Assignment 1a

#Find statistical analysis of Employee Records

f=open("/content/sample\_data/emp2.csv","r")

contents=f.read()

lines=contents.split("\n")

eid=[];nm=[];desgn=[];sal=[];

for l in lines:

  words=l.split(",")

  print(words)

  eid.append(int(words[0]))

  nm.append(words[1])

  desgn.append(words[2])

  sal.append(int(words[3]))

print("Employee IDs:",eid)

print("Employee Names:",nm)

print("Employee Designation:",desgn)

print("Employee Salary:",sal)

#max salary

print("Maximum Salary:",max(sal))

#min salary

print("Minimum Salary:",min(sal))

#Average salary

print("Average Salary:",sum(sal)/len(sal))

#Total Salary

print("Total Salary:",sum(sal))

#employee whose salary is maximum

print("Employee Name whose salary is maximum",nm[sal.index(max(sal))])

#employee whose Designation is manager

print("Employee Name whose designation is manager",end="")

for i in range(len(desgn)):

  if desgn[i]=="Manager" or desgn[i]=="manager":

    print(nm[i],end="")

#employee whose salary is 95000

print("Employee Name whose salary is 95000:",nm[sal.index(95000)])

#employee whose salary is minimum

print("\nEmployee Name whose salary is minimum:",nm[sal.index(min(sal))])

#employee whose designation is sr.manager

print("Employee Name whose designation is sr.manager",end="")

for i in range(len(desgn)):

  if desgn[i]=="sr.manager"or desgn[i]=="sr.manager":

    print(nm[i],end="")

f=0

#employee whose salary is 95000

for i in range(len(sal)):

  if sal[i]==95000:

    print("\nEmployee Name whose salary is 95000:",nm[i])

    f=1

if(f==0):

  print("\nNo any employee present whose salary is 95000:",nm[i])

Output

['1', 'SANVI', 'MANAGER', '100000']

['2', 'MRUNMAYEE', 'SR.MANAGER', '95000']

['3', 'JAYESH', 'MANAGER', '8000']

['4', 'GAURI', 'SR.MANAGER', '95000']

['5', 'MAHESH', 'SUPERVISOR', '500000']

Employee IDs: [1, 2, 3, 4, 5]

Employee Names: ['SANVI', 'MRUNMAYEE', 'JAYESH', 'GAURI', 'MAHESH']

Employee Designations: ['MANAGER', 'SR.MANAGER', 'MANAGER', 'SR.MANAGER', 'SUPERVISOR']

Employee Salary: [100000, 95000, 8000, 95000, 500000]

maximum salary: 500000

maximum salary: 8000

average salary: 159600.0

total salary: 798000

Employee name whose salary is maximum MAHESH

Employee name whose designation is manager Employee name whose salary is 100000 : SANVI

Employee name whose designation is Sr.manager,SANVI JAYESH

Employee name whose salary is 95000: MRUNMAYEE

Employee name whose salary is 95000: GAURI

Assignment1B

import csv

def top\_5\_emp(d3):

  d3.sort(key=lambda x:int(x[5]),reverse=True)

  print("Sorted Data:",d3)

  print("\n\nTop1 Employee",d3[0][1],d3[0][4])

  print("Top2 Employee",d3[1][1],d3[1][4])

  print("Top1 Employee",d3[2][1],d3[2][4])

  print("Top2 Employee",d3[3][1],d3[3][4])

  print("Top2 Employee",d3[4][1],d3[4][4])

f1=open("/content/sample\_data/emp.csv","r")

f2=open("/content/sample\_data/empsal.csv","r")

f3=open("/content/sample\_data/emp\_sal.csv","w")

d1=list(csv.reader(f1,delimiter=','))

d2=list(csv.reader(f2,delimiter=','))

print("\n\nFile1 Contents:",d1)

print("\n\nFile2 Contents:",d2)

d3=[]

for i in range(len(d1)):

  d3.append(d1[i]+d2[i])

#print(d3)

cw=csv.writer(f3)

cw.writerows(d3)

##top\_5\_emp(d3)

f1.close()

f2.close()

f3.close()

OUTPUT:

file1 contents: [['sakshi', 'nashik'], ['vidhisha', 'nagpur'], ['prakruti', 'solapur'], ['shravni', 'pune'], ['shruti', 'mumbai']]

file2 contents: [['sakshi', 'manager', '1000'], ['vidhisha ', 'SR.manager', '2000'], ['prakruti', 'peon', '3000'], ['shravani', 'CEO', '4000'], ['shruti', 'employee', '5000']]

[['sakshi', 'nashik', 'sakshi', 'manager', '1000'], ['vidhisha', 'nagpur', 'vidhisha ', 'SR.manager', '2000'], ['prakuriti', 'solapur', 'prakruti', 'peon', '3000'], ['shravni', 'pune', 'shravani', 'CEO', '4000'], ['shruti', 'mumbai', 'shruti', 'employee', '5000']]

Sorted data : [['shruti', 'mumbai', 'shruti', 'employee', '5000'], ['shravni', 'pune', 'shravani', 'CEO', '4000'], ['prakruti', 'solapur', 'prakruti', 'peon', '3000'], ['vidhisha', 'nagpur', 'vidhisha ', 'SR.manager', '2000'], ['sakshi', 'nashik', 'sakshi', 'manager', '1000']]

Top1 Employee mumbai 5000

top2 Employee pune 4000

top1 Employee solapur 3000

top2 Employee nagpur 2000

top2 Employee nashik 1000

Assignment 1c

#Assignment 1c--Read the birth date of employees from the Employee record.Perform data transformation for birthday to age and also salary

#which is in rupees to salary in dollars.

import datetime

import csv

f=open ("/content/sample\_data/employee.csv","r")

data=list(csv.reader(f))

print(data)

from datetime import date

def calculateAge(birthdate):

  today=date.today()

  age=today.year-birthdate.year-((today.month,today.day)<(birthdate.month,birthdate.day))

  return age

bdate=[]

age=[]

dollars=[]

for i in range(len(data)):

   print(data[i][1])

   bdate.append(datetime.datetime.strptime(data[i][3],'%d-%m-%Y').date())

print("birthdate=",bdate)

for i in range(len(data)):

  age.append(calculateAge(bdate[i]))

  dollars.append((float(data[i][4]))/82)

print("Age=",age)

print("salary=",dollars)

Output:

[['1', 'vidhisha', 'bhandara', '04-08-2004', '1000000'], ['2', 'arav', 'nagpur', '02-08-2003', '50000'], ['3', 'sakshi', 'uzzhord', '03-12-2000', '2000000'], ['4', 'bhushan', 'mumbai', '15-02-2001', '80000'], ['5', 'ashish', 'pune', '04-10-2000', '500000']]

vidhisha

arav

sakshi

bhushan

ashish

birthdate= [datetime.date(2004, 8, 4), datetime.date(2003, 8, 2), datetime.date(2000, 12, 3), datetime.date(2001, 2, 15), datetime.date(2000, 10, 4)]

Age= [18, 19, 22, 22, 22]

salary= [12195.121951219513, 609.7560975609756, 24390.243902439026, 975.609756097561, 6097.5609756097565]