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"""query_db-2016-12-09"""

import pandas as pd
import sqlite3


DB = "../output/counts_sample.db"

# open db and init cursor
conn = sqlite3.connect(DB)
c = conn.cursor()

# get list of table names in db
table_names = c.execute('''
    SELECT name from sqlite_master
    WHERE type='table';
''').fetchall()

# for each table, check that rows do exist, and are correct columns
for t in table_names:
    # table name
    print "Table: ", t[0]
    # number of lines in table
    print "Number of rows: ", c.execute('''
        SELECT count(*) from %s
    '''%t).fetchone()[0]
    # columns in table
    print "Columns: "
    cols = c.execute('''
        PRAGMA table_info(%s);
    '''%t).fetchall()
    for col in cols:
        print col
    # example row
    print "Example row: ", c.execute('''
        SELECT * from %s
        WHERE mcountsPF > 1000;
    '''%t).fetchone()
    print '\n'

# close connection
# conn.commit()
conn.close()
```