```
import pandas as pd
In [ ]:
          import numpy as np
          import seaborn as sns
          products = pd.read csv("products.csv")
In [ ]:
In [ ]:
          products.head()
             product_id
                            sku
                                      name
                                            marca_value
                                                                 short_description analytic_category
Out[]:
                                    Pañales
                                   CHELINO
                                                                    Los pañales
                                                                                                     https
                                      LOVE
          0
                   7349 165774
                                                  Chelino <strong>Chelino</strong>,
                                                                                             Infantil
                                  Talla3 4-10
                                                                           que p...
                                         KG
                                 36unidades
                                    Pañales
                                   CHELINO
                                                             Los pañales Chelino
                                                                                                     https
                                      LOVE
          1
                   7347 165776
                                                  Chelino
                                                                  que presentan un
                                                                                             Infantil
                                      Talla5
                                                                         novedo...
                                   13-18 KG
                                 30unidades
                                    Pañales
                                                              Pingo es el primer
                                                                                                     https
          2
                  50282 230154
                                  Pingo Maxi
                                                    Pingo
                                                                pañal ecológico con
                                                                                             Infantil
                                   T4 40 uds
                                                                            cuat...
                                    Pañales
                                   CHELINO
                                                                                                     https
                                                            Los pañales Chelino,
                                      LOVE
          3
                   7348 165775
                                                  Chelino
                                                                                             Infantil
                                  Talla4 9-15
                                                           que presentan un noved...
                                         KG
                                 34unidades
                                      Dodot
                                                              ¿Qué le pides a un
                                                                                                     https
                                    Pañal T4
          4
                  24517 011905
                                                   Dodot
                                                                                               NaN
                                                                 pañal? ¿Absorción
                                     9-15Kg
                                                                         máxima...
                                     30unds
In [ ]:
          products.shape
          (27953, 7)
Out[]:
In [ ]:
          products.info()
```

```
<class 'pandas.core.frame.DataFrame'>
        RangeIndex: 27953 entries, 0 to 27952
        Data columns (total 7 columns):
                                Non-Null Count
             Column
                                                Dtype
             -----
                                -----
        - - -
                                               ----
             product_id
         0
                                27953 non-null int64
         1
             sku
                                27953 non-null object
         2
             name
                                27939 non-null object
         3
             marca value
                                27921 non-null object
             short description 27930 non-null object
         5
             analytic_category 24416 non-null object
             picture
                                27947 non-null object
        dtypes: int64(1), object(6)
        memory usage: 1.5+ MB
In [ ]: products[products.duplicated()].shape
        (0, 7)
Out[]:
        id y sku
        products['product id'].value counts()[:3]
        7349
                 1
Out[]:
        45310
                 1
        45328
                 1
        Name: product id, dtype: int64
In [ ]: | products[products.duplicated(["product id"])].head()
```

