	FDA15	9.300	Low Fat	0.016047	Item_Type Dairy	1tem_MRP O	Outlet_Identifier OUT049	Outlet_Establisl	hment_Year 1999
1 2 3	DRC01 FDN15 FDX07 NCD19	5.920 17.500 19.200 8.930	Regular Low Fat Regular Low Fat	0.016760	Soft Drinks Meat Fruits and Vegetables Household	48.2692 141.6180 182.0950 53.8614	OUT018 OUT049 OUT010 OUT013		2009 1999 1998 1987
 8518 8519 8520	 FDF22 FDS36 NCJ29	 6.865 8.380 10.600	 Low Fat Regular Low Fat	0.056783 0.046982 0.035186	Snack Foods Baking Goods Health and Hygiene	 214.5218 108.1570 85.1224	OUT013 OUT045 OUT035		 1987 2002 2004
8521 8522 8523 rows	FDN46 DRG01 s × 12 columns	7.210 14.800	Regular Low Fat	0.145221 0.044878	Snack Foods Soft Drinks	103.1332 75.4670	OUT018 OUT046		2009 1997
0 1 2	FDW58 FDW14 NCN55	em_Weight Item 20.750 8.300 14.600	m_Fat_Content It	em_Visibility 0.007565 0.038428 0.099575	Snack Foods Dairy	107.8622 87.3198 241.7538	Outlet_Identifier OUT049 OUT017 OUT010	Outlet_Establis	hment_Year 1999 2007 1998
3 4 	FDQ58 FDY38 	7.315 NaN 	Low Fat Regular 	0.015388 0.118599 	Snack Foods Dairy 	155.0340 234.2300 	OUT017 OUT027 		2007 1985
5676 5677 5678	FDB58 FDD47 NCO17	7.600 10.000	Regular Regular Low Fat	0.013496 0.142991 0.073529	Snack Foods Starchy Foods Health and	141.3154 169.1448 118.7440	OUT046 OUT018 OUT045		1997 2009 2002
5679 5680 5681 rows	FDJ26 FDU37 s × 11 columns	10.000 15.300 9.500	Low Fat Regular Regular	0.073529 0.000000 0.104720	Hygiene Canned Canned	118.7440 214.6218 79.7960	OUT045 OUT017 OUT045		2002 2007 2002
trainl testle	en = len(tra en = len(test trainlen,tes	in)	a for prepro	ocessing					
df.res df	tem_Identifier I DRC01	p = True, in		0.016047	Item_Type Dairy Soft Drinks	249.8092	Outlet_Identifier OUT049 OUT018)	shment_Yea 199 200
2	FDX07	17.50 19.20	Low Fat Regular	0.016760	Meat Fruits and Vegetables	141.6180	OUT049)	199 199
4 14199	NCD19 FDB58	8.93 10.50	Low Fat Regular	0.000000 0.013496	Household Snack Foods	53.8614	OUT013 OUT046		198 199
14200 14201	FDD47 NCO17	7.60 10.00	Regular Low Fat	0.142991 0.073529	Foods Starchy Foods Health and Hygiene	169.1448 118.7440	OUT018 OUT045	3	200 200
	FDJ26 FDU37 ws × 12 column ng and pre		Regular Regular	0.000000 0.104720	Canned		OUT017 OUT045		200
dtype: df['It array([median median median fruits 7 8 Hea 9 10 11 12 13	em_Type'].un ['Dairy', 'So 'Household', 'Breakfast', 'Breads', 'S _weights = d _weights.col _weights Item_Type Baking Goods Breads Breakfast Canned Dairy Frozen Foods s and Vegetables Hard Drinks alth and Hygiene Household Meat Others Seafood Snack Foods	ique() oft Drinks', 'Baking Goo 'Health and starchy Foods f.groupby(df umns = ['Ite Average_Weigh 11.65 10.50 11.60 12.15 13.30 12.30 13.10 10.19 12.35 13.00 12.35 14.50 11.65 12.85	0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>Coods', 'Fr lard Drinks 'Seafood'] ,as_index=1</pre>	ozen Food ', 'Canne , dtype=o False).ag	s', d', bject)	eight':np.me	dian})	
14 15 df = p df.hea	Soft Drinks Starchy Foods d.merge(left d()	11.80 12.85 = df, right	0		_			rtlet_Establishme	ent_Year O
0 1 2 3	FDA15 DRC01 FDN15 FDX07	9.30 5.92 17.50	Low Fat Regular Low Fat	0.016047 0.019278 Soft 0.016760	Dairy 2- t Drinks Meat 1-	49.8092 48.2692 41.6180 82.0950	OUT049 OUT018 OUT049 OUT010		1999 2009 1999
4 df.sha	NCD19	8.93			jetables "	53.8614	OUT013		1987
(14204,	13)	= df.apply(1	ambda x: x[12] if pd.is	na(x[1])	else x[1],	axis=1)		
array([nn, 'High', '	Small'], dtyp	e=object)					
Medium Small High	4655 3980 1553 Outlet_Size,	_							
df.isn	a().sum()	= df['Outlet	_Size'].apply	(lambda x:	'Medium'	if pd.isna	a(x) else x)		
