documentdb santosh

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[1]: from pathlib import Path
     import os
     import sqlite3
     import s3fs
     import pandas as pd
     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 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'))
```

```
[2]: def create_measurements_table(conn):
    sql = """
        CREATE TABLE IF NOT EXISTS measurements (
            visit_id integer NOT NULL,
            person_id text NOT NULL,
            quantity text,
            reading real,
            FOREIGN KEY (visit_id) REFERENCES visits (visit_id),
            FOREIGN KEY (person_id) REFERENCES people (people_id)
            );
        """

        c = conn.cursor()
        c.execute(sql)
```

```
def load_measurements_table(conn):
    create_measurements_table(conn)
    df_m = read_cluster_csv('data/external/tidynomicon/measurements.csv')
    measurements = df_m.values
    c = conn.cursor()
    c.execute('DELETE FROM measurements;') # Delete data if exists
    c.executemany('INSERT INTO measurements VALUES (?,?,?,?)', measurements)
```

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[3]: def create_people_table(conn):
         sql = """
         CREATE TABLE IF NOT EXISTS people (
             people_id text NOT NULL,
             personal_name text,
             family_name text
             );
         0.0001
         c = conn.cursor()
         c.execute(sql)
     def load_people_table(conn):
         create_people_table(conn)
         df = read_cluster_csv('data/external/tidynomicon/person.csv')
         people = df.values
         c = conn.cursor()
         c.execute('DELETE FROM people;') # Delete data if exists
         c.executemany('INSERT INTO people VALUES (?,?,?)', people)
```

```
[4]: def create_sites_table(conn):
         sql = """
         CREATE TABLE IF NOT EXISTS sites (
             site id text PRIMARY KEY,
             latitude double NOT NULL,
             longitude double NOT NULL
             );
         0.00
         c = conn.cursor()
         c.execute(sql)
     def load_sites_table(conn):
         create_sites_table(conn)
         df_s = read_cluster_csv('data/external/tidynomicon/site.csv')
         sites = df_s.values
         c = conn.cursor()
         c.execute('DELETE FROM sites;') # Delete data if exists
         c.executemany('INSERT INTO sites VALUES (?,?,?)', sites)
```

```
[5]: def create_visits_table(conn):
         sql = """
         CREATE TABLE IF NOT EXISTS visits (
             visit_id integer PRIMARY KEY,
             site_id text NOT NULL,
             visit_date text,
             FOREIGN KEY (site_id) REFERENCES sites (site_id)
             );
         .....
         c = conn.cursor()
         c.execute(sql)
     def load_visits_table(conn):
         create_visits_table(conn)
         df_v = read_cluster_csv('data/external/tidynomicon/visited.csv')
         visits = df_v.values
         c = conn.cursor()
         c.execute('DELETE FROM visits;') # Delete data if exists
         c.executemany('INSERT INTO visits VALUES (?,?,?)', visits)
```

```
[6]: db_path = results_dir.joinpath('patient-info.db')
    conn = sqlite3.connect(str(db_path))

load_people_table(conn)
load_sites_table(conn)
load_visits_table(conn)
load_measurements_table(conn)

sql = """SELECT * FROM visits;"""

c = conn.cursor()
c.execute(sql)

result = c.fetchall

print(result)
conn.commit()
conn.close()
```

<built-in method fetchall of sqlite3.Cursor object at 0x7f63c19dadc0>

```
[]:
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