

代码思路:

在这里遇到了很多问题, 如:

1. global company key 和 company name分别提取出作为列表, 去重后列表长度却不同了
2. 想要将 global company key 和 company name 提取后合成字典写入xls表中, 还没有去重字典长度就已经变小了 (如下图)

Name	Type	Size	Value
global_cpkey	list	65535	['001166', '001166', '0...
global_cpnames	list	65535	['ASM INTERNATIONAL NV'...
global_namekey_dict	dict	29193	{'ASM INTERNATIONAL NV'...
global_workb	book.Book	1	Book object of xlrd.book module
global_worksh	sheet.Sheet	1	Sheet object of xlrd.sheet module

3. 一开始代码思路不清晰, 反复删改了很多次
1. 将global firm 与 us names 中的company name 和 global company key 提取出, 并保持原有的对应关系写入新创建的Allcompany.xls表中
2. 将customer表格中Customer Name 与上述中所有的 company name 进行比对后, 匹配度大于60% 的则记录在 Allcompany.xls表中,使缩写与全称的公司的对应相同的global company key
3. 将 Allcompany中的company name列 与 customer 表中company name列 (供应商列) 进行比对, 如果名称相同, 记录下该供应商对应的customer,再通过在全company中找到对应的customer与Allcompany中的company name 列再进行比对, 获取到该customer的全名作为下游, 并记录在Allcompany.xls表中
4. 将Allcompany中的company name列 与 customer 表中Customer Name列 (客户列) 进行比对, 如果名称相同, 记录下该供应商对应的customer,再通过在全company中找到该customer对应的供应商作为上游, 并记录在Allcompany.xls表中

最后应该呈现的效果:

一行中包括: global company key, company name, customer(下游), 供应商 (上游)

由于对数据项每一列信息的不熟悉, 在总结哪些是可用的信息时花费了一些时间, 再加上代码编写过程中思路的不清晰和偶尔出现的bug, 今日的代码进展并不顺利。下面是还在删改的第4版, 是代码思路和上面相符 (遇到问题还在修改的部分注释了):

```
import xlrd
import xlwt
import difflib
import functools

# global firm names 和 us names 的 Global Company Key 和 Company Name 提取
global_workb = xlrd.open_workbook(r'C:\Users\jc\Documents\Pydata'+
                                   '\Database Table\global firm names.xls')
global_worksh = global_workb.sheet_by_name('0x77igavdumz8vu1')
global_cpnames = global_worksh.col_values(colx = 7, start_rowx = 1)
```

```

global_cpkey = global_worksh.col_values(colx = 0, start_rowx = 1)
# 组成字典
global_namekey_dict = { name:key for name,key in zip(global_cpnames,
global_cpkey)}

# us_workb = xlrd.open_workbook(r'C:\Users\jc\Documents\Pydata'+
#                               '\Database Table\us names.xls')
# us_worksh = us_workb .sheet_by_name('76aqys7wh9axjpme')
# us_cpnames = us_worksh.col_values(colx = 9, start_rowx = 1)
# us_cpkey = us_worksh.col_values(colx = 0, start_rowx = 1)
# # 组成字典
# us_namekey_dict = {name:key for name,key in zip(us_cpnames,us_cpkey)}

# # 对company names去重
# namekey_dict = global_namekey_dict + us_namekey_dict
# unique_list = functools.reduce(lambda x, y: y in x and x or x + [y],
namekey_dict, [])

# # 写入Allcompany表中
# Allcompany = xlwt.workbook()
# sheet = Allcompany.add_sheet('sheet1')
# name_list = ['Global Company Key','Company Name']
# for i in name_list:
#     sheet.write(0, name_list.index(i), i)

# # 将 global firm names 的 company name和Global Company Key写入xls表中
# Allcompany = xlwt.workbook()
# sheet = Allcompany.add_sheet('sheet1')
# name_list = ['Global Company Key','Company Name']
# for i in name_list:
#     sheet.write(0, name_list.index(i), i)

# # cpid_dict = dict(zip(global_cpid,range(1,len(global_cpid)+1)))
# # for glocp,i in cpid_dict.items():
# #     sheet.write(i,0,glocp)

# cpname_dict = dict(zip(global_cpnames ,range(1,len(global_cpnames)+1)))
# for glocp,i in cpname_dict.items():
#     sheet.write(i,1,glocp)

# # us names 的 Global Company Key 和 Company Name 提取
# us_workb = xlrd.open_workbook(r'C:\Users\jc\Documents\Pydata'+
#                               '\Database Table\us names.xls')
# us_worksh = us_workb .sheet_by_name('76aqys7wh9axjpme')
# us_cpnames = us_worksh.col_values(colx = 9, start_rowx = 1)
# us_cpid = us_worksh.col_values(colx = 0, start_rowx = 1)
# us_cpnames = list(set(us_cpnames))
# us_cpid = list(set(us_cpid))

# # 将us names 的 company name和Global Company Key写入xls表中
# cpid_dict = dict(zip(us_cpid,range(len(global_cpnames)+1,
# len(global_cpnames)+1+len(us_cpid))))
# for uscp,i in cpid_dict.items():

```

```
#         sheet.write(i,0,uscp)

# # cname_dict = dict(zip(us_cpnames ,range(len(global_cpnames)+1,
# #                               len(global_cpnames)+1+len(us_cpnames))))
# # for uscp,i in cname_dict.items():
# #     sheet.write(i,1,uscp)


# # 将customer中的Customer Name与company name用difflib进行差异对比


# # 保存文件
# Allcompany.save('Allcompany.xls')
```