Item_We Item_Fa Item_Vi Item_Ty Item_MR Outlet_	at_Content .sibility /pe RP _Identifier		0 0 0 0 0						
Outlet_ Outlet_ Outlet_ Outlet_ Item_Ou	Establishmen Size Location_Typ Type	e e	0 0 0 0 0 0						
	tlet_Sales e_Weight	50	0						
<pre>dtype: df['It</pre>	e_Weight int64 em_Fat_Conte	nt'].unique(, 'reg'],	dtype=obj	ect)			
<pre>dtype: df['It array([df['It df['It</pre>	e_Weight int64 em_Fat_Conte	<pre>nt'].unique(Regular', 'l nt'] = df['I nt'].unique(</pre>) .ow fat', 'LF' tem_Fat_Conte)				,'Regular':'	Regular','lo	w fat':'
<pre>dtype: df['It array([df['It array([df['Ou</pre>	e_Weight int64 em_Fat_Conte Low Fat', ' em_Fat_Conte em_Fat_Conte 'Low Fat', ' tlet_Locatio	<pre>nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni</pre>) .ow fat', 'LF' tem_Fat_Conte) ltype=object)	nt'].map({			'Regular':'	Regular','lo	w fat':'
<pre>dtype: df['It array([df['It array([df['Ou array([df['Ou array([df['Ou array([</pre>	e_Weight int64 em_Fat_Conte L'Low Fat', ' em_Fat_Conte em_Fat_Conte 'Low Fat', ' tlet_Locatio L'Tier 1', 'T tlet_Type']. L'Supermarket Supermarket	<pre>nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni lier 3', 'Tie unique() t Type1', 'Su t Type3'], dt</pre>) low fat', 'LF' tem_Fat_Conte) ltype=object) que() er 2'], dtype= lipermarket Typ type=object)	nt'].map({	'Low Fat'	:'Low Fat',	'Regular':'	Regular','lo	w fat':'
<pre>dtype: df['It array([df['It array([df['Ou array([df['Ne df['Ne df['Ne</pre>	e_Weight int64 em_Fat_Conte 'Low Fat', ' em_Fat_Conte em_Fat_Conte 'Low Fat', ' tlet_Locatio 'Tier 1', 'T tlet_Type']. 'Supermarket 'Supermarket 'Supermarket w_Type'] = d w_Type'] FD DR FD FD FD	<pre>nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni lier 3', 'Tie unique() t Type1', 'Su t Type3'], dt</pre>) cow fat', 'LF' tem_Fat_Conte) dtype=object) que() er 2'], dtype=	nt'].map({	'Low Fat'	:'Low Fat',	'Regular':'	Regular','lo	w fat':'
dtype: df['It array([df['It array([df['Ou array([df['Ou array([df['Ne df['Ne 0 1 2 3 4 14199 14200 14201 14202 14203	e_Weight int64 em_Fat_Conte !'Low Fat', ' em_Fat_Conte em_Fat_Conte em_Fat_Conte !'Low Fat', ' tlet_Locatio !'Tier 1', 'T tlet_Type']. !'Supermarket !'Supermark	<pre>nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni lier 3', 'Tie unique() type1', 'Su type3'], dt f['Item_Iden</pre>) .ow fat', 'LF' tem_Fat_Conte) dtype=object) que() er 2'], dtype= apermarket Typ type=object) tifier'].appl	nt'].map({ cobject) de2', 'Groc y(lambda x	'Low Fat'	:'Low Fat',	'Regular':'	Regular','lo	w fat':'
dtype: df['It array([df['It array([df['Ou array([df['Ou array([df['Ne	e_Weight int64 em_Fat_Conte !'Low Fat', ' em_Fat_Conte em_Fat_Conte em_Fat_Conte !'Low Fat', ' tlet_Locatio !'Tier 1', 'T tlet_Type']. !'Supermarket !'Supermark	<pre>nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni 'ier 3', 'Tie unique() ': Type1', 'Su t Type3'], dt f['Item_Iden igth: 14204, que()</pre>	cow fat', 'LF' tem_Fat_Conte dtype=object) que() r 2'], dtype= rpermarket Typ type=object) tifier'].appl dtype: object	nt'].map({ cobject) de2', 'Groc y(lambda x	'Low Fat'	:'Low Fat',	.'Regular':'	Regular','lo	w fat':'
