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import json
from pathlib import Path
import os
import pandas as pd
# Define the directory path where your CSV files are located
csv data dir = r'C:\Users\PN174MM\OneDrive - EY\Desktop\Personal Projects\650\dsc65
def read_local_csv(file_path):
    return pd.read csv(file path)
current dir = Path(os.getcwd()).absolute()
results dir = current dir.joinpath('results')
kv_data_dir = results_dir.joinpath('kvdb')
kv data dir.mkdir(parents=True, exist ok=True)
people json = kv data dir.joinpath('people.json')
visited json = kv data dir.joinpath('visited.json')
sites_json = kv_data_dir.joinpath('sites.json')
measurements json = kv data dir.joinpath('measurements.json')
class KVDB(object):
   def init (self, db path):
        self._db_path = Path(db_path)
        self. db = \{\}
        self._load_db()
   def load db(self):
        if self. db path.exists():
            with open(self. db path) as f:
                self._db = json.load(f)
   def get value(self, key):
        return self._db.get(key)
   def set_value(self, key, value):
        self. db[key] = value
   def save(self):
        with open(self. db path, 'w') as f:
            json.dump(self._db, f, indent=2)
def create_sites_kvdb():
   db = KVDB(sites json)
   df = read local csv(os.path.join(csv data dir, 'site.csv'))
    for site_id, group_df in df.groupby('site_id'):
        key = str(site id) # Convert the tuple to a string
        db.set_value(key, group_df.to_dict(orient='records')[0])
   db.save()
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def create people kvdb():
   db = KVDB(people json)
   df = read local csv(os.path.join(csv data dir, 'person.csv'))
   for person id, group df in df.groupby('person id'):
        key = str(person id) # Convert the tuple to a string
        db.set value(key, group df.to dict(orient='records')[0])
   db.save()
def create visits kvdb():
   db = KVDB(visited json)
   df = read_local_csv(os.path.join(csv_data_dir, 'visited.csv'))
   # Initialize an empty dictionary to store the data
   visits data = {}
   for index, row in df.iterrows():
        key = f"{row['visit_id']}_{row['site_id']}" # Combine values into a single
        if not pd.isnull(row['visit id']): # Check for missing value
            visits data[key] = {
                'visit id': int(row['visit id']),
                'site id': str(row['site id']),
                'visit date': str(row['visit date'])
            }
   # Set the entire visits data dictionary as the value for visited json
   db.set_value('visits_data', visits_data)
   db.save()
def create measurements kvdb():
   db = KVDB(measurements json)
   df = read local csv(os.path.join(csv data dir, 'measurements.csv'))
   for index, row in df.iterrows():
        key = f"{row['visit_id']}_{row['person_id']}_{row['quantity']}" # Combine
        db.set value(key, row.to dict())
   db.save()
create_sites_kvdb()
create people kvdb()
create visits kvdb()
create measurements kvdb()
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