

INSTITUTO TECNOLÓGICO SUPERIOR DE GUASAVE

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GRUPO 8

PROYECTO FINAL

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INTRODUCCIÓN

En la actualidad la tecnología esta llegando a todos lados, y hoy en día hasta las compras son por internet, desde muebles, hasta ropa, en internet encuentras lo que sea y puedes adquirirlo con solo hacer un click. Por ello los programadores que elaboran esas llamativas paginas de internet son los encargados de analizar los datos de los productos que ofrecerán en su mercado y a sus clientes.

En este proyecto, lo que haremos será analizar listas en Python las cuales llevan sublistas dentro y de esa manera, seleccionar los datos que se requieran, como lo son, saber que productos se venden más, que productos se buscan mas o por el contrario cuales son los productos menos buscados y menos vendidos.

DEFINICIÓN DEL CODIGO

#los procesos de los bucles se repiten y se repiten, por ello solos los primeros estan comentados

#si se ven "print(xxxx)" comentados a lo largo del codigo es para que cuando revise pueda checar esas variables

#comenzemos!!!!!

#el usuario es "emtech" y la contraseña "caso1"

#usamos el imput para pedir datos al usuario

usuario=input("Escriba su nombre de usuario: ")

contraseña=input("Escriba su contraseña:")

#el ciclo whiles es para que en el caso de poner una contraseña incorrecta, nos devuelva al imput, esto sera hasta que se digite la contraseña correcta

while usuario!="emtech" and contraseña!="caso1":

print("contraseña incorrecta, intentelo de nuevo")

usuario=input("Escriba su nombre de usuario: ")

contraseña=input("Escriba su contraseña:")

ventas =[]

#agregamos los datos de el proyecto de la pagina de github

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- [3, 'Procesador AMD Ryzen 5 2600, S-AM4, 3.40GHz, Six-Core, 16MB L3 Cache, con Disipador Wraith Stealth', 3089, 'procesadores', 987],
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- [8, 'Procesador Intel Core i5-9600K, S-1151, 3.70GHz, Six-Core, 9MB Smart Cache (9na. Generiación Coffee Lake)', 5399, 'procesadores', 8],
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- [73, 'Samsung Smart TV LED UN55TU7000FXZX 55, 4K Ultra HD, Widescreen, Negro/Gris', 10559, 'pantallas', 4],
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]
#usamos el ciclo for para guardar en la variable solo un dato de la lista de
lifestore_sales
for i in lifestore_sales:
 ventas_.append(i[1])
#print(ventas_)
veces=1
numero=[]
#usamos el ciclo while para contar cuantas veces se repite un mismo valor
while veces!=97:
 numero.append(ventas_.count(veces))
 veces+=1
```

```
#print(numero)
#print(len(numero))
||=DI
beces_ID=[]
#usamos nuevamente el ciclo for para tomar solamente el primer dato de cada lista
for e in lifestore_products:
 ID.append(e[0])
#print(ID)
veces ID=[]
iterador=0
si=1
#usamos este bucle for para juntar dos listas en una sola
for iterador in numero:
 veces_ID.append([iterador,si])
 si+=1
beces_ID=sorted(veces_ID)
print("Los 5 productos con mayor numero de ventas son:")
print(beces ID[91:96])
print("-----")
busquedas=[]
for z in lifestore_searches:
 busquedas.append(z[1])
#print(busquedas)
veces=1
numero_bus=[]
while veces!=97:
```

```
numero_bus.append(busquedas.count(veces))
 veces+=1
#print(numero_bus)
#print(len(numero_bus))
bus_ID=[]
vus_ID=[]
number=1
for y in numero_bus:
 bus ID.append([y,number])
 number+=1
#print(bus_ID)
vus_ID=sorted(bus_ID)
print("Los 10 productos con mayores busquedas son: ")
print(vus_ID[86:96])
print("-----")
categorias=[]
for x in lifestore_products:
 categorias.append(x[3])
#print(categorias)
veces ID categoria=[]
u=0
for v in veces_ID:
 veces ID categoria.append([v,categorias[u]])
 u+=1
#print(veces_ID_categoria)
procesadores=[]
Procesadores=[]
for t in veces_ID_categoria:
```

