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import mysql.connector
import os
dirname = os.path.dirname(__file__)

def getDb():
   mydb = mysql.connector.connect(
       host="localhost",
       user="root",
       password="Naruto@99",
       database="assignment_3"
   )
   return mydb

def getRowsFromCsv(filename):
   rows = []
   with open(filename, 'r') as file:
       for line in file:
           rows.append(line)
   return rows

def insertCountryToDB(db):
   filename = dirname +'/files/country.rtf'
   rows = getRowsFromCsv(filename)
   for row in rows:
       r = row.split(',')
       query = "INSERT IGNORE INTO country(country_code, country_name)" \
               "VALUES(%s,%s)"
       args = (r[2], r[0])
       db.cursor().execute(query, args)
       db.commit()

def findCountryCode(db, name):
   name = name.replace('"', '')
   query = f"SELECT * FROM country WHERE country_name LIKE '%{name}%'"
   cur = db.cursor()
   cur.execute(query)
   data = cur.fetchall()
   if len(data) > 0:
       return data[0]
   else:
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        return 0

def insertInternet(db):
    filename = dirname +'/files/internet.csv'
    rows = getRowsFromCsv(filename)
    for row in rows:
        r = row.split(',')
        data = findCountryCode(db, r[0])
        if data:
            countrycode = data[0]
            query = "INSERT INTO internet(country_code, income_perperson,
internet_userrate)" \
                    "VALUES(%s,%s,%s)"
            args = (countrycode, r[2], r[3])
            db.cursor().execute(query, args)
            db.commit()

def insertLiteracy(db):
    try:
        filename = dirname +'/files/literacy.csv'
        rows = getRowsFromCsv(filename)
        for row in rows:
            r = row.split(',')
            data = findCountryCode(db, r[0])
            if data:
                print(r[0], r[1], r[2], r[3], data[0])
                # countrycode = data[0]
                # args = (countrycode, r[1], r[2], r[3])
                # query = "INSERT INTO internet(country_code, literacy_rate,
literacy_population, literacy_year)" \
                #         "VALUES(%s,%s,%s,%s)"
                # db.cursor().execute(query, args)
                # db.commit()
    except Exception as e:
        print('error', e)


def insertAlcohol(db):
    filename = dirname +'/files/alcohol.csv'
    rows = getRowsFromCsv(filename)
    for row in rows:
    # row = rows[0]
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        r = row.split(',')
        data = findCountryCode(db, r[0])
        if data:
            countrycode = data[0]
            query = "INSERT INTO alchappiness(country_code, human_development,
beer_capita, wine_capita)" \
                    "VALUES(%s,%s,%s,%s)"
            args = (countrycode, r[4], r[6], r[8])
            db.cursor().execute(query, args)
            db.commit()

def insertCrime(db):
    filename = dirname +'/files/alcohol.csv'
    rows = getRowsFromCsv(filename)
    for row in rows:
    # row = rows[0]
        r = row.split(',')
        data = findCountryCode(db, r[0])
        if data:
            countrycode = data[0]
            query = "INSERT INTO alchappiness(country_code, human_development,
beer_capita, wine_capita)" \
                    "VALUES(%s,%s,%s,%s)"
            args = (countrycode, r[4], r[6], r[8])
            db.cursor().execute(query, args)
            db.commit()



def main():
    try:
        db = getDb()
        # insertCountryToDB(db)
        # insertInternet(db)
        insertLiteracy(db)
        # insertAlcohol(db)

    except Exception as e:
        print(e)

main()
```