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Pandas - DataFrame Reference

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All properties and methods of the DataFrame object, with explanations and examples:

Property/Method	Description
<u>abs()</u>	Return a DataFrame with the absolute value of each value
<u>add()</u>	Adds the values of a DataFrame with the specified value(s)
add_prefix()	Prefix all labels
add_suffix()	Suffix all labels
<u>agg()</u>	Apply a function or a function name to one of the axis of the DataFrame
<u>aggregate()</u>	Apply a function or a function name to one of the axis of the DataFrame
align()	Aligns two DataFrames with a specified join method
<u>all()</u>	Return True if all values in the DataFrame are True, otherwise False
<u>any()</u>	Returns True if any of the values in the DataFrame are True, otherwise False
<u>append()</u>	Append new columns
<u>applymap()</u>	Execute a function for each element in the DataFrame
<u>apply()</u>	Apply a function to one of the axis of the DataFrame
<u>assign()</u>	Assign new columns
<u>astype()</u>	Convert the DataFrame into a specified dtype
<u>at</u>	Get or set the value of the item with the specified label

<u>axes</u>	Returns the labels of the rows and the columns of the DataFrame
<u>bfill()</u>	Replaces NULL values with the value from the next row
<u>bool()</u>	Returns the Boolean value of the DataFrame
<u>columns</u>	Returns the column labels of the DataFrame
<u>combine()</u>	Compare the values in two DataFrames, and let a function decide which values to keep
combine_first()	Compare two DataFrames, and if the first DataFrame has a NULL value, it will be filled with the respective value from the second DataFrame
compare()	Compare two DataFrames and return the differences
<u>convert_dtypes()</u>	Converts the columns in the DataFrame into new dtypes
<u>corr()</u> .	Find the correlation (relationship) between each column
<u>count()</u>	Returns the number of not empty cells for each column/row
<u>cov()</u>	Find the covariance of the columns
<u>copy()</u>	Returns a copy of the DataFrame
<u>cummax()</u>	Calculate the cumulative maximum values of the DataFrame
<u>cummin()</u>	Calculate the cumulative minmum values of the DataFrame
<u>cumprod()</u>	Calculate the cumulative product over the DataFrame
<u>cumsum()</u>	Calculate the cumulative sum over the DataFrame
<u>describe()</u>	Returns a description summary for each column in the DataFrame
<u>diff()</u>	Calculate the difference between a value and the value of the same column in the previous row
<u>div()</u>	Divides the values of a DataFrame with the specified value(s)
<u>dot()</u>	Multiplies the values of a DataFrame with values from another array-like object, and add the result
<u>drop()</u>	Drops the specified rows/columns from the DataFrame
<u>drop_duplicates()</u>	Drops duplicate values from the DataFrame

<u>droplevel()</u>	Drops the specified index/column(s)
<u>dropna()</u>	Drops all rows that contains NULL values
dtypes	Returns the dtypes of the columns of the DataFrame
<u>duplicated()</u>	Returns True for duplicated rows, otherwise False
<u>empty</u>	Returns True if the DataFrame is empty, otherwise False
<u>eq()</u>	Returns True for values that are equal to the specified value(s), otherwise False
<u>equals()</u>	Returns True if two DataFrames are equal, otherwise False
<u>eval</u>	Evaluate a specified string
<u>explode()</u>	Converts each element into a row
ffill().	Replaces NULL values with the value from the previous row
<u>fillna()</u>	Replaces NULL values with the specified value
<u>filter()</u>	Filter the DataFrame according to the specified filter
<u>first()</u>	Returns the first rows of a specified date selection
<u>floordiv()</u>	Divides the values of a DataFrame with the specified value(s), and floor the values
<u>ge()</u>	Returns True for values greater than, or equal to the specified value(s), otherwise False
<u>get()</u>	Returns the item of the specified key
groupby()	Groups the rows/columns into specified groups
<u>gt().</u>	Returns True for values greater than the specified value(s), otherwise False
<u>head()</u>	Returns the header row and the first 10 rows, or the specified number of rows
<u>iat</u>	Get or set the value of the item in the specified position
<u>idxmax()</u>	Returns the label of the max value in the specified axis
<u>idxmin()</u>	Returns the label of the min value in the specified axis
iloc	Get or set the values of a group of elements in the specified positions

index	Returns the row labels of the DataFrame
infer_objects()	Change the dtype of the columns in the DataFrame
info()	Prints information about the DataFrame
<u>insert()</u>	Insert a column in the DataFrame
<u>interpolate()</u>	Replaces not-a-number values with the interpolated method
<u>isin()</u>	Returns True if each elements in the DataFrame is in the specified value
<u>isna()</u>	Finds not-a-number values
<u>isnull()</u>	Finds NULL values
<u>items()</u>	Iterate over the columns of the DataFrame
<u>iteritems()</u>	Iterate over the columns of the DataFrame
<u>iterrows()</u>	Iterate over the rows of the DataFrame
<u>itertuples()</u>	Iterate over the rows as named tuples
j <u>oin()</u>	Join columns of another DataFrame
<u>last()</u>	Returns the last rows of a specified date selection
<u>le()</u>	Returns True for values less than, or equal to the specified value(s), otherwise False
loc	Get or set the value of a group of elements specified using their labels
<u>lt()</u>	Returns True for values less than the specified value(s), otherwise False
<u>keys()</u>	Returns the keys of the info axis
kurtosis()	Returns the kurtosis of the values in the specified axis
mask()	Replace all values where the specified condition is True
<u>max()</u>	Return the max of the values in the specified axis
mean()	Return the mean of the values in the specified axis
median()	Return the median of the values in the specified axis
<u>melt()</u>	Reshape the DataFrame from a wide table to a long table

