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#!/usr/bin/python
import xlrd
import xlwt
import xlutils.copy
# Variable definitions
                             = "Daten.xlsx"
path_to_file
ind_transactions
ind_store
col_store
                             = 1
                             = 3
col_salesperson
                             = 8
                             = {}
dict stores salespersons
dict stores num salesperson
                            = {}
row_start
                             = 1
row_current
                             = row_start
= xlrd.open workbook(path_to_file)
sheets
                             = sheets.sheet_by_index(ind_transactions)
sheet transactions
                             = sheets.sheet_by_index(ind_store)
sheet_stores
# Initialize dictionary with empty lists
for store in sheet stores.col values (0, 1):
       dict_stores_salespersons[store] = []
# Fill dictionary with salesperson for each store
for store in sheet transactions.col values(col store, row start):
       salesperson = sheet transactions.cell value(row current, col salesperson)
       dict_stores_salespersons[store].append(salesperson)
       row current += 1
# Create dict with number of unique salespersons for each store
for store in dict stores salespersons:
       num salesperson = len(set(dict stores salespersons[store]))
       dict_stores_num_salesperson[store] = num_salesperson
       print "number of unique salespersons in store %.0f: %d" % (store, dict_stores_num_salesperson
[store])
sheets copied = xlutils.copy.copy(sheets)
write_sheet_stores = sheets_copied.get_sheet(ind_store)
# Create new entries in Store File
write_sheet_stores.write(0, sheet_stores.ncols, 'num_salesperson')
for row in range(1, sheet_stores.nrows):
       store = sheet_stores.cell_value(row, 0)
       write_sheet_stores.write(row, sheet_stores.ncols, dict_stores_num_salesperson[store])
```

# Save to path\_to\_file

sheets\_copied.save(path\_to\_file)