Out[]:	pro	duct_id	sku	name	marca_value	short_description	analytic_category	
	3067	5572	358838	Aceite Corporal de Calendula Bebe Weleda 200ml	Weleda	Tratamiento protector para pieles sensibles	Infantil	https://ww /ı
	3068	4629	358820	Crema Facial Bebe Calendula Weleda 50ml	Weleda	Crema facial para bebés rica en extracto de	Infantil	https://ww /ı
	3097	5574	150402	Champu y Gel de Ducha de Calendula Bebe Weleda	Weleda	Limpieza extra suave para cabello y piel de	Infantil	https://ww /
	3098	5573	357905	Leche Corporal de Calendula Bebe Weleda 200ml	Weleda	Leche corporal indicada para el cuidado dia	Infantil	https://ww /
	3269	5575	185501	Baño de Crema de Calendula Bebe 200ml	Weleda	Crema de caléndula ideal para los primeros 	Infantil	https://ww /
In []:	products	s.drop_	_duplic	ates(subs	set="product	t_id", keep="fi	rst", inplace=	True)
In []:	products	s[produ	ıcts.du	plicated(["product :	id"])].shape		
Out[]:	(0, 7)					·		
In []:	product	s.shape	3					
Out[]:	(23183,	7)						
In []:	products	s[produ	ıcts["p	roduct_ic	l"]== 5572]			
Out[]:	pro	duct_id	sku	name	marca_value	short_description	analytic_category	
	1806	5572	358838	Weleda Bebé Aceite de Caléndula 200 ml	Weleda	Tratamiento protector para pieles sensibles	Infantil	https://ww /
In []:	sum(prod	ducts['	'produc	t_id"].va	nlue_counts	() > 1)		

```
0
Out[]:
          sum(products["product id"].value counts() == 1)
In [
          23183
Out[ ]:
          sum(products["sku"].value counts() == 1)
In [ ]:
          23173
Out[]:
          sum(products["sku"].value counts() > 1)
In [ ]:
Out[]:
          products[products.duplicated(["sku"])]
                 product_id
                                                 sku
                                                                    marca value short description anal
Out[]:
                                                             name
                                                          Sebamed
                                                           Champú
                                                                                    Champú sin
           7452
                       7194
                              sebamed.champu-361303
                                                      Dermatológico
                                                                        Sebamed
                                                                                    jabón anticaspa
                                                      Anticaspa 500
                                                                                   para el lavado d...
                                                             Avene
                                                                                      Maquillaje
                                                         Couvrance
                                                                                       compacto en
          11091
                        678
                                           a3-200181
                                                                          Avene
                                                          Compacto
                                                                                   crema para pieles
                                                         Arena 10gr
                                                                                              se...
                                                       Phytocolor Kit
                                                                                    Tinte para el
                                                          Color 6AC
          11464
                       8337
                                     Phytocolor-PH969
                                                                           Phyto
                                                                                     pelo de que no
                                                       Rubio Oscuro
                                                                                    daña el cabell...
                                                         Caoba Co...
                                                          Sebamed
                                                                                       Aceite de
          15308
                             serv201939.232504-201939
                                                           Aceite de
                                                                        Sebamed
                                                                                   ducha, ideal para
                                                       Ducha 200 ml
                                                                                    la <strong>higi...
                                                           Femintim
                                                                                      Gel diario
          25010
                       4525
                                308056.152223-152223
                                                          Adulto Gel
                                                                            Leti
                                                                                      intimo. \n
                                                          íntimo Leti
          products[products["sku"]== "a3-200181"]
                 product_id
                                            name marca_value short_description analytic_category
Out[]:
                                   sku
                                                                <strong>Avene
                                           Avene
                                                                                                    https
                                                                       Couvrance
                            a3-200181 Couvrance
           6439
                       4194
                                                                                              NaN
                                                         Avene
                                                                       Compacto:
                                        Compacto
                                                                       </strong>...
                                           Avene
                                                                    Maquillaje
                                        Couvrance
                                                                                                    https
                                                                                       Cosmética y
                                                                     compacto en
          11091
                        678 a3-200181
                                                         Avene
                                        Compacto
                                                                                            Belleza
                                                                 crema para pieles
                                            Arena
                                             10gr
```

OJO. Hay unos SKU repetidos - Qué hacemos?

Ver que los cambios sean iguales en los otros df

```
sum(products["sku"].value counts() > 1) & sum(products["product id"].value d
Out[ ]:
         products[products["product id"] == 2493]
              product id
                                   name marca value short description analytic category
Out[]:
                          sku
                                   Crema
                                                       Esta crema
                                                                                   https://v
                               Reafirmante
                                                               está
         2191
                   2493 152792
                                                Isdin
                                                                             Infantil
                                  Woman
                                                        especialmente
                               Isdin 150ml
                                                       indicada para...
        pictures
         products["picture"].isna().sum()
Out[]:
         products["picture"].head(6)
              https://www.mifarma.es/media/catalog/product/1...
Out[]:
              https://www.mifarma.es/media/catalog/product/1...
              https://www.mifarma.es/media/catalog/product/2...
         3
              https://www.mifarma.es/media/catalog/product/1...
              https://www.mifarma.es/media/catalog/product/0...
              https://www.mifarma.es/media/catalog/product/0...
        Name: picture, dtype: object
In [ ]: products["picture"].value counts()[:5]
        https://www.mifarma.es/media/catalog/productno selection
                                                                                    3
Out[ ]:
        https://www.mifarma.es/media/catalog/product/1/6/165774 .jpg
                                                                                    1
         https://www.mifarma.es/media/catalog/product/2/4/245100 391342 .jpg
                                                                                    1
         https://www.mifarma.es/media/catalog/product/1/5/152497 .jpg
                                                                                    1
         https://www.mifarma.es/media/catalog/product/8/0/80304935 .jpg
                                                                                    1
        Name: picture, dtype: int64
In [ ]: products[products["picture"] == "https://www.mifarma.es/media/catalog/product
```

