<b>0</b> 1000001	ead()  Product_ID Gen		_train.csv') cupation City_Cate	gory Stay_In_Cu A	urrent_City_Years	Marital_Stat	us Product	_Category_1	
<ul><li>3 1000001</li><li>4 1000002</li></ul>	P00087842 P00085442 P00285442	F 0- 17 F 0- 17 F 0- 17 M 55+	10 10 10 16	A A C	2 2 4+		0 0 0 0	1 12 12 8	
<pre>df_test=pd df_test.he      User_ID  0 1000004  1 1000009</pre>	Product_ID Gen P00128942 P00113442	lackFriday_t	cupation City_Cates 7	В	0	Marital_Stat	us Product	1	
<pre>3 1000010 4 1000011 ##Merging</pre>	P00288442 P00145342 P00053842  both train and an append (df_		1 1 1	B B C	4+		1 0	4	
<ul><li>0 1000001</li><li>1 1000001</li><li>2 1000001</li></ul>	P00069042 P00248942 P00087842	F 0- 17 F 0- 17 F 0- 17	10 10 10	A A A	2 2	Marital_Stat	0 0 0	3 1 12	
##Basic df.info() <class 'pa<br="">Int64Index Data colum # Colum</class>		M 55+  ame.DataFram ries, 0 to 2 columns):	233598 Non-Null Count	A C Dtype	2 4+		0	8	
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df.describ  count 7.8366 mean 1.0030	oat64(3), inage: 77.7+ MB e() User_ID Occu 670e+05 783667	upation Marita 7.000000 78366	al_Status	Category_1 Proc 667.000000 5.366196	537685.000000 9.844506	237858 12	3.000000 55 2.668605	<b>Purchase</b> 50068.000000 9263.968713	-
min 1.0000 25% 1.0015 50% 1.0030 75% 1.0044 max 1.0060	001e+06 0 519e+06 2 075e+06 7 178e+06 14 040e+06 20	0.000000 0.000000 0.000000 0.000000	0.491793 0.000000 0.000000 0.000000 1.000000	3.878160 1.000000 1.000000 5.000000 8.000000 20.000000	5.089093 2.000000 5.000000 9.000000 15.000000 18.000000	3 9 14 16	8.000000 9.000000 4.000000 5.000000	5023.065394 12.000000 5823.000000 8047.000000 2054.000000	
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	17 2 F 0- 17 2 M 55+	10 10 16	A A C ender'],drop_fi	irst=1)	2 2 4+	0 0 0		12 12 8	
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<ol> <li>P00248947</li> <li>P00087847</li> <li>P00085447</li> <li>P00285447</li> </ol>	2 0 0- 17 2 0 0- 17 2 0 0- 17	10 10 16	A A A C		2 2 2 4+	0 0 0		1 12 12 8	
<pre>df['Age']. array(['0-</pre>	unique()  17', '55+', e=object)  categorical df['Age'].map	'26-35', '46  feature Age p({'0-17':1,	6-50', '51-55', e using map fur ,'18-25':2,'26-	nction() -35':3,'36-45	5':4,'46-50':				Cate
<ul> <li>P00069047</li> <li>P000248947</li> <li>P00087847</li> <li>P00085447</li> <li>P00285447</li> </ul>	2 0 1 2 0 1 2 0 1 2 0 1 2 1 7	10 10 10 10 10	A A A C		Years Marital S  2  2  2  2  4+	O O O O	1	1 Product_ 3 1 12 12 8	_ateg
<pre>df_city=pd  df_city.he      B     C  0     0     0  1     0     0</pre>	.get_dummies		t using get_dumategory'],drop_						
	th the df and d	-	mes.						
