import mysql.connector

import csv

mydb = mysql.connector.connect(host="localhost", user="yourusername", password="yourpassword", database="university")

mycursor = mydb.cursor()

mycursor.execute("""

SELECT s.stuId, s.lastName, s.firstName,

ROUND((SUM(c.credits \*

CASE c.grade

WHEN 'A' THEN 4

WHEN 'B' THEN 3

WHEN 'C' THEN 2

ELSE 0

END) / SUM(c.credits)), 2) AS GPA

FROM Students s

JOIN ClassRegistration cr ON s.stuId = cr.stuId

JOIN Classes c ON cr.classId = c.classId

WHERE cr.credits > 2

GROUP BY s.stuId

HAVING GPA > 3.5

ORDER BY s.stuId;

""")

with open('csc\_students.txt', 'w', newline='') as f:

writer = csv.writer(f)

writer.writerow(['stuId', 'Last Name', 'First Name', 'GPA'])

writer.writerows(mycursor.fetchall())

mydb.close()