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import pandas as pd

from datetime import datetime, timedelta


def hours_between(start_time, end_time):
    return (end_time - start_time).total_seconds() / 3600


def has_consecutive_days(records):
    consecutive_count = 0

    for i in range(1, len(records)):
        current_date = records.iloc[i]['Pay Cycle End Date']
        prev_date = records.iloc[i - 1]['Pay Cycle End Date']

        if (current_date - prev_date).days == 1:
            consecutive_count += 1
        else:
            consecutive_count = 0

        if consecutive_count == 6:
            return True

    return False


def analyze_employee_records(file_path):
    df = pd.read_excel(file_path)

    df['Pay Cycle End Date'] = pd.to_datetime(df['Pay Cycle End Date'])

    unique_employees = df['Employee Name'].unique()

    for employee_name in unique_employees:
        employee_records = df[df['Employee Name'] == employee_name].sort_values(by='Pay Cycle End Date')

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time_between_shifts = employee_records['Time Out'].shift(-1) - employee_records['Time']

if ((time_between_shifts > pd.Timedelta(hours=1)) & (time_between_shifts <
pd.Timedelta(hours=10))).any():

    print(f"{employee_name} has less than 10 hours between shifts")
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shift_duration = employee_records['Time Out'] - employee_records['Time']

if (shift_duration > pd.Timedelta(hours=14)).any():

    print(f"{employee_name} has worked for more than 14 hours in a single shift")
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if has_consecutive_days(employee_records):

    print(f"{employee_name} has worked for 7 consecutive days")
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file_path = 'Assignment_Timecard.XLSV'

analyze_employee_records(file_path)
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