```
if 'procesadores' in t:
  procesadores.append(t)
  #print(procesadores)
Procesadores=sorted(procesadores)
print("Los 5 productos con menos ventas de los procesadores son:")
print(Procesadores[0:5])
print("----")
categorias=[]
for w in lifestore_products:
 categorias.append(w[3])
#print(categorias)
veces_ID_categoria=[]
u=0
for s in veces ID:
 veces ID categoria.append([s,categorias[u]])
 u+=1
#print(veces ID categoria)
tarjetas video=[]
tarjeta_video=[]
for r in veces_ID_categoria:
 if 'tarjetas de video' in r:
  tarjetas video.append(r)
#print(tarjetas_video)
tarjeta_video=sorted(tarjetas_video)
print("Los 5 productos con menos ventas de tarjetas de video son:")
```

```
print(tarjeta_video[0:5])
categorias=[]
for q in lifestore_products:
 categorias.append(q[3])
#print(categorias)
veces ID categoria=[]
u=0
for p in veces ID:
 veces_ID_categoria.append([p,categorias[u]])
 u+=1
#print(veces ID categoria)
tarjetas_madre=[]
tarjemadre=[]
for o in veces_ID_categoria:
 if 'tarjetas madre' in o:
  tarjetas_madre.append(o)
#print(tarjetas madre)
tarjemadre=sorted(tarjetas madre)
print("Los 5 productos con menos ventas de tarjetas madre son:")
print(tarjemadre[0:5])
print("----")
categorias=[]
for n in lifestore_products:
 categorias.append(n[3])
```

```
#print(categorias)
veces_ID_categoria=[]
u=0
for m in veces_ID:
 veces_ID_categoria.append([m,categorias[u]])
 u+=1
#print(veces_ID_categoria)
discos duros=[]
disco duro=[]
for I in veces ID categoria:
 if 'discos duros' in I:
  discos_duros.append(I)
#print(discos_duros)
disco_duro=sorted(discos_duros)
print("Los 5 productos con menos ventas de tarjetas madre son:")
print(disco duro[0:5])
print("----")
categorias=[]
for k in lifestore_products:
 categorias.append(k[3])
#print(categorias)
veces ID categoria=[]
u=0
for j in veces_ID:
 veces_ID_categoria.append([j,categorias[u]])
 u+=1
```

```
#print(veces_ID_categoria)
memorias_usb=[]
memori=[]
for h in veces_ID_categoria:
 if 'memorias usb' in h:
  memorias_usb.append(h)
#print(memorias usb)
memori=sorted(memorias usb)
print("Los 5 productos con menos ventas de memorias usb son:")
print(memori[0:5])
print("(Solo existen dos productos de memorias usb)")
print("----")
categorias=[]
for g in lifestore_products:
 categorias.append(g[3])
#print(categorias)
veces ID categoria=[]
u=0
for f in veces ID:
 veces_ID_categoria.append([f,categorias[u]])
 u+=1
#print(veces_ID_categoria)
pantallas=[]
panta=[]
for d in veces_ID_categoria:
 if 'pantallas' in d:
```

```
pantallas.append(d)
#print(pantallas)
panta=sorted(pantallas)
print("Los 5 productos con menos ventas de pantallas son:")
print(panta[0:5])
print("----")
categorias=[]
for aa in lifestore products:
 categorias.append(aa[3])
#print(categorias)
veces ID categoria=[]
u=0
for bb in veces_ID:
 veces_ID_categoria.append([bb,categorias[u]])
 u+=1
#print(veces_ID_categoria)
bocinas=[]
pocina=[]
for cc in veces_ID_categoria:
 if 'bocinas' in cc:
  bocinas.append(cc)
#print(bocinas)
pocina=sorted(bocinas)
print("Los 5 productos con menos ventas de bocinas son:")
print(pocina[0:5])
```