5 of 21 4/19/22, 23:42

Los registros son diferentes. En este caso no sirve esta variable.

```
name marca value short description analytic category
                product id
                              sku
Out[]:
                                       Pro-
                                                           Pro-Digest es
                                                                                           https://wv
                                      Digest
                                                Nutricion
          15519
                      4464
                           157259
                                                           un complemento
                                                                                 Herbolario
                                     2,6g 20
                                                  Center
                                                            alimenticio na...
                                   Capsulas
                                       PHB
                                     Classic
                                                                                           https://wv
                                    Sensible
                                                           PHB Classic
          20402
                     27765 154583
                                                    PHB
                                                                                   Higiene
                                     Cepillo
                                                            Sensible\n
                                         de
                                     Dientes
                                                              Reduce y
                                     Epil-Off
                                                                                           https://wv
                                                               combaten la
          24992
                     22169 195156
                                          3
                                            Otras Marcas
                                                                                      NaN
                                                          aparición del vello
                                   Ampollas
                                                                     en...
         pictures sep = products["picture"].str.split("/", expand=True)
In [ ]:
         pictures_sep[6].value_counts()[:3]
               10252
Out[]:
          3
                 1846
          2
                 1376
          Name: 6, dtype: int64
         pictures_sep[pictures_sep[6].isna()].head()
          #Estos no tienen imag
                                               3
                                                       4
                                                                              6
                                                                                    7
                    0
                         1
                                        2
                                                                        5
                                                                                          8
Out[]:
           3154
                 NaN
                      NaN
                                     NaN
                                            NaN
                                                    NaN
                                                                      NaN
                                                                            NaN
                                                                                  NaN
                                                                                        NaN
           3720
                 NaN
                      NaN
                                     NaN
                                            NaN
                                                    NaN
                                                                            NaN
                                                                                        NaN
                                                                      NaN
                                                                                  NaN
          12870
                 NaN
                      NaN
                                     NaN
                                            NaN
                                                    NaN
                                                                      NaN
                                                                            NaN
                                                                                  NaN
                                                                                        NaN
          15519
                https:
                            www.mifarma.es
                                           media
                                                 catalog productno_selection
                                                                           None
                                                                                 None
                                                                                       None
          16328
                 NaN NaN
                                     NaN
                                            NaN
                                                    NaN
                                                                      NaN
                                                                            NaN
                                                                                  NaN
                                                                                        NaN
          pictures_sep[7].value_counts()[:3]
               3058
Out[]:
               2943
               2602
         Name: 7, dtype: int64
         pic con split = products.join(pictures sep)
         pic con split.head()
```

Out[]:		product_id	sku	name	marca_value	short_description	analytic_category	
	0	7349	165774	Pañales CHELINO LOVE Talla3 4-10 KG 36unidades	Chelino	Los pañales Chelino , que p	Infantil	https
	1	7347	165776	Pañales CHELINO LOVE Talla5 13-18 KG 30unidades	Chelino	Los pañales Chelino que presentan un novedo	Infantil	https
	2	50282	230154	Pañales Pingo Maxi T4 40 uds	Pingo	Pingo es el primer pañal ecológico con cuat	Infantil	https
	3	7348	165775	Pañales CHELINO LOVE Talla4 9-15 KG 34unidades	Chelino	Los pañales Chelino, que presentan un noved	Infantil	https
	4	24517	011905	Dodot Pañal T4 9-15Kg 30unds	Dodot	¿Qué le pides a un pañal? ¿Absorción máxima	NaN	https
In []:	pi	.c_con_spl	it[pic_	_con_split	[6]== "1"].	head()		

