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ASSIGNMENT 1

Assignment 1:a

```
#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 DEsignations:",desgn)
print("Employee Salary:",sal)

#max salary
```

```

print("maximum salary:",max(sal))

#min salary
print("maximum salary:",min(sal))

#average salary
print("average salary:",sum(sal)/len(sal))

#total salary
print("total salary:",sum(sal))


#employess 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(design)):
    if design[i] == "manager " or design[i] == "manager":
        print(nm[i],end= " ")


#Employee whose salary is 100000
print("Employee name whose salary is 100000 : ",nm[sal.index(100000)])


#employee whose designation is sr.manager
print("Employee name whose designation is Sr.manager",end=",")
for i in range(len(design)):
    if design[i] == "SR.MANAGER " or design[i] == "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

EDS ASSIGNMENT

Assignment1=B

```
import csv
def top_5_emp(d3):
    d3.sort(key = lambda x: int (x[4]),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/sakshi.csv", "r")
f2 = open("/content/sample_data/salary1.csv", "r")
f3 = open("/content/sample_data/empty1.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'], ['prakuriti', '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'], ['prakuriti', '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
```

EDS ASSIGNMENT:

Assignment1c:

```
#assignment1c--Read the birth date of the employee record perform data transformation for birthday 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("bithdate=", 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', 'sakshi', 'nashik', '6-3-2004', '1000'], ['2', 'swapnil', 'pune', '12-1-2004', '500'], ['3', 'Rajesh',
'sambajinagar', '13-12-2005', '300'], ['4', 'omkar', 'shirdi', '4-6-2002', '100'], ['5', 'vidhisha', 'ahamadnagar',
'6-12-3005', '400']]
sakshi
bithdate= [datetime.date(2004, 3, 6)]
swapnil
bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12)]
Rajesh
bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12), datetime.date(2005, 12, 13)]
omkar
bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12), datetime.date(2005, 12, 13),
datetime.date(2002, 6, 4)]
vidhisha
bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12), datetime.date(2005, 12, 13),
datetime.date(2002, 6, 4), datetime.date(3005, 12, 6)]
Age= [19, 19, 17, 20, -983]
salary= [12.195121951219512, 6.097560975609756, 3.658536585365854, 1.2195121951219512,
4.878048780487805]

```