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<pre>##drop Cit df.drop('C df.head()</pre>	y Category Fity_Category  D Gender Age  0 1	Ceature ',axis=1,ing Occupation		<b>y_Years Marital_</b> 2 2	Status Product_ 0 0		Product_Cate	<b>egory_2 Pro</b> NaN 6.0	oduct
<pre>2 P00087844 3 P00085444 4 P00285444 ## Missing df.isnull( Product_ID</pre>	2 0 1 2 0 1 2 1 7  Values ).sum()	10 10	0	2 2 2 4+	0 0 0 0	1 12 12 8		6.0 NaN 14.0 NaN	
Gender Age Occupation Stay_In_Cu Marital_St Product_Ca Product_Ca Product_Ca Purchase B C	rrent_City_Ye atus tegory_1 tegory_2 tegory_3	ears 2459 5458 2335	0 0 0 0 0 0 0 982						
dtype: int  ## Focus o df['Produc array([nan	n replacing at Category_2 , 6., 14., , 17., 13.,  t_Category_2 317 834	'].unique() 2., 8., 15 7., 18.])	ues 5., 16., 11.,	5., 3., 4.	, 12., 9.,				
2.0 70 16.0 61 15.0 54 5.0 37 4.0 36 6.0 23 11.0 20 17.0 19 13.0 15 9.0 8 12.0 7	498 687 114 165 705 575 230 104 054 177								
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<pre>df['Produc  df['Produc  0  ## Product</pre>	t_Category_2 _category_3 t_Category_3	']=df['Produ	.sum() sing values	].fillna(df[	'Product_Cat	egory_2'].	mode()[0]		
arr-	1., 17.,	., 4., 16	6., 15., 8.,	9 1~	, 12				
18. df['Produc 16.0 46 15.0 39 14.0 26 17.0 23 5.0 23 8.0 17	, 11., 10.]) t_Category_3 469 968 283 818 799 861	'].value_cou		9., 13., 6.	, 12., 3.,				
18.  df['Produc  16.0	, 11., 10.]) t_Category_3 469 968 283 818 799	'].value_com		9., 13., 6.	, 12., 3.,				
18.  df['Produc' 16.0	t_Category_3  469  968  283  818  799  861  532  115  849  888  621  691  585  501  878  uct_Category_  the missing t_Category_3	_3, dtype: if values with ']=df['Produ	unts()	].fillna(df[	Product_Cat	Category_1		egory_2 Pro	oduc
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df['Product 16.0	### The control of th		unts()  int64  h mode uct_Category_3'  Stay_In_Current_City  df['Stay_In_Cur /ipykernel_2428 future version n regex=True. ]=df['Stay_In_C  Stay_In_Current_City  Metal_Stay_In_C	Years Marital:  2 2 2 4+  8/2063355665  In addition Current_City_  Years Marital:  2 2 4 4  Dtype	Status Product  O  O  O  O  O  O  Status Product  O  O  O  O  O  O  O  O  O  O  O  O  O	Category_1  3  1  12  12  8  place('+', eWarning: aracter re replace('+ Category_1  3  1	Product_Cate  '')  The defau gular exp	8.0 6.0 8.0 14.0 8.0  alt value pressions  egory_2 Pro 8.0 6.0	of mwill
## Replace df ['Product 16.0 46 15.0 39 14.0 26 17.0 23 5.0 23 8.0 17 9.0 16 12.0 13 13.0 7 6.0 6 18.0 6 4.0 2 11.0 2 10.0 2 3.0 Name: Product ## Replace df ['Product df.head()  Product_II	### Category_3 #### A69 ### A69 ### A69 ### A68 ### A69 ### A60 ### A6		unique()  dtype=object)  df['Stay_In_Current_City  df['Stay_In_Current_City  df['Stay_In_Current_City  fipykernel_2428  future version     regex=True.     =df['Stay_In_Current_City  Stay_In_Current_City  Associate	Plana (df [  Years Marital]  2  2  2  4+  Strent_City_Ye  8/2063355665  In addition  Current_City_  Years Marital_  2  2  4  Dtype  object int64 int64 object int64 int64 object int64 int64 object int64 int64 int64 int64 object int64 int	Status Product  O  O  O  O  O  O  Status Product  O  O  O  O  O  O  O  O  O  O  O  O  O	Category_1  3  1  12  12  8  place('+', eWarning: aracter re replace('+ Category_1  3  1  12  12  12	Product_Cate  '')  The defau gular exp	egory_2 Pro  8.0 6.0 8.0 14.0 8.0  egory_2 Pro  8.0 6.0 8.0 14.0	of wil:
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df['Produc' 16.0	## Category 3 ## 69 ## 68 ## 8 ## 8 #		int64  h mode