```
print("-----")
categorias=[]
for dd in lifestore_products:
 categorias.append(dd[3])
#print(categorias)
veces_ID_categoria=[]
u=0
for ee in veces ID:
 veces ID categoria.append([ee,categorias[u]])
 u+=1
#print(veces_ID_categoria)
audifonos=[]
audi_fonos=[]
for ff in veces_ID_categoria:
 if 'audifonos' in ff:
  audifonos.append(ff)
#print(audifonos)
audi fonos=sorted(audifonos)
print("Los 5 productos con menos ventas de audifonos son:")
print(audi_fonos[0:5])
print("-----")
categorias=[]
for za in lifestore_products:
 categorias.append(za[3])
#print(categorias)
```

```
bus_ID_categoria=[]
u=0
for acc in bus_ID:
 bus_ID_categoria.append([acc,categorias[u]])
 u+=1
#print(bus_ID_categoria)
procesadores=[]
Procesadores=[]
for ab in bus_ID_categoria:
 if 'procesadores' in ab:
  procesadores.append(ab)
#print(procesadores)
Procesadores=sorted(procesadores)
print("Los 10 productos con menos busquedas de los procesadores son:")
print(Procesadores[0:10])
print("-----")
categorias=[]
for zzz in lifestore_products:
 categorias.append(zzz[3])
#print(categorias)
bus_ID_categoria=[]
u=0
for yyy in bus_ID:
 bus_ID_categoria.append([yyy,categorias[u]])
```

```
#print(bus_ID_categoria)
tarjetas_video=[]
tarjevideo=[]
for xxx in bus_ID_categoria:
 if 'tarjetas de video' in xxx:
  tarjetas video.append(xxx)
#print(tarjetas_video)
tarjevideo=sorted(tarjetas_video)
print("Los 10 productos con menos busquedas de las tarjetas de video son:")
print(tarjevideo[0:10])
categorias=[]
for www in lifestore_products:
 categorias.append(www[3])
#print(categorias)
bus ID categoria=[]
u=0
for vvv in bus ID:
 bus_ID_categoria.append([vvv,categorias[u]])
 u+=1
#print(bus_ID_categoria)
```

u+=1

```
tarjetas_madre=[]
tarjemadre=[]
for uuu in bus_ID_categoria:
 if 'tarjetas madre' in uuu:
  tarjetas_madre.append(uuu)
#print(tarjetas_madre)
tarjemadre=sorted(tarjetas madre)
print("Los 10 productos con menos busquedas de las tarjetas madre son:")
print(tarjemadre[0:10])
print("-----")
categorias=[]
for ttt in lifestore_products:
 categorias.append(ttt[3])
#print(categorias)
bus_ID_categoria=[]
u=0
for sss in bus ID:
 bus ID categoria.append([sss,categorias[u]])
 u+=1
#print(bus ID categoria)
discos_duros=[]
discos=[]
for rrr in bus_ID_categoria:
```

```
if 'discos duros' in rrr:
  discos_duros.append(rrr)
#print(discos_duros)
discos=sorted(discos_duros)
print("Los 10 productos con menos busquedas de discos duros son:")
print(discos[0:10])
print("----")
categorias=[]
for qqq in lifestore_products:
 categorias.append(qqq[3])
#print(categorias)
bus_ID_categoria=[]
u=0
for ppp in bus ID:
 bus_ID_categoria.append([ppp,categorias[u]])
 u+=1
#print(bus ID categoria)
memorias_usb=[]
memori=[]
for ooo in bus_ID_categoria:
 if 'memorias usb' in ooo:
  memorias_usb.append(ooo)
#print(memorias_usb)
```

