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"""
Python ?????A?????????
"""
import time
import datetime
import tushare as ts

ts.set_token('your token') #??????
pro = ts.pro_api()

def get_data_stock_daily(ts_code='', start_date='', end_date
=' ', retry_count=3, pause=2):
    #3?????????????????2?
    #??????16?????????
    for g in range(retry_count):
        try:
            df = pro.daily(ts_code=ts_code, start_date=start
_date, end_date=end_date,
                        fields='ts_code,trade_date,open,h
igh,low,close,pre_close,change,pct_chg,vol,amount')
        except Exception as err:
            print(err)
            time.sleep(pause)
        else:
            return df

def get_data_stock_daily_a(trade_date='', retry_count=3, pau
se=2):
    #3?????????????????2?
    #??????16?????????
    for g in range(retry_count):
        try:
            df = pro.daily(trade_date=trade_date, fields='ts
_code,trade_date,open,high,low,close,pre_close,change,\
                                pct
_chg,vol,amount')
        except Exception as err:
            print(err)
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        time.sleep(pause)
    else:
        return df

def end_dt(days=0):
    try:
        time_temp = datetime.datetime.now() - datetime.timedelta
        elta(days=days)
        dt = time_temp.strftime('%Y%m%d')
        return dt
    except Exception as err:
        print('end_dt is err', err)

if __name__ == '__main__':

    start_dt = end_dt(days=20)           #??????
    end_dt = end_dt(days=0)             #??????
    print(start_dt, end_dt)
    last_trade_dt = '20221111'         #??????
    code_wm = '002594.SZ'              #?????? ??????

    #??002594.SZ????????
    df_wm = get_data_stock_daily(ts_code=code_wm, start_date
    =start_dt, end_date=end_dt, retry_count=3, pause=2)
    print(df_wm)

    #??2022?11?11????????
    df_nv = get_data_stock_daily_a(trade_date=last_trade_dt,
    retry_count=3, pause=2)
    print(df_nv)

    """????
    20221023 20221112
           ts_code trade_date    open  ...  pct_chg      vo
1      amount
  0  002594.SZ    20221111  270.50  ...   3.2813  166099.5
9  4467701.122
  1  002594.SZ    20221110  264.63  ...  -3.4751  155496.7
7  4039239.830
```

2	002594.SZ	20221109	278.15	...	-2.4529	111946.3
6	3038705.770					
3	002594.SZ	20221108	279.45	...	-0.8857	105634.4
9	2925766.812					
4	002594.SZ	20221107	275.00	...	-0.4711	135842.0
6	3781158.420					
5	002594.SZ	20221104	268.98	...	4.5600	224886.8
9	6270505.264					
6	002594.SZ	20221103	265.02	...	0.1570	102383.9
7	2747240.766					
7	002594.SZ	20221102	261.00	...	2.1923	187319.2
9	4980989.815					
8	002594.SZ	20221101	247.11	...	6.1418	219282.7
1	5620272.304					
9	002594.SZ	20221031	237.50	...	2.8263	187942.3
3	4625511.532					
10	002594.SZ	20221028	253.00	...	-5.9255	263163.9
3	6372054.067					
11	002594.SZ	20221027	258.99	...	-1.1130	97765.8
2	2516238.985					
12	002594.SZ	20221026	260.00	...	-0.0155	126415.2
7	3279130.696					
13	002594.SZ	20221025	253.00	...	0.9156	113242.6
7	2897739.554					
14	002594.SZ	20221024	264.90	...	-4.0293	167412.5
6	4324097.663					

[15 rows x 11 columns]

vol	ts_code	trade_date	open	...	pct_chg	amount
0	000001.SZ	20221111	11.13	...	5.1518	2545070
.55						2878557.392
1	000002					
.SZ	20221111	14.73	...	9.9791	2911654.04	4449223.899
2	000004.SZ	20221111	9.77	...	-2.3933	22947
.25						22190.216
3	000005.SZ	20221111	1.81	...	-1.1050	121048
.82						21737.140
4	000006.SZ	20221111	3.98	...	4.1026	246891

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.22      99659.542
...      ...      ...      ...      ...      ...
...      ...
4977  873122.BJ  20221111  11.95  ...  -1.3445  5547
.54      6557.802
4978  873169.BJ  20221111   6.62  ...   0.1517  6569
.34      4333.168
4979  873223.BJ  20221111   3.84  ...   1.3123  21598
.31      8352.987
4980  873527.BJ  20221111   9.48  ...   0.1079  2668
.09      2483.030
4981  689009.SH  20221111  33.50  ...   1.8416  48064
.52     158772.548
```

[4982 rows x 11 columns]

Process finished with exit code 0

"""

"""

Pgabc 2022000029

author : Pgabc

www.wmdbsoft.com

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pip install pgabc

"""