act_Category_3'  Stay_In_Current_City  dif['Stay_In_Cur /ipykernel_2428 future version n regex=True. l=df['Stay_In_C 833598  Non-Null Count 783667 non-null	Dtype  Crent_City_Ye  8/2063355665 Current_City_  /Years Marital_  2 2 2 4+  8/2063355665 Current_City_  /Years Marital_  2 2 2 2 4  Dtype  Crent_City_Ye  A d  Dtype  Crent_City_  /Years Marital_  2 2 2 2 2 2 2 2 2 4  Dtype  Crent_City_Ye  A d  Dtype  Crent_City_Ye	Status Product  O O O O O O O O O O O O O O O O O O	Category_1  3  1  12  12  8  place('+', ewarning: aracter re replace('+ Category_1  3  1  12  12  8	Product_Cate  '')  The defau gular exp	egory_2 Pro  8.0 6.0 8.0 14.0 8.0  egory_2 Pro  8.0 6.0 8.0 14.0	of wil:
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## Colum ##	## Category 3 ## 69 ## 968 ## 88 ## 87 ## 99 ## 81 ## 88 ## 88 ## 621 ## 691 ## 88 ## 621 ## 691 ## 88 ## 621 ## 691 ## 88 ## 621 ## 691 ## 88 ## 621 ## 691 ## 88 ## 621 ## 691 ## 68 ## 68 ## 68 ## 69 ##		### A Property of the property	Dtype	Status Product  O O O O O O O O O O O O O O O O O O	Category_1  3  1  12  12  8  place('+', eWarning: aracter re replace('+  Category_1  3  1  12  12  8  (int)	Product_Cate  "'') The defau gular exp ','') Product_Cate 1 be `da	egory_2 Pro  8.0 6.0 8.0 14.0 8.0  egory_2 Pro  8.0 6.0 8.0 14.0 8.0	of
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## CONVERT  ## CON	11., 10.])  t_Category_3  469 968 281 881 887 99 861 532 115 888 8621 691 595 501 878 wut_Category_ the missing t_Category_3  D Gender Age 2		stay.In_Current_City  stay.In_Current_City  dunique()  dtype=object)  df['Stay_In_Current_City  future version	Dtype	Status Product  O O O O O O O O Status Product O O O O O O O O O O O O O O O O O O O	Category_1  3  1  12  12  8  place('+', eWarning: aracter re replace('+  Category_1  3  1  12  8  tureWarnin  (int)  (int)	g: Pass tagular exp ','')  Product_Cate  g: Pass tagular exp ','')	egory_2 Pro  8.0 6.0 8.0 14.0 8.0 6.0 8.0 6.0 8.0 14.0 8.0 14.0 8.0 14.0 8.0	of will design and wing pass
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## Replace df.'soa 39 17.0 23 8.0 17 9.0 16 12.0 13 13.0 6 4.0 2 11.0 2 10.0 2 10.0 2 10.0 2 10.0 2 10.0 2 10.0 2 10.0 2 10.0 16 12.0 13 13.0 6  ## Replace df.'Produc  df.'head()  Product_II  O P0006904: 1 P0024894: 2 P0008784: 3 P0008544: 4 P0028544: df.'shape (783667, 1 df['Stay_I array(['2'] df['Stay_I change be treated dr.'stay_I array(['2'] df.'stay_I df.'head()  Product_II  O P0006904: 1 P0024894: 2 P0008784: df.'head()  Product_II  O P0006904: 1 P0024894: df.'stay_I df.'stay_I df.'stay_I df.'stay_I df.'stay_I df.'nead()	## A TO A	Occupation  10  10  10  10  10  10  10  10  10  1	int64  in	Ptype Dtype Object Intel	Status Product  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Category_1  3 1 12 12 8  place('+', eWarning: aracter re replace('+'  Category_1  3 1 12 12 8  citis also obs  tureWarnin rgument wi nterpretat  citit is also obs  tureWarnin rgument wi nterpretat	g: Pass t ll be `da ion.  g: Pass t ll be `da ion.	egory_2 Pro  8.0 6.0 8.0 14.0 8.0 6.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	of : will oduct
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# Product II  18. df ['Product II  16. 0	the missing t_Category_3  469  888  283  888  283  888  283  888  283  888  283  888  621  691  585  581  887  887  888  621  691  585  587  4	Occupation :  'yalues with  'yalues with  'ladf 'Product  10 10 10 10 10 10 10 10 10 10 10 10 10	stay. In Current City	## A Price of the property of	Status Product  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Category_1  3 11 12 12 8  Place('+', eWarning: aracter re replace('+ Category_1 3 1 12 12 8  (int)  viour of the tureWarnin rgument wi nterpretat  tureWarnin rgument wi nterpretat	g: Pass tall be 'dation.  g: Pass tall be 'dation.  g: Pass tall be 'dation.	the follow ta', and the follow ta', and	of will oduced a series of the
