Cheatography

Python Cheat Sheet

by InfinityCliff via cheatography.com/79806/cs/19308/

Creating a Dataframe (copy)

`df = pd.DataFrame()`	Empty DataFrame

Pandas DataFrame

Merge [...]

```
df = pd.merge(left=left_df, right=right_df, on='FIELD', validate='m:m')
```

Select Rows based on column value

```
df.loc[df['column_name'] == some_value]
df[(df.field1 cond1) & (df.field2 cond2)]
```

Sort (by specified Field)

```
df.sort_values('FIELD')
```

Fill a column with value

```
df['A'] = 'foo'
```

Reset Index

```
df.reset_index(inplace=True)
```

Extract [month, date, hour, etc] from datetime column

```
df['NEW_FIELD'] = df['dt_FIELD'].dt.<value>
```

value=month, date, hour

Set Index

```
df.set_index(keys, drop=True, append=False, inplace=False, verify_integrity=False)
```

Documentation:
http://pandas.pydata.org/pandas-docs/stable/

[...]

pandas Functions

len(df)	Number of rows in DataFrame	
df.dtypes	Data type of each column	
df.columns	DataFrame column names	list of str
df.count()	Number of values in each column	
df.sum()	Sum of values in each column	
df.min()	Minimum value in each column	
df.max()	Maximum value in each column	
df.mean()	Mean value in each column	

Replace df with df["Column Name"] or an equivalent variable to use these functions for a single column or set of selected values.

Reading and writing data

Excel

```
df = pd.read_excel('file.xlsx', sheet_name= 'sheet name') [...]
df.to_excel('file.xlsx', sheet_name='sheet name' [...]
```

Excel multi sheets

```
with pd.ExcelWriter('path_to_file.xlsx') as writer:
  df1.to_excel(writer, sheet_name='Sheet1')
  df2.to_excel(writer, sheet_name='Sheet2')
```

pickle

```
df = pd.read_pickle('file.pickle') [...]
df.to_pickle('file.pickle') [...]
```

csv

```
df = pd.read_csv('file.csv') [...]
```

[...]

Class Property Ddecorators

```
@property
def val(self):
    return self._val
@val.setter
def temperature(self, value):
    self._val = value
```

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