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import pandas as pd
import yfinance as yf
import json

stocks_names = [
    'MSFT',
    'AAPL',
    'ORCL',
    'AMZN',
    'BRK-B',
    'NVDA',
    'INTC',
    'AMD',
    'TSLA',
    'GOOG',
    'META',
    'JPM', # JPMorgan
    'ADBE',
    'QCOM',
    'CRM', # Salesforce
    'BLK', # Blackrock
    'LLY',
    'JNJ',
    'PFE',
    'ABBV',
    'CSCO',
    'TXN',
    'BAC', # Bank of America
]

data = pd.DataFrame()
div_data = pd.DataFrame()
info_data = pd.DataFrame()
fin_data = pd.DataFrame()

def get_history(ticker, period='1y', interval='1d', start=None,
end=None):
    df = yf.Ticker(ticker).history(period=period, interval=interval,
start=start, end=end).reset_index()
    df['ticker'] = ticker
    df.rename(columns={
        'Date': 'date', 'Open': 'open', 'High': 'high', 'Low': 'low',
        'Close': 'close', 'Volume': 'volume',
    }, inplace=True)
    df['date'] = pd.to_datetime(df['date'], errors='coerce').dt.date
    df.drop(['Dividends', 'Stock Splits'], axis=1, inplace=True)
    return df

def get_dividends(ticker):

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        df =
yf.Ticker(ticker).get_dividends().reset_index().rename(columns={'Date'
:'date', 'Dividends':'dividends'})
        df['date'] = pd.to_datetime(df['date'], errors='coerce').dt.date
        df['ticker'] = ticker
        return df

def get_info(ticker):
    return pd.DataFrame.from_dict({'info':
[json.dumps(yf.Ticker(ticker).info)], 'ticker': [ticker]})

def get_balance_sheet(ticker):
    df =
yf.Ticker(ticker).balance_sheet.T.reset_index().rename(columns={'index
':'date'})
    df.columns = df.columns.str.replace(' ', '_').str.lower()
    df['ticker'] = ticker
    return df

for stock in stocks_names:
    fin_data = pd.concat([fin_data, get_balance_sheet(stock)])

data.to_csv('stg_stock_history.csv', index=False, encoding='utf8')

div_data.to_csv('stg_stock_dividends_history.csv', index=False,
encoding='utf8')

info_data.to_csv('stg_stock_info.csv', index=False, encoding='utf8')

fin_data.to_csv('stg_stock_balance_sheet.csv', index=False,
encoding='utf8')

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