Resample rule

<http://pandas.pydata.org/pandas-docs/stable/user_guide/timeseries.html>

| **Alias** | **Description** |
| --- | --- |
| **B** | **business day frequency** |
| **C** | **custom business day frequency** |
| **D** | **calendar day frequency** |
| **W** | **weekly frequency** |
| **M** | **month end frequency** |
| **SM** | **semi-month end frequency (15th and end of month)** |
| **BM** | **business month end frequency** |
| **CBM** | **custom business month end frequency** |
| **MS** | **month start frequency** |
| **SMS** | **semi-month start frequency (1st and 15th)** |
| **BMS** | **business month start frequency** |
| **CBMS** | **custom business month start frequency** |
| **Q** | **quarter end frequency** |
| **BQ** | **business quarter end frequency** |
| **QS** | **quarter start frequency** |
| **BQS** | **business quarter start frequency** |
| **A, Y** | **year end frequency** |
| **BA, BY** | **business year end frequency** |
| **AS, YS** | **year start frequency** |
| **BAS, BYS** | **business year start frequency** |
| **BH** | **business hour frequency** |
| **H** | **hourly frequency** |
| **T, min** | **minutely frequency** |
| **S** | **secondly frequency** |
| **L, ms** | **milliseconds** |
| **U, us** | **microseconds** |
| **N** | **nanoseconds** |

| **Alias** | **Description** |
| --- | --- |
| **W-SUN** | **weekly frequency (Sundays). Same as ‘W’** |
| **W-MON** | **weekly frequency (Mondays)** |
| **W-TUE** | **weekly frequency (Tuesdays)** |
| **W-WED** | **weekly frequency (Wednesdays)** |
| **W-THU** | **weekly frequency (Thursdays)** |
| **W-FRI** | **weekly frequency (Fridays)** |
| **W-SAT** | **weekly frequency (Saturdays)** |
| **(B)Q(S)-DEC** | **quarterly frequency, year ends in December. Same as ‘Q’** |
| **(B)Q(S)-JAN** | **quarterly frequency, year ends in January** |
| **(B)Q(S)-FEB** | **quarterly frequency, year ends in February** |
| **(B)Q(S)-MAR** | **quarterly frequency, year ends in March** |
| **(B)Q(S)-APR** | **quarterly frequency, year ends in April** |
| **(B)Q(S)-MAY** | **quarterly frequency, year ends in May** |
| **(B)Q(S)-JUN** | **quarterly frequency, year ends in June** |
| **(B)Q(S)-JUL** | **quarterly frequency, year ends in July** |
| **(B)Q(S)-AUG** | **quarterly frequency, year ends in August** |
| **(B)Q(S)-SEP** | **quarterly frequency, year ends in September** |
| **(B)Q(S)-OCT** | **quarterly frequency, year ends in October** |
| **(B)Q(S)-NOV** | **quarterly frequency, year ends in November** |
| **(B)A(S)-DEC** | **annual frequency, anchored end of December. Same as ‘A’** |
| **(B)A(S)-JAN** | **annual frequency, anchored end of January** |
| **(B)A(S)-FEB** | **annual frequency, anchored end of February** |
| **(B)A(S)-MAR** | **annual frequency, anchored end of March** |
| **(B)A(S)-APR** | **annual frequency, anchored end of April** |
| **(B)A(S)-MAY** | **annual frequency, anchored end of May** |
| **(B)A(S)-JUN** | **annual frequency, anchored end of June** |
| **(B)A(S)-JUL** | **annual frequency, anchored end of July** |
| **(B)A(S)-AUG** | **annual frequency, anchored end of August** |
| **(B)A(S)-SEP** | **annual frequency, anchored end of September** |
| **(B)A(S)-OCT** | **annual frequency, anchored end of October** |
| **(B)A(S)-NOV** | **annual frequency, anchored end of November** |