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dtype: df['It array([df['It array([df['Ou array([df['Ne df['Ne df['Ne 0 1 2 3 4 14199 14200 14201 14202 14203 Name: N df['Ne array([df['Ne array([df['Ne df['Ne array([df['Ne	e_Weight int64 em_Fat_Conte 'Low Fat', ' em_Fat_Conte em_Fat_Conte em_Fat_Conte em_Fat_Conte 'Low Fat', ' tlet_Locatio 'Tier 1', 'T tlet_Type']. 'Supermarket 'Supermarket 'Supermarket 'Supermarket 'Supermarket 'W_Type'] = d w_Type'] = d w_Type'].uni fD FD FD NC FD FD Type, Len w_Type'].uni tlet_Age'] = d.get_dummie d()	nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni 'ier 3', 'Tie unique() 'Type1', 'Su Type3'], dt f['Item_Iden 'NC'], dtype f['New_Type' que() nks', 'Non-c df['Outlet_ s(columns=[' Weight Item_V	cow fat', 'LF' tem_Fat_Conte tem_Fat_Conte type=object) due() r 2'], dtype= repermarket Type rype=object) tifier'].appl dtype: object e=object)].map({'FD':' consumables'], Establishment	nt'].map({ cobject) cobject) cobject, 'Groc y(lambda x food','DR' dtype=obj Year'].app ent','Item P Outlet_Iden	Low Fat' ery Store :x[:2]) :'Drinks' ect) ply(lambd	:'Low_Fat', ', ', ,'NC':'Non- a x: 2021-x utlet_Size'	-consumables	'}) cation_Type'	,'Outlet
dtype: df['It array([df['It array([df['Ou array([df['Ou array([df['Ne df['Ne df['Ne df['Ne array([df['Ne array([df['Ne array([df['Ne df['Ne array([df['Ne df['Ne array([df['Ne df['Ne df['Ne array([df['Ne array([df['Ne array([df['Ne df['Ne array([df['Ne array([df['Ne array([df['Ne array([df['Ne] array(e_Weight int64 em_Fat_Conte 'Low Fat', ' em_Fat_Conte em_Fat_Conte em_Fat_Conte 'Low Fat', ' tlet_Locatio 'Tier 1', 'T tlet_Type']. 'Supermarket 'Supermarket 'Supermarket 'Supermarket 'Supermarket w_Type'] = d w_Type'] FD NC FD FD NC	nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni 'ier 3', 'Tie unique() 'Type1', 'Su Type3'], dt f['Item_Iden 'NC'], dtype f['New_Type' que() 'NC'], dtype f['Outlet_ s(columns=[' Weight tem_V 9.30	cow fat', 'LF' tem_Fat_Conte item_Fat_Conte item_Fat_Conte item_Fat_Conte itype=object) itype=object) itifier'].appl	nt'].map({ cobject) cobject) cobject, 'Groc y(lambda x Food','DR' dtype=obj _Year'].app ent','Item 22	Low Fat' ery Store :x[:2]) :'Drinks' ect) ply(lambd	:'Low_Fat', ', ', ,'NC':'Non- a x: 2021-x utlet_Size'	-consumables * ','Outlet_Locate ent_Year Item_Consumation Item_C	'}) Cation_Type'	rerage_Weig 13. 11. 12. 13.
<pre>dtype: df['It array([df['It array([df['Ou array([df['Ne df['Ne df['Ne array([array([df['Ne array([array([df['Ne array([array([df['Ne array([df['Ne</pre>	e_Weight int64 em_Fat_Conte 'Low Fat', ' em_Fat_Conte em_Fat_Conte em_Fat_Conte 'Low Fat', ' tlet_Locatio 'Tier 1', 'T tlet_Type']. 'Supermarket 'Supermarket 'Supermarket 'Supermarket w_Type'] = d w_Type'] = d w_Type']. uni 'FD FD NC FD FD FD NC FD FD FD NC FD	nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni lier 3', 'Tie unique() Type1', 'Su Type3'], dt f['Item_Iden f['New_Type' que() nks', 'Non-c f('New_Type' que() weight tem_V 9.30	cow fat', 'LF' tem_Fat_Conte httppe=object) que() er 2'], dtype= depermarket Type type=object) tifier'].appl dtype: object consumables'], Establishment Item_Fat_Cont isibility Item_MR 016047 249.809 019278 48.269 016760 141.618 000000 53.861	nt'].map({ cobject) cobject) cobject, 'Groc y(lambda x Food','DR' dtype=obj _Year'].app ent','Item 22	Low Fat' Low Fat' ery Store :x[:2]) :'Drinks' ect) ply(lambd. Type','O ntifier Outl UT049 UT018 UT049 UT010	:'Low_Fat', ', ', ,'NC':'Non- a x: 2021-x utlet_Size'	ent_Year Item_C 1999 2009 1999 1998	Cation_Type' Outlet_Sales Av 3735.1380 443.4228 2097.2700 732.3800	rerage_Weig 13. 11. 12. 13.
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df ['It array([df ['Ou array([df ['Ne df ['It df ['I	e_Weight int64 em_Fat_Conte em_Type'] for all end em_Type'] em_Type'] ed. ed. ed. ed. fDA15 DRC01 FDN15 FDX07 NCD19 34 columns tem_Visibilit em_Visibilit em_Visibilit	nt'].unique(Regular', 'l nt'] = df['I nt'].unique(Regular'], d n_Type'].uni 'ier 3', 'Tie unique() 'Type1', 'Su Type3'], dt f['Item_Iden 'ngth: 14204, que() 'