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In [1]:
         from pathlib import Path
         import json
         import os
         from tinydb import TinyDB
         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)
         def _load_json(json_path):
             with open(json_path) as f:
                 return json.load(f)
         class DocumentDB(object):
             def __init__(self, db_path):
                 ## You can use the code from the previous exmaple if you would like
                 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')
                 self._db_path = Path(db_path)
                 self._db = None
                 self. person lookup = load json(people json)
                 self._visited_lookup = _load_json(visits_json)
                 self. site lookup = load json(sites json)
                 self._measurements_lookup = _load_json(measurements_json)
                 self. load db()
             def get site(self, site id):
                 return self._site_lookup[str(site_id)]
             def _get_measurements(self, person_id):
                 measurements = []
                 for values in self. measurements lookup.values():
                     measurements.extend([value for value in values if str(value['person id']) =
                     return measurements
             def _get_visit(self, visit_id):
                 visit = self. visit lookup.get(str(visit id))
                 site id = str(visit['site id'])
                 site = self. site lookup[site id]
                 visit['site'] = site
                 return visit
             def load db(self):
                 self. db = TinyDB(self. db path)
                 persons = self._person_lookup.items()
                 for person_id, record in persons:
                     measurements = self. get measurements(person id)
                     visit ids = set([measurement['visit id'] for measurement in measurements])
                     visits = []
                 for visit_id in visit_ids:
                     visit = self._get_visit(visit_id)
                     visit['measurements'] = [
                         measurement for measurement in measurements
                          if visit id == measurement['visit id']
                     visits.append(visit)
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record['visits'] = visits
self._db.insert(record)