Out[]:	pro	oduct_id	sku	name	marca_value	short_description	analytic_category	
	0	7349	165774	Pañales CHELINO LOVE Talla3 4-10 KG 36unidades	Chelino	Los pañales Chelino , que p	Infantil	htti
	1	7347	165776	Pañales CHELINO LOVE Talla5 13-18 KG 30unidades	Chelino	Los pañales Chelino que presentan un novedo	Infantil	htti
	3	7348	165775	Pañales CHELINO LOVE Talla4 9-15 KG 34unidades	Chelino	Los pañales Chelino, que presentan un noved	Infantil	htti
	7	60743	183816	Cumlaude Sunlaude Niños Ultrafluido Mineral SP	Rilastil	Muy alta protección solar formulada con <st< th=""><th>Cosmética y Belleza</th><th>httį</th></st<>	Cosmética y Belleza	httį
	10	75634	160842	FreeLife by Bebe Cash 50 Pañales Talla 4 (7-18kg)	Freelife by bebe cash	Pañales especialmente diseñados para niños	Infantil	httį
In []:	#Algo	pueden	decir	los númer	os de las c	columnas 6 y 7 Pe	ro por lo visto) NC
	Shor	t desc	riptior	1				

```
In [ ]: description_sep = products["short_description"].str.split("<strong>", expand
In [ ]: description_sep[description_sep[2].notna()].head()
```

```
0
                                          1
                                                                   2
                                                                                    5
                                                                                          6
Out[]:
                           Chelino</strong>, que
                  Los
           0
                                 presentan un
                                              36unidades.</strong>\n None None None None
                  pañales
                                 novedoso di...
               Muy alta
                protección
                                              bebés desde el primer día y
                           filtros físicos</strong>
           7
                    solar
                                                                     None None None
                                                    niños/as</strong>....
                                 indicada para
                 formulada
                     con
                               Mussvital Loción
                                                                 Sin
          71
                            Hidratante</strong>
                                                                     None None None
                     >
                                               parabenos</strong>.\n
                                   es una fó...
                   Gel
                          pieles grasas o mixtas
                 limpiador
                                              sin jabón</strong> garantiza
          79
                             y con acné juvenil.
                                                                     None None None
                  indicado
                                                    una buena toleran...
                                       </st...
                     para
                 Blemil
                                   leche para
                                              hasta los 6 meses.</strong>
               Plus 1 Forte
         117
                             lactantes</strong>
                                                                     None None None
                                                         800 gr.\n
                             indicada para sa...
In [ ]:
         import re
         products["short description"] = products["short description"].str.replace(r
In [ ]: | products["short description"].head()
               Los pañales Chelino, que presentan un novedoso...
Out[]:
               Los pañales Chelino que presentan un novedoso ...
               Pingo es el primer pañal ecológico con cuatro ...
         2
         3
               Los pañales Chelino, que presentan un novedoso...
               ¿Qué le pides a un pañal? ¿Absorción máxima, q...
         Name: short description, dtype: object
         names
         descript con split = products.join(description sep)
In [ ]:
         products["name"].isna().sum() #Ya no hay missings en names!
Out[]:
         descript_con_split.shape
         (23183, 14)
Out[ ]:
In [ ]:
         products.shape
         (23183, 7)
Out[]:
         products[products.duplicated(["name"], keep=False)].head()
```

