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import csv

CompSexAnnotDict = {}

with open('GPL570SexData.csv', newline='') as csvfile:
    CompSexAnnotReader = csv.reader(csvfile, delimiter=' ', quotechar='|')
    for row in CompSexAnnotReader:
        CompSexAnnotDict.update({row[0]: row[1]})

ManSexAnnotDict = {}

with open('gpl570.gsm.tis-sex-age.v4.csv', newline='') as csvfile:
    ManSexAnnotReader = csv.reader(csvfile, delimiter=',', quotechar='|')
    for row in ManSexAnnotReader:
        ManSexAnnotDict.update({row[1]: row[2]})

AggGSM = []

for ManGSM in ManSexAnnotDict:
    for CompGSM in CompSexAnnotDict:
        if CompGSM == ManGSM:
            if CompGSM in AggGSM:
                pass
            else:
                AggGSM.append(CompGSM)
        else:
            pass

with open('CombinedSexTable.csv', 'w', newline='') as csvfile:
    CombinedSexWriter = csv.writer(csvfile, delimiter=',', quotechar='|',
    quoting=csv.QUOTE_MINIMAL)
    for GSM in AggGSM:
        if CompSexAnnotDict.get(GSM).lower() == ManSexAnnotDict.get(GSM).lower():
            CombinedSexWriter.writerow([GSM, CompSexAnnotDict.get(GSM),
            ManSexAnnotDict.get(GSM), 'Yes'])
        else:
            CombinedSexWriter.writerow([GSM, CompSexAnnotDict.get(GSM),
            ManSexAnnotDict.get(GSM), 'No'])

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