| **Date Offset** | **Frequency String** | **Description** |
| --- | --- | --- |
| [**DateOffset**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.DateOffset.html#pandas.tseries.offsets.DateOffset) | **None** | **Generic offset class, defaults to 1 calendar day** |
| [**BDay**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BDay.html#pandas.tseries.offsets.BDay)**or**[**BusinessDay**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BusinessDay.html#pandas.tseries.offsets.BusinessDay) | **'B'** | **business day (weekday)** |
| [**CDay**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.CDay.html#pandas.tseries.offsets.CDay)**or**[**CustomBusinessDay**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.CustomBusinessDay.html#pandas.tseries.offsets.CustomBusinessDay) | **'C'** | **custom business day** |
| [**Week**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Week.html#pandas.tseries.offsets.Week) | **'W'** | **one week, optionally anchored on a day of the week** |
| [**WeekOfMonth**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.WeekOfMonth.html#pandas.tseries.offsets.WeekOfMonth) | **'WOM'** | **the x-th day of the y-th week of each month** |
| [**LastWeekOfMonth**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.LastWeekOfMonth.html#pandas.tseries.offsets.LastWeekOfMonth) | **'LWOM'** | **the x-th day of the last week of each month** |
| [**MonthEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.MonthEnd.html#pandas.tseries.offsets.MonthEnd) | **'M'** | **calendar month end** |
| [**MonthBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.MonthBegin.html#pandas.tseries.offsets.MonthBegin) | **'MS'** | **calendar month begin** |
| [**BMonthEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BMonthEnd.html#pandas.tseries.offsets.BMonthEnd)**or**[**BusinessMonthEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BusinessMonthEnd.html#pandas.tseries.offsets.BusinessMonthEnd) | **'BM'** | **business month end** |
| [**BMonthBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BMonthBegin.html#pandas.tseries.offsets.BMonthBegin)**or**[**BusinessMonthBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BusinessMonthBegin.html#pandas.tseries.offsets.BusinessMonthBegin) | **'BMS'** | **business month begin** |
| [**CBMonthEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.CBMonthEnd.html#pandas.tseries.offsets.CBMonthEnd)**or**[**CustomBusinessMonthEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.CustomBusinessMonthEnd.html#pandas.tseries.offsets.CustomBusinessMonthEnd) | **'CBM'** | **custom business month end** |
| [**CBMonthBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.CBMonthBegin.html#pandas.tseries.offsets.CBMonthBegin)**or**[**CustomBusinessMonthBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.CustomBusinessMonthBegin.html#pandas.tseries.offsets.CustomBusinessMonthBegin) | **'CBMS'** | **custom business month begin** |
| [**SemiMonthEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.SemiMonthEnd.html#pandas.tseries.offsets.SemiMonthEnd) | **'SM'** | **15th (or other day\_of\_month) and calendar month end** |
| [**SemiMonthBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.SemiMonthBegin.html#pandas.tseries.offsets.SemiMonthBegin) | **'SMS'** | **15th (or other day\_of\_month) and calendar month begin** |
| [**QuarterEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.QuarterEnd.html#pandas.tseries.offsets.QuarterEnd) | **'Q'** | **calendar quarter end** |
| [**QuarterBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.QuarterBegin.html#pandas.tseries.offsets.QuarterBegin) | **'QS'** | **calendar quarter begin** |
| [**BQuarterEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BQuarterEnd.html#pandas.tseries.offsets.BQuarterEnd) | **'BQ** | **business quarter end** |
| [**BQuarterBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BQuarterBegin.html#pandas.tseries.offsets.BQuarterBegin) | **'BQS'** | **business quarter begin** |
| [**FY5253Quarter**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.FY5253Quarter.html#pandas.tseries.offsets.FY5253Quarter) | **'REQ'** | **retail (aka 52-53 week) quarter** |
| [**YearEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.YearEnd.html#pandas.tseries.offsets.YearEnd) | **'A'** | **calendar year end** |
| [**YearBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.YearBegin.html#pandas.tseries.offsets.YearBegin) | **'AS' or 'BYS'** | **calendar year begin** |
| [**BYearEnd**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BYearEnd.html#pandas.tseries.offsets.BYearEnd) | **'BA'** | **business year end** |
| [**BYearBegin**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BYearBegin.html#pandas.tseries.offsets.BYearBegin) | **'BAS'** | **business year begin** |
| [**FY5253**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.FY5253.html#pandas.tseries.offsets.FY5253) | **'RE'** | **retail (aka 52-53 week) year** |
| [**Easter**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Easter.html#pandas.tseries.offsets.Easter) | **None** | **Easter holiday** |
| [**BusinessHour**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.BusinessHour.html#pandas.tseries.offsets.BusinessHour) | **'BH'** | **business hour** |
| [**CustomBusinessHour**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.CustomBusinessHour.html#pandas.tseries.offsets.CustomBusinessHour) | **'CBH'** | **custom business hour** |
| [**Day**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Day.html#pandas.tseries.offsets.Day) | **'D'** | **one absolute day** |
| [**Hour**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Hour.html#pandas.tseries.offsets.Hour) | **'H'** | **one hour** |
| [**Minute**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Minute.html#pandas.tseries.offsets.Minute) | **'T' or 'min'** | **one minute** |
| [**Second**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Second.html#pandas.tseries.offsets.Second) | **'S'** | **one second** |
| [**Milli**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Milli.html#pandas.tseries.offsets.Milli) | **'L' or 'ms'** | **one millisecond** |
| [**Micro**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Micro.html#pandas.tseries.offsets.Micro) | **'U' or 'us'** | **one microsecond** |
| [**Nano**](http://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.tseries.offsets.Nano.html#pandas.tseries.offsets.Nano) | **'N'** | **one nanosecond** |