Out[]:		product_id	sku	name	marca_value	e short_descri	ption ar	nalytic_catego	ory
	1392	15433	163575	Listerine Zero 500ml	Listerine			Higie	https://
	1454	27786	175341	Singuladerm XpertSun Perfection Natural SPF 50 5g	Singuladern	Fotopro n mineral SPF: formato pol	30 en	Cosmética Belle	-
	3323	49144	370406	Sesderma Hidraloe Crema Contorno Ojos 15 ml	Sesderma	ilum		Cosmética Belle	•
	4359	4289	167926 <i>'</i>	Bioderma Atoderm Gel Moussant 500 ml	Bioderma	Gel limp reengra purifica	diario sante	Higie	https:// ne
	5405	47521	70407	Solgar Vitamina C 500 mg 90 comp masticables	Solga	Saborna	e con	Nutrici	https:// [·] ón
In []:	namec	san - n	roducts['namo"l c	tr cnlit("	", expand=	True)		
ти [].	Hallies	_3eb = b	i oducts [name 1.3	ci .spcic(, expand-	iiue)		
			1 / >						
In []:	names	_sep.tai							
In []: Out[]:		0		1 2	3	4	5	6 None	7
	27931	0 Exfoliante	Supernoch	e Atashi	75ml	None	None	None	None
		0		e Atashi e (Mungo)	75ml Bio				
	27931 27933	0 Exfoliante Soja	Supernoch	e Atashi e (Mungo) a de	75ml Bio	None Ecosana	None 500gr	None None	None None
	27931 27933 27935	0 Exfoliante Soja Trío	Supernoch Verd Sombr	e Atashi e (Mungo) a de e Cara	75ml Bio Ojos	None Ecosana Hipoalergénica Delicadas	None 500gr HYPO	None None Bell	None None
	27931 27933 27935 27939	0 Exfoliante Soja Trío Crema	Supernoch Verd Sombr	e Atashi e (Mungo) a de e Cara e Depilar	75ml Bio Ojos Pieles	None Ecosana Hipoalergénica Delicadas	None 500gr HYPO y	None None Bell Enrojecidas	None None 09 Bollebio
	27931 27933 27935 27939 27941	O Exfoliante Soja Trío Crema Pinzas	Supernoch Verd Sombr d	e Atashi e (Mungo) a de e Cara e Depilar k Cesta	75ml Bio Ojos Pieles Magnéticas	None Ecosana Hipoalergénica Delicadas Punta	None 500gr HYPO y Oblicua	None None Bell Enrojecidas U	None None 09 Bollebio Tweezers
	27931 27933 27935 27939 27941 27942	Exfoliante Soja Trío Crema Pinzas Grisi	Supernoch Verd Sombr d d	e Atashi e (Mungo) a de e Cara e Depilar k Cesta a de	75ml Bio Ojos Pieles Magnéticas Aloe	None Ecosana Hipoalergénica Delicadas Punta Vera	None 500gr HYPO y Oblicua None	None None Bell Enrojecidas U None	None None 09 Bollebio Tweezers None
	27931 27933 27935 27939 27941 27942 27943	Exfoliante Soja Trío Crema Pinzas Grisi Broche	Supernoch Verd Sombr d d Pac Cadenit	e Atashi e (Mungo) a de e Cara e Depilar k Cesta a de a Animal	75ml Bio Ojos Pieles Magnéticas Aloe Chupete	None Ecosana Hipoalergénica Delicadas Punta Vera MAM	None 500gr HYPO y Oblicua None Clip	None None Bell Enrojecidas U None Gris	None None 09 Bollebio Tweezers None
	27931 27933 27935 27939 27941 27942 27943 27944	Exfoliante Soja Trío Crema Pinzas Grisi Broche Espejo	Supernoch Verd Sombr d d Pac Cadenit Mifarm	e Atashi e (Mungo) a de e Cara e Depilar k Cesta a de a Animal o Sublime	75ml Bio Ojos Pieles Magnéticas Aloe Chupete Print	None Ecosana Hipoalergénica Delicadas Punta Vera MAM None	None 500gr HYPO y Oblicua None Clip None	None None Bell Enrojecidas U None Gris None	None None 09 Bollebio Tweezers None y None
	27931 27933 27935 27939 27941 27942 27943 27944 27950 27952	Exfoliante Soja Trío Crema Pinzas Grisi Broche Espejo Corrector	Supernoch Verd Sombr d d Pac Cadenit Mifarm Líquid Cocin	e Atashi e (Mungo) a de e Cara e Depilar k Cesta a de a Animal o Sublime	75ml Bio Ojos Pieles Magnéticas Aloe Chupete Print Ecológico	None Ecosana Hipoalergénica Delicadas Punta Vera MAM None PuroBio	None 500gr HYPO y Oblicua None Clip None Tono	None None Bell Enrojecidas U None Gris None 01	None None 09 Bollebio Tweezers None y None None
	27931 27933 27935 27939 27941 27942 27943 27944 27950 27952	Exfoliante Soja Trío Crema Pinzas Grisi Broche Espejo Corrector Plantoys S × 44 colu	Supernoch Verd Sombr d d Pac Cadenit Mifarm Líquid Cocin	e Atashi e (Mungo) a de e Cara e Depilar k Cesta a de a Animal o Sublime a Infantil	75ml Bio Ojos Pieles Magnéticas Aloe Chupete Print Ecológico de	None Ecosana Hipoalergénica Delicadas Punta Vera MAM None PuroBio	None 500gr HYPO y Oblicua None Clip None Tono None	None None Bell Enrojecidas U None Gris None 01 None	None None 09 Bollebio Tweezers None y None None

```
27931
                          Exfoliante Supernoche Atashi 75ml None
Out[]:
                                   Soja Verde (Mungo) Bio Ecosana
          27933
         27935
                              Trío Sombra de Ojos Hipoalergénica
                                   Crema de Cara Pieles Delicadas
          27939
                              Pinzas de Depilar Magnéticas Punta
         27941
                                        Grisi Pack Cesta Aloe Vera
         27942
                                   Broche Cadenita de Chupete MAM
         27943
         27944
                                 Espejo Mifarma Animal Print None
                    Corrector Líquido Sublime Ecológico PuroBio
         27950
         27952
                              Plantoys Cocina Infantil de Madera
         dtype: object
        nombre corto = nombre corto.str.replace(" None", "")
In [ ]:
In [ ]:
         nombre corto = nombre corto.str.title()
In [ ]:
         nombre corto.rename("nombre corto");
In [ ]:
          nombre corto = nombre corto.to frame().rename(columns= {0: "nombre corto"})
          #Aquí creamos una nueva columna con los nombres cortos( solo las 5 primeras
          products = products.join(nombre corto)
In [ ]:
         products.head()
            product_id
                          sku
                                          marca_value short_description analytic_category
                                    name
Out[]:
                                  Pañales
                                CHELINO
                                                            Los pañales
                                                                                         https://www
                                    LOVE
                                                            Chelino, que
          0
                  7349 165774
                                               Chelino
                                                                                  Infantil
                                                                                               /me
                                Talla3 4-10
                                                            presentan un
                                      KG
                                                             novedoso...
                               36unidades
                                  Pañales
                                CHELINO
                                                            Los pañales
                                                                                         https://www
                                    LOVE
                                                            Chelino que
          1
                  7347 165776
                                               Chelino
                                                                                  Infantil
                                                                                                /m€
                                    Talla5
                                                            presentan un
                                                                                                 1
                                 13-18 KG
                                                            novedoso ...
                               30unidades
                                  Pañales
                                                        Pingo es el primer
                                                                                         https://www
          2
                 50282 230154
                               Pingo Maxi
                                                         pañal ecológico
                                                                                  Infantil
                                                Pingo
                                                                                               /me
                                T4 40 uds
                                                            con cuatro ...
                                  Pañales
                                CHELINO
                                                            Los pañales
                                                                                         https://www
                                    LOVE
                                                            Chelino, que
          3
                  7348 165775
                                               Chelino
                                                                                  Infantil
                                                                                               /me
                                Talla4 9-15
                                                            presentan un
                                      KG
                                                             novedoso...
                               34unidades
                                    Dodot
                                                       ¿Qué le pides a un
                                                                                         https://www
                                 Pañal T4
          4
                 24517 011905
                                                Dodot pañal? ¿Absorción
                                                                                   NaN
                                                                                               /me
                                  9-15Kg
                                                            máxima, q...
                                  30unds
```

