"""BLOOD BANK MANAGEMENT SYSTEM"""

import datetime as dt

import xlrd as xl

import openpyxl as xo

filename=("C:/Users/DELL/Desktop/bloodbnk/Database.xlsx")

# name of the excel sheet is record

sheetnumber=0

wb=xl.open\_workbook(filename)

sheet=wb.sheet\_by\_index(sheetnumber)

norows=sheet.nrows

wb1=xo.load\_workbook("C:/Users/DELL/Desktop/bloodbnk/Database.xlsx")

sheet1=wb1.active

uid='admin'

pw='password'

print("\n\t\tAdmin login")

username=str(input("\nEnter Username:"))

if username==uid:

pd=input("\nEnter Password:")

if (pd==pw):

print("\nLogin Successful...")

print("\nDonors\n")

Bpositivecount=0

Bnegativecount=0

Apositivecount=0

Anegativecount=0

Abpositivecount=0

Abnegativecount=0

Opositivecount=0

Onegativecount=0

l=[]

l1=[]

for i in range(1,norows):

x=str(sheet.cell\_value(i,0))

l.append(x)

# count of respective bloodgroup in donors

for i in l:

if i=='Bpositive':

Bpositivecount=Bpositivecount+1

elif i=='Bnegative':

Bnegativecount=Bnegativecount+1

elif i=='Apositive':

Apositivecount=Apositivecount+1

elif i=='Anegative':

Anegativecount=Anegativecount+1

elif i=='Abpositive':

Abpositivecount=Abpositivecount+1

elif i=='Abnegative':

Abnegativecount=Abnegativecount+1

elif i=='Opositive':

Opositivecount=Opositivecount+1

elif i=='Onegative':

Onegativecount=Onegativecount+1

print("Blood Group Count\n")

print("Bpositivecount=",Bpositivecount)

print("Bnegativecount=",Bnegativecount)

print("Apositivecount=",Apositivecount)

print("Anegativecount=",Anegativecount)

print("Abpositivecount=",Abpositivecount)

print("Abnegativecount=",Abnegativecount)

print("Opositivecount=",Opositivecount)

print("Onegativecount=",Onegativecount)

for i in range(1,norows):

l2=[]

for j in range(0,4):

y=sheet.cell\_value(i,j)

l2.append(y)

print(l2)

l2.clear()

print("\n\nDonors retrieved data")

def retrieve(bloodgrp):

for i in range(1,norows):

for j in range(0,1):

l3=[]

if (sheet.cell\_value(i,0)==bloodgrp):

for k in range(0,4):

y=sheet.cell\_value(i,k)

l3.append(y)

print(l3)

l3.clear()

# all data of respective blood group

print("\nData of Bpositive")

retrieve("Bpositive")

print("\nData of Bnegative")

retrieve("Bnegative")

print("\nData of Apositive")

retrieve("Apositive")

print("\nData of Anegative")

retrieve("Anegative")

print("\nData of Abpositive")

retrieve("Abpositive")

print("\nData of Abnegative")

retrieve("Abnegative")

print("\nData of Opositive")

retrieve("Opositive")

print("\nData of Onegative")

retrieve("Onegative")

print("\nReciepents\n")

Bpositivecountr=0

Bnegativecountr=0

Apositivecountr=0

Anegativecountr=0

Abpositivecountr=0

Abnegativecountr=0

Opositivecountr=0

Onegativecountr=0

for i in range(1,norows):

y=str(sheet.cell\_value(i,5))

l1.append(y)

# count of respective blood group in reciepents

for i in l1:

if i=='Bpositive':

Bpositivecountr=Bpositivecountr+1

elif i=='Bnegative':

Bnegativecountr=Bnegativecountr+1

elif i=='Apositive':

Apositivecountr=Apositivecountr+1

elif i=='Anegative':

Anegativecountr=Anegativecountr+1

elif i=='Abpositive':

Abpositivecountr=Abpositivecountr+1

elif i=='Abnegative':

Abnegativecountr=Abnegativecountr+1

elif i=='Opositive':

Opositivecountr=Opositivecountr+1

elif i=='Onegative':

Onegativecountr=Onegativecountr+1

print("\nBlood Group Count\n")

print("Bpositivecount=",Bpositivecountr)

print("Bnegativecount=",Bnegativecountr)

print("Apositivecount=",Apositivecountr)

print("Anegativecount=",Anegativecountr)

print("Abpositivecount=",Abpositivecountr)

print("Abnegativecount=",Abnegativecountr)

print("Opositivecount=",Opositivecountr)

print("Onegativecount=",Onegativecountr)

for i in range(1,norows):

l2=[]

for j in range(5,9):

y=sheet.cell\_value(i,j)

l2.append(y)

print(l2)

l2.clear()

print("\n\nRecievents retrieved data")

def retriever(bloodgrp):

for i in range(1,norows):

for j in range(5,6):

l3=[]

if (sheet.cell\_value(i,5)==bloodgrp):

for k in range(5,9):

y=sheet.cell\_value(i,k)

l3.append(y)

print(l3)

l3.clear()

# all data of respective blood group

print("\nData of Bpositive")

retriever("Bpositive")

print("\nData of Bnegative")

retriever("Bnegative")

print("\nData of Apositive")

retriever("Apositive")

print("\nData of Anegative")

retriever("Anegative")

print("\nData of Abpositive")

retriever("Abpositive")

print("\nData of Abnegative")

retriever("Abnegative")

print("\nData of Opositive")

retriever("Opositive")

print("\nData of Onegative")

retriever("Onegative")

print("\n\nAvailability of Blood Groups\n")

if(Apositivecount>=Apositivecountr):

print("Blood group A+ is available")

else:

print("Blood group A+ is not available")

if(Anegativecount>=Anegativecountr):

print("Blood group A- is available")

else:

print("Blood group A- is not available")

if(Bpositivecount>=Bpositivecountr):

print("Blood group B+ is available")

else:

print("Blood group B+ is not available")

if(Bnegativecount>=Bnegativecountr):

print("Blood group B- is available")

else:

print("Blood group B- is not available")

if(Abpositivecount>=Abpositivecountr):

print("Blood group AB+ is available")

else:

print("Blood group AB+ is not available")

if(Abnegativecount>=Abnegativecountr):

print("Blood group AB- is available")

else:

print("Blood group AB- is not available")

if(Opositivecount>=Opositivecountr):

print("Blood group O+ is available")

else:

print("Blood group O+ is not available")

if(Onegativecount>=Onegativecountr):

print("Blood group O- is available")

else:

print("Blood group O- is not available")

r=norows

while(1):

ch=str(input("Do you want to add another donor?(y or no)"))

if ch=='y':

name=input("Enter name:")

age=int(input("Enter age:"))

bg=input("Enter blood group:")

date=dt.datetime.today().strftime("%m/%d/%Y")

sheet1.cell(row=r,column=1).value=bg

sheet1.cell(row=r,column=2).value=name

sheet1.cell(row=r,column=3).value=age

sheet1.cell(row=r,column=4).value=date

r=r+1

wb1.save("C:/Users/DELL/Desktop/bloodbnk/Database.xlsx")

else:

break

else:

print("\n\tIncorrect password!!!")

else:

print("\n\tIncorrect Username!!")