## COUNTY  18. df ['Product 16.0	d that the pure  the missing  t	Occupation:  "values witi" "]=df['Production  10  10  10  10  10  11  "ty_Years']=" "Local\Temp, False in a strings where City_Years']=" "City_Years']=" "City_Years'] "ity_Years']=" "ame.DataFrancies, O to 2 columns): " "ame.DataFrancies, O	sints()  int64  the mode stay in Current City  stay in Current City  digital in Current City  di	Dtype	almost similar.  Status Product  0 0 0 0 0 0  Years'].str.  Status Product 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Category_1  3 11 12 12 8  Place('+', eWarning: aracter re replace('+ Category_1 3 1 12 12 8  (int)  viour of the tureWarnin rgument wi nterpretat  tureWarnin rgument wi nterpretat	g: Pass tall be 'dation.  g: Pass tall be 'dation.  g: Pass tall be 'dation.	the follow ta', and the follow ta', and	of a solution of
## POODS 44  ## PO	d that the pure purchases whe  ation  Current_Ci  ation  Adas.core_fr:  783667 ent:  ation  Current_Ci  ation  Current_Ci  ation  Adas.core_fr:  783667 ent:  ation  Current_Ci  ation  Current_Ci  ation  Adas.core_fr:  783667 ent:  ation	Jay datype: in values with a values with a long to the comparison of the comparison	Stay.In_Current_City  Intique()  durique()  durype=object)  dis['stay_In_Current_City  dispkernel_2428  future version  regex=True. =df('stay_In_Current_City  183667 non-null	Dtype  Dt	"Product_Cat  Status Product  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Category_1  3  11  12  12  8  place('+', ewarning: arcter re replace('+'  Category_1  3  1  12  12  8  (int)  (int)  tureWarnin rgument win trepretat  winterpretat  turewarnin rgument win trepretat	g: Pass tall be 'dation.	t males ten  the follow the follow that, and  the follow that, and  the follow that, and	of : will oduct ving pass
## POODS 44  ## PO	d that the pure purchases whe  ation  Current_Ci  ation  Adas.core_fr:  783667 ent:  ation  Current_Ci  ation  Current_Ci  ation  Adas.core_fr:  783667 ent:  ation  Current_Ci  ation  Current_Ci  ation  Adas.core_fr:  783667 ent:  ation	Jay datype: in values with a values with a long to the comparison of the comparison	Stay.In_Current City  Stay.In_Current City  Stay.In_Current City  Stay.In_Current City  dunique()  dtype=object)  df['stay_In_Cur  /ipykernel_2428 future version  n=df['stay_In_Cur  /ipykernel_2428 future version  n=df['stay_In_Cur  /ipykernel_2428 future version  n=df['stay_In_Cur  /issa67 non-null  /issa67 non-null	Dtype  Dt	"Product_Cat  Status Product  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Category_1  3  11  12  12  8  place('+', ewarning: arcter re replace('+'  Category_1  3  1  12  12  8  (int)  (int)  tureWarnin rgument win trepretat  winterpretat  turewarnin rgument win trepretat	g: Pass tall be 'dation.	t males ten  the follow the follow that, and  the follow that, and  the follow that, and	of : will oduct ving pass
## Replace df ['Product   II	t Category 3  469 968 283 818 8799 163 223 3469 968 2818 8799 163 221 165 367 378 368 368 1661 565 378 388 388 388 388 389 389 389 388 388 38	a, dtype: in values with viade sylvars in explicit in contract of the contract	StayIn_Current City  StayIn_Current City  StayIn_Current City  display In_Cur  /ipykernel_2428 furtages_tray_In_Cur  /ipykernel_2428 furtages_tray_In_Cur  /ipykernel_2428 furtages_tray_In_Cur  /ipykernel_2428 furtages_tray_In_Cur  /isa667 non-null  /isa667 non-nul	ptype  Dtype  Object int64 int	"Product_Cat  Status Product  0 0 0 0 0 0 0  Years'].str.  