memory_usage()	Returns the memory usage of each column
merge()	Merge DataFrame objects
<u>min()</u> .	Returns the min of the values in the specified axis
<u>mod()</u>	Modules (find the remainder) of the values of a DataFrame
mode()	Returns the mode of the values in the specified axis
<u>mul()</u>	Multiplies the values of a DataFrame with the specified value(s)
<u>ndim</u>	Returns the number of dimensions of the DataFrame
<u>ne()</u> .	Returns True for values that are not equal to the specified value(s), otherwise False
<u>nlargest()</u>	Sort the DataFrame by the specified columns, descending, and return the specified number of rows
<u>notna()</u>	Finds values that are not not-a-number
notnull()	Finds values that are not NULL
<u>nsmallest()</u>	Sort the DataFrame by the specified columns, ascending, and return the specified number of rows
<u>nunique()</u>	Returns the number of unique values in the specified axis
<u>pct_change()</u>	Returns the percentage change between the previous and the current value
<u>pipe()</u>	Apply a function to the DataFrame
pivot()	Re-shape the DataFrame
pivot_table()	Create a spreadsheet pivot table as a DataFrame
<u>pop()</u>	Removes an element from the DataFrame
<u>pow()</u>	Raise the values of one DataFrame to the values of another DataFrame
<u>prod()</u>	Returns the product of all values in the specified axis
<u>product()</u>	Returns the product of the values in the specified axis
<u>quantile()</u>	Returns the values at the specified quantile of the specified axis

<u>query()</u>	Query the DataFrame
<u>radd()</u>	Reverse-adds the values of one DataFrame with the values of another DataFrame
<u>rdiv()</u>	Reverse-divides the values of one DataFrame with the values of another DataFrame
<u>reindex()</u>	Change the labels of the DataFrame
reindex_like()	??
<u>rename()</u>	Change the labels of the axes
rename_axis()	Change the name of the axis
reorder_levels()	Re-order the index levels
<u>replace()</u>	Replace the specified values
reset_index()	Reset the index
<u>rfloordiv()</u>	Reverse-divides the values of one DataFrame with the values of another DataFrame
<u>rmod()</u>	Reverse-modules the values of one DataFrame to the values of another DataFrame
<u>rmul()</u>	Reverse-multiplies the values of one DataFrame with the values of another DataFrame
<u>round()</u>	Returns a DataFrame with all values rounded into the specified format
<u>rpow()</u>	Reverse-raises the values of one DataFrame up to the values of another DataFrame
<u>rsub()</u>	Reverse-subtracts the values of one DataFrame to the values of another DataFrame
<u>rtruediv()</u>	Reverse-divides the values of one DataFrame with the values of another DataFrame
sample()	Returns a random selection elements
<u>sem()</u>	Returns the standard error of the mean in the specified axis
select dtypes()	Returns a DataFrame with columns of selected data types
<u>shape</u>	Returns the number of rows and columns of the DataFrame

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set_axis()	Sets the index of the specified axis
set_flags()	Returns a new DataFrame with the specified flags
set_index()	Set the Index of the DataFrame
size	Returns the number of elements in the DataFrame
<u>skew()</u>	Returns the skew of the values in the specified axis
sort_index()	Sorts the DataFrame according to the labels
sort_values()	Sorts the DataFrame according to the values
squeeze()	Converts a single column DataFrame into a Series
<u>stack()</u>	Reshape the DataFrame from a wide table to a long table
<u>std()</u>	Returns the standard deviation of the values in the specified axis
<u>sum()</u>	Returns the sum of the values in the specified axis
<u>sub()</u>	Subtracts the values of a DataFrame with the specified value(s)
swaplevel()	Swaps the two specified levels
I	Turns rows into columns and columns into rows
<u>tail()</u>	Returns the headers and the last rows
<u>take()</u>	Returns the specified elements
to_xarray()	Returns an xarray object
<u>transform()</u>	Execute a function for each value in the DataFrame
<u>transpose()</u>	Turns rows into columns and columns into rows
<u>truediv()</u>	Divides the values of a DataFrame with the specified value(s)
<u>truncate()</u>	Removes elements outside of a specified set of values
<u>update()</u>	Update one DataFrame with the values from another DataFrame
value_counts()	Returns the number of unique rows
<u>values</u>	Returns the DataFrame as a NumPy array
var() www.w3schools.com/python/pandas	Returns the variance of the values in the specified axis

where()	Replace all values where the specified condition is False
<u>xs()</u>	Returns the cross-section of the DataFrame
<u>iter ()</u>	Returns an iterator of the info axes

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