Ojo! Nombres repetidos... Esto podría ser lo mismo, sin embargo contrastar con los otros df.

Los sku tienen diferencias sutiles. Se podrían eliminar duplicados después de hacer limpieza de sku...

marca

Out[]:		product_id	sku	name	marca_value	short_description	an
	622 9467923 71051029 1031 SEF		162269	Prelox 60 Comprimidos	NaN	Ayuda contra la disfunción erectil.\n	
			157899	Dr Dunner Cinnulin 40 Capsulas	NaN	Cuida tus niveles de azúcar: Complemento alime	
			SERV262253X2-262253-262253	Interapothek Champu Anticaida 400 ml + 400 ml	NaN	Champú formulado con provitamina B5 especialme	
	4376	7108	152810	Dr Dunner Menosoy 60 Capsulas	NaN	Complemento alimenticio a base de extracto de	
	4451 513		317171x2-317171-317171	La Roche Posay Solucion Micelar 200ml + 200 ml		Solucion Micelar La Roche Posay Desmaquillante	
In []:	produ	ıcts["marc	ca_value"][622] = "prelox	Κ"			

/tmp/ipykernel 269695/4007907723.py:1: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs /stable/user_guide/indexing.html#returning-a-view-versus-a-copy products["marca value"][622] = "prelox"

```
In [ ]: products["marca value"][923] = "dr. dunner"
        products["marca value"][1029] = "interapothek"
```