Status Product 0 0 0 0 0 0 0 0 0 ars.py:36: Fu product 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Category_1  3 12 12 8 8 place('+', eWarning: arcter re replace('+  Category_1 3 1 12 12 8 (int) wiour of the tureWarnin rgument wi nterpretat  curewarnin rgument wi nterpretat  tureWarnin rgument wi nterpretat  curewarnin rgument wi nterpretat	g: Pass t ll be 'da ion.	egory_2 Products and some state of the follow	of man and man
18.	the category and a series of the category and	Occupation:  'Jedf'Product  10  10  10  10  10  10  11  11  12  Years']  Years']  Years']  Cocupation:  10  10  10  10  10  10  10  10  10  1	sints()  Stay.In_Current_City  Stay.In_Current_City  anique()  dtype=object)  df['Stay_In_Cur  intykernevezsion	ptype  Dtype  Object int64 int	"Product_Cat  Status Product  0 0 0 0 0 0 0  Years'].str.  Status Product 0 0 0 0 0 0 0 0 0 ars.py:36: Fu product 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Category_1  3 12 12 8 8 place('+', eWarning: arcter re replace('+  Category_1 3 1 12 12 8 (int) wiour of the tureWarnin rgument wi nterpretat  curewarnin rgument wi nterpretat  tureWarnin rgument wi nterpretat  curewarnin rgument wi nterpretat	g: Pass t ll be 'da ion.	egory_2 Products and some state of the follow	of ing pass
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## Replace df [10	11., 10.])   t_Category_3   469   688   688   689   688   688   689   688   689   689   688   689	Occupation:  ('yeldes' witch  ('yeldes' witch  ('yeldes' witch  10  10  10  10  10  10  10  10  10  1	sints(s)  antique()  dried  stay, in, Current, City  stay, in, Current, City  drype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  dtype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  antique()  antique()  antique()  antique()  antique()  antique()  antique()  antique()  antiq	## Purchase   Purchase	status Product  O O O O O O O O O O O O O O O O O O	Category_1  3 1 12 12 8 place ('+', ewarning: aracter re replace ('+ Category_1 3 1 12 12 8  Category_1 (int)  viour of the tureWarnin rgument wi nterpretat  cinterpretat  curewarnin rgument wi nterpretat	g: Pass talion.	egory_2 Products and she follow tax, and she follows tax, and she follow	of : will oduct ving pass ving pass ving pass
## Product II  18. df [ Product II  16. 0	deference of the most by the missing to the missing	Occupation:  ('yeldes' witch  ('yeldes' witch  ('yeldes' witch  10  10  10  10  10  10  10  10  10  1	sints(s)  antique()  dried  stay, in, Current, City  stay, in, Current, City  drype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  dtype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  antique()  dtype=object)  antique()  antique()  antique()  antique()  antique()  antique()  antique()  antique()  antique()  antiq	## Purchase   Purchase	status Product  O O O O O O O O O O O O O O O O O O	Category_1  3 1 12 12 8 place ('+', ewarning: aracter re replace ('+ Category_1 3 1 12 12 8  Category_1 (int)  viour of the tureWarnin rgument wi nterpretat  cinterpretat  curewarnin rgument wi nterpretat	g: Pass talion.	egory_2 Products and she follow that, and she follows the foll	of : will oduct ving pass ving pass ving pass