```
memori=sorted(memorias_usb)
print("Los 10 productos con menos busquedas de memorias usb son:")
print(memori[0:10])
print("(Solo hay dos productos de memorias usb)")
categorias=[]
for nnnn in lifestore_products:
 categorias.append(nnnn[3])
#print(categorias)
bus_ID_categoria=[]
u=0
for mmm in bus ID:
 bus_ID_categoria.append([mmm,categorias[u]])
 u+=1
#print(bus ID categoria)
pantallas=[]
panta=[]
for III in bus_ID_categoria:
 if 'pantallas' in III:
  pantallas.append(III)
#print(pantallas)
panta=sorted(pantallas)
print("Los 10 productos con menos busquedas de pantallas son:")
print(panta[0:10])
```

```
print("-----")
categorias=[]
for kkk in lifestore_products:
 categorias.append(kkk[3])
#print(categorias)
bus_ID_categoria=[]
u=0
for jjj in bus ID:
 bus ID categoria.append([jjj,categorias[u]])
 u+=1
#print(bus_ID_categoria)
bocinas=[]
pocinas=[]
for iii in bus_ID_categoria:
 if 'bocinas' in iii:
  bocinas.append(iii)
#print(bocinas)
pocinas=sorted(bocinas)
print("Los 10 productos con menos busquedas de bocinas son:")
print(pocinas[0:10])
print("-----")
categorias=[]
for hhh in lifestore_products:
```

```
categorias.append(hhh[3])
#print(categorias)
bus_ID_categoria=[]
u=0
for ggg in bus_ID:
 bus_ID_categoria.append([ggg,categorias[u]])
 u+=1
#print(bus ID categoria)
audifonos=[]
audi_fonos=[]
for fff in bus_ID_categoria:
 if 'audifonos' in fff:
  audifonos.append(fff)
#print(audifonos)
audi_fonos=sorted(audifonos)
print("Los 10 productos con menos busquedas de audifonos son:")
print(audi_fonos[0:10])
#Fin del codigo!!!!!!
```

SOLUCIÓN AL PROBLEMA

Utilizando el código de Python que yo mismo elabore, me he percatado de que existen productos que las personas simplemente no frecuentan, no compran y no buscan, lo cual es una perdida para la empresa por lo que el seguir llenando almacenes con estos productos no seria factible. Por otro lado hay productos que salen "como pan caliente" y los usuarios frecuentan mucho en línea. Por ejemplo el disco duro "SSD Kingston A400, 120GB, SATA III, 2.5", 7mm" y el procesador "Procesador AMD Ryzen 5 2600, S-AM4, 3.40GHz, Six-Core, 16MB L3 Cache, con Disipador Wraith Stealth" son ejemplos de los productos mas comprados y que a su ves también se encuentran en el top de los mas buscados en internet por lo que, el adquirirlos es muy factible, al contrario de productos como el procesador "Procesador Intel Core i5-9600K, S-1151, 3.70GHz, Six-Core, 9MB Smart Cache (9na. Generiación - Coffee Lake)", los audífonos "ASUS Audífonos Gamer ROG Theta 7.1, Alámbrico, USB C, Negro" los cuales no han tenido ninguna compra, asi como este para existen mas productos en diferentes categorías, y la solución que propongo, es la de invertir en publicidad para que dichos artículos llamen la atención de los clientes y si los resultados son negativos, dejar de comprarlos para nuestra tienda.

CONCLUSIÓN

Después de haber realizado el código en Python el cual organiza toda la información de listas para darnos datos confiables llego a la conclusión de que el uso de Python para el análisis de datos es una buena forma de implementarlo, pues con certeza podemos ver de forma clara cualquier tipo de información que deseemos, solo es cuestión de saber como usarlo. Al inicio solo veía números y productos y al final, pude ver como toda la valiosa información, la cual es útil para saber como actuar, estaba ahí almacenada. Como conclusión, el uso de bucles y condicionales hacen las tediosas tareas de analizar grandes pilas de datos sea mucho mas sencillo para cualquier usuario.