/tmp/ipykernel 269695/2740116173.py:1: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs /stable/user guide/indexing.html#returning-a-view-versus-a-copy products["marca value"][923] = "dr. dunner" /tmp/ipykernel 269695/2740116173.py:2: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs /stable/user guide/indexing.html#returning-a-view-versus-a-copy products["marca value"][1029] = "interapothek"

```
In [ ]:
        products["marca value"][4376] = "dr. dunner"
        products["marca value"][4451] = "la roche posay"
        products["marca value"][5063] = "medela"
        products["marca value"][5738] = "dr. dunner"
        products["marca value"][5863] = "dr. dunner"
        products["marca_value"][5939] = "dr. dunner"
        products["marca value"][7308] = "medela"
        products["marca value"][9188] = "dr. dunner"
        products["marca_value"][9820] = "medela"
        products["marca value"][9188] = "dr. dunner"
        products["marca value"][9992] = "medela"
        products["marca value"][10281] = "medela"
        products["marca value"][11338] = "dr. dunner"
        products["marca_value"][11680] = "dr. dunner"
        products["marca value"][12641] = "dr. dunner"
        products["marca value"][14110] = "lierac"
        products["marca value"][16104] = "medela"
        products["marca value"][16774] = "mi rebotica"
        products["marca_value"][17680] = "mi rebotica"
        products["marca value"][18124] = "dr. dunner"
        products["marca value"][19842] = "medela"
        products["marca value"][20447] = "medela"
        products["marca value"][21037] = "dr. dunner"
        products["marca value"][24622] = "dr. dunner"
        products["marca value"][13094] = "rene furterer"
```

```
/tmp/ipykernel 269695/2746017985.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user quide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][4376] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][4451] = "la roche posay"
/tmp/ipykernel 269695/2746017985.py:3: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca_value"][5063] = "medela"
/tmp/ipykernel 269695/2746017985.py:4: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][5738] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:5: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user quide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][5863] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:6: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][5939] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:7: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][7308] = "medela"
/tmp/ipykernel 269695/2746017985.py:8: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user quide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][9188] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:9: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][9820] = "medela"
/tmp/ipykernel 269695/2746017985.py:10: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
```

```
/stable/user quide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][9188] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:11: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][9992] = "medela"
/tmp/ipykernel 269695/2746017985.py:12: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user quide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][10281] = "medela"
/tmp/ipykernel 269695/2746017985.py:13: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][11338] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:14: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user quide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][11680] = "dr. dunner"
/tmp/ipvkernel 269695/2746017985.pv:15: SettingWithCopvWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][12641] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:16: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][14110] = "lierac"
/tmp/ipykernel 269695/2746017985.py:17: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user quide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][16104] = "medela"
/tmp/ipykernel 269695/2746017985.py:18: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][16774] = "mi rebotica"
/tmp/ipykernel 269695/2746017985.py:19: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][17680] = "mi rebotica"
/tmp/ipykernel 269695/2746017985.py:20: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
```

```
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][18124] = "dr. dunner"
/tmp/ipvkernel 269695/2746017985.py:21: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][19842] = "medela"
/tmp/ipykernel 269695/2746017985.py:22: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][20447] = "medela"
/tmp/ipykernel 269695/2746017985.py:23: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][21037] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:24: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][24622] = "dr. dunner"
/tmp/ipykernel 269695/2746017985.py:25: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs
/stable/user guide/indexing.html#returning-a-view-versus-a-copy
  products["marca value"][13094] = "rene furterer"
```

In []: products[products["marca_value"] == "rene furterer"].head()

Out[]:		product_id	sl	ku name	marca_value	short_description	analytic_category	
	211	8704	2394	RENE furterei triphasic vht+ 8 frascos 5,5m	rene furterer	Triphasic VHT contrarresta la caída del cabell	Cosmética y Belleza	
	258	8650	1507	RENE furterei okara champu activadoi luz 200m	rene furterer	Champú activador de luz indicado para lucir un	Cosmetica y Relleza	httį
	605	8642	15110	RENE furterei 05 naturia champu seco 75m	rene furterer	Champú en seco que absorbe la grasa y las impu	Cosmética y Belleza	
	966	46294	150712dup	RENE Furterei Initia Olo Champu Volumen Vitalidad	rene furterer	Champú de uso frecuente indicado para la higie	Higiene	httį
	1006	8705	2394	RENE furterer ri 80 34 tratamiento anticaida 12 a	f rene furterer I	Tratamiento anticaída con una doble fórmula pa	Cosmética y Belleza	
In []:	produ	cts[produ	cts["mar	ca_value"]	.isna()]			
Out[]:		product_id	sku	name	marca_value	short_description	analytic_category	
	16276	5664	160250	Flammaspray 75ml	NaN	Quemaduras del Sol\n	Cosmética y Belleza	https
	26700	96969	190406	Loción Capilar Anticaída Forte Farline 100ml	NaN	Loción capilar anticaída concentrada indicada	Cosmética y Belleza	https

