September 16, 2020

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[5]: 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)
[6]: def _load_json(json_path):
         with open(json_path) as f:
             return json.load(f)
[7]: 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._visit_lookup = _load_json(visited_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 = []
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for values in self._measurements_lookup.values():
                 measurements.extend([value for value in values if_

→str(value['person_id']) == str(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)
                 record['visits'] = visits
                 self._db.insert(record)
[8]: db_path = results_dir.joinpath('patient-info.json')
     if db_path.exists():
         os.remove(db_path)
     db = DocumentDB(db_path)
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[]: