                   columns = ["col1", "col2"])
df.col2.fillna("B", inplace = True)
1111111
    col1 col2
0 1 A
1 2 B
1111111
```

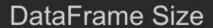
```
import pandas as pd
def f(number):
 return number + 2
df = pd.DataFrame([[1,"A"],
                  [2,"B"]],
                  columns = ["col1", "col2"])
df["col3"] = df.col1.apply(f)
1111111
   col1 col2 col3
0 1 A 3
1 2 B 4
1111111
```



```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                   [2,"B"],
                   [1,"A"]],
                   columns = ["col1", "col2"])
df.drop_duplicates()
пии
    col1 col2
0 1 A
нии
```



```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                    [2,"B"],
                    [2,"A"],
                    [3,"C"]],
                    columns = ["col1", "col2"])
df.col2.value_counts()
1111111
A 2
B 1
1111111
```



HHH

```
import pandas as pd
df = pd.DataFrame([[1,"A"],
                    [2,"B"],
                    [2,"A"],
                    [3,"C"]],
                    columns = ["col1", "col2"])
df.shape
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(4,2)
```