Quedan dos nulos en marca. A ver qué se puede hacer con ellos

```
In [ ]: products[products["marca_value"] == "interapothek"].head()
```

Out[]:		product_id	sku	name	marca_value	short_description	analytic_category	
	132	10090	375642	ia Bastoncillos de Seguridad 50ud	interapothek	Bastoncillos de algodón hidrófilo para la higi	Infantil	https://w
	198	898	156864	Interapothek Solucion Unica 500ml	interapothek	Interapothek Solucion Unica 500ml\n	Óptica	https://w
	318	956	328230	Interapothek Esponja Natural Grande	interapothek	La esponja natural de Interapothek limpia con	Infantil	https://w
	580	9506	165981	Interapothek Agua de Mar 100 ml	interapothek	Agua de mar\n	Higiene	https://w
	784	28095	482307	Interapothek Compresas Gasa Esteril c/50	interapothek	50 gasas esteriles para limpiar cualquier clas	Higiene	https://w

category

```
In [ ]: products["analytic category"].value counts()
         Cosmética y Belleza
                                  6821
Out[]:
         Higiene
                                  4334
         Infantil
                                  3857
         Herbolario
                                  2487
         Nutrición
                                  1461
         Ortopedia
                                   496
         Vida Íntima
                                   259
         Óptica
                                   195
                                   145
         Perfumeria
                                    45
         Veterinaria
         Name: analytic category, dtype: int64
In [ ]: products["analytic category"].unique()
         array(['Infantil', nan, 'Cosmética y Belleza', 'Óptica', 'Higiene',
                 'Herbolario', 'Ortopedia', 'Nutrición', 'Vida Íntima', 'Veterinaria', 'Perfumeria'], dtype=object)
         products["analytic category"].isna().sum()
In [ ]:
         3083
Out[]:
         # Las categorías se pueden tomar del otro df
In [ ]: products[products["analytic category"].isna()].head()
```

Out[]:	product_id	sku	name	marca_value	short_description	analytic_category	
	4 24517	011905	Dodot Pañal T4 9-15Kg 30unds	dodot	¿Qué le pides a un pañal? ¿Absorción máxima, q	NaN	https://www.i /mei /ţ
	5 11938	011896	Dodot Activity T3 De 4 A 10 Kg 56 Unidades	dodot	Pañales que mantienen la piel del culito seca	NaN	https://www.i /mei /ţ
	6 13109	011894	Dodot Pañal Sensitive T1 2-5Kg 30Unds	dodot	Pañales para recién nacido que evitan la irrit	NaN	https://www.i /mei /ţ
1.	4 12051	013687	Dodot Sensitive Pañal Primeras Semanas T/0 Has	dodot	Pañales Dodot para una máxima absorción de pip	NaN	https://www.i /mei /ţ
3	1 13122	011907	Dodot Pañal Pack Semanal T/5 13-18kg 25ud	dodot	Pañales pack semanal\n	NaN	https://www.i /mei /ţ

product_id - sku

Varios duplicados. El número es diferente al de sku duplicados. product_id conecta con órdenes. Importante verificar que hacen match.

sku

IMPORTANTE. El sku nos va a permitir integrar con dataset de categorías.

category

Hay 3537 nulos... Tomar del otro dataset y corregir. Cubrimos las categorías primarias... Se podría tirar un modelo con palabras para obtener categorías secundarias? Quizás no sea necesario. Pensar...

In []: products.head()

Out[]:		product_id	sku	name	marca_value	short_description	analytic_category	
	0	7349	165774	Pañales CHELINO LOVE Talla3 4-10 KG 36unidades	chelino	Los pañales Chelino, que presentan un novedoso	Infantil	https://www /me
	1	7347	165776	Pañales CHELINO LOVE Talla5 13-18 KG 30unidades	chelino	Los pañales Chelino que presentan un novedoso	Infantil	https://www /me
	2	50282	230154	Pañales Pingo Maxi T4 40 uds	pingo	Pingo es el primer pañal ecológico con cuatro	Infantil	https://www /me
	3	7348	165775	Pañales CHELINO LOVE Talla4 9-15 KG 34unidades	chelino	Los pañales Chelino, que presentan un novedoso	Infantil	https://www /me
	4	24517	011905	Dodot Pañal T4 9-15Kg 30unds	dodot	¿Qué le pides a un pañal? ¿Absorción máxima, q	NaN	https://www /me
In []:		uardo doc oducts.to			impiezal.cs	v")		