kvdb santosh

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[3]: import json
     from pathlib import Path
     import os
     import pandas as pd
     import s3fs
     def read_cluster_csv(file_path, endpoint_url='https://storage.budsc.
      →midwest-datascience.com'):
         s3 = s3fs.S3FileSystem(
             anon=True,
             client_kwargs={
                 'endpoint_url': endpoint_url
             }
         )
         return pd.read_csv(s3.open(file_path, mode='rb'))
[4]: 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)
[5]: 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')
[6]: 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:
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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)
[13]: def create_sites_kvdb():
          db = KVDB(sites_json)
          df = read_cluster_csv('data/external/tidynomicon/site.csv')
          for site_id, group_df in df.groupby('site_id'):
              db.set value(site id, group df.to dict(orient='records')[0])
          db.save()
      def create_people_kvdb():
          db = KVDB(people json)
          df_ppl = read_cluster_csv('data/external/tidynomicon/person.csv')
          for person_id, group_df in df_ppl.groupby('person_id'):
              db.set_value(person_id, group_df.to_dict(orient='records')[0])
          db.save()
      def create_visits_kvdb():
          db = KVDB(visited_json)
          df_vis = read_cluster_csv('data/external/tidynomicon/visited.csv')
          for visit id, group df in df vis.groupby('visit id'):
              db.set value(str(visit id), group df.to dict(orient='records')[0])
          db.save()
      def create_measurements_kvdb():
          db = KVDB(measurements_json)
          df_measr = read_cluster_csv('data/external/tidynomicon/measurements.csv')
          for visit_id, group_df in df_measr.groupby('visit_id'):
              db.set_value(visit_id, group_df.to_dict(orient='records')[0])
          db.save()
[14]: create_sites_kvdb()
      create_people_kvdb()
      create_visits_kvdb()
      create measurements kvdb()
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