

How do you create a date range in pandas?

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Creating a date range in pandas involves using the `pd.date_range()` function. This function allows you to specify a start date, end date, and frequency (such as daily, weekly, or monthly) to generate a range of dates within that timeframe. The resulting date range can be used for various operations and analysis within a pandas dataframe.

Create a Date Range in Pandas (3 Examples)

You can use the `pandas.date_range()` function to create a date range in pandas.

This function uses the following basic syntax:

```
pandas.date_range(start, end, periods, freq, ...)
```

where:

start: The start date
end: The end date
periods: The number of periods to generate
freq: The frequency to use (refer to for frequency aliases)

The following examples show how to use this function in practice.

Example 1: Create Date Range with Individual Days

The following code shows how to create a date range composed of individual days with a specific start and end date:

```
import pandas as pd

#create 10-day date range
pd.date_range(start='1/1/2020', end='1/10/2020')

DatetimeIndex(,
dtype='datetime64', freq='D')
```

The result is a list of 10 days that range from the specified start date to the specified end date.

Example 2: Create Date Range with Specific Number of Periods

The following code shows how to create a date range that has a specific number of equally-spaced periods between a certain start and end date:

```
import pandas as pd

#create 10-day date range with 3 equally-spaced
periods
pd.date_range(start='1/1/2020', end='1/10/2020',
periods=3)

DatetimeIndex(,
dtype='datetime64', freq=None)
```

The result is a list of 3 equally-spaced days that range from the specified start date to the specified end date.

Example 3: Create Date Range with Specific Frequency

The following code shows how to create a date range that starts on a specific date and has a frequency of six month start dates:

```
import pandas as pd

#create date range with six month start dates
pd.date_range(start='1/1/2020', freq='MS', periods=6)

DatetimeIndex(,
dtype='datetime64', freq='MS')
```

The following code shows how to create a date range that starts on a specific date and has a yearly frequency:

```
import pandas as pd

#create date range with six consecutive years
pd.date_range(start='1/1/2020', freq='YS', periods=6)

DatetimeIndex(,
```

```
dtype='datetime64', freq='AS-JAN')
```

The result is a list of six dates that are each one year apart.

Note: You can find the complete online documentation for the `pd.date_range()` function .

Additional Resources

The following tutorials explain how to perform other common operations with dates in pandas: