#### Create and Load Measurements Table

```
In [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 (person_id)
                );
            .....
            c = conn.cursor()
            c.execute(sql)
        def load_measurements_table(conn):
            create measurements table(conn)
            df = pd.read_csv('measurements.csv')
            measurements = df.values
            c = conn.cursor()
            c.execute('DELETE FROM measurements;') # Delete data if exists
            c.executemany('INSERT INTO measurements VALUES (?,?,?,?)', measurements)
```

# **Create and Load People Table**

```
In [3]: def create_people_table(conn):
    sql = """
```

```
CREATE TABLE IF NOT EXISTS people (
        person_id text NOT NULL,
        personal name text,
        family_name text,
        FOREIGN KEY (person_id) REFERENCES measurements (person_id)
        );
   .....
   c = conn.cursor()
   c.execute(sql)
def load_people_table(conn):
   create_people_table(conn)
   df = pd.read_csv('person.csv')
   people = df.values
   c = conn.cursor()
   c.execute('DELETE FROM people;') # Delete data if exists
   c.executemany('INSERT INTO people VALUES (?,?,?)', people)
```

### Create and Load Sites Table

```
In [4]: def create_sites_table(conn):
            sql = """
            CREATE TABLE IF NOT EXISTS sites (
                site_id text PRIMARY KEY,
                latitude double,
                longitude double,
                FOREIGN KEY (site_id) REFERENCES visits (site_id)
                );
            c = conn.cursor()
            c.execute(sql)
        def load sites table(conn):
            create sites table(conn)
            df = pd.read_csv('site.csv')
            sites = df.values
            c = conn.cursor()
            c.execute('DELETE FROM sites;') # Delete data if exists
            c.executemany('INSERT INTO sites VALUES (?,?,?)', sites)
```

#### **Create and Load Visits Table**

```
In [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 = pd.read_csv('visited.csv')
    visits = df.values
    c = conn.cursor()
    c.execute('DELETE FROM visits;') # Delete data if exists
    c.executemany('INSERT INTO sites VALUES (?,?,?)', visits)
```

## Create DB and Load Tables

```
In [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)

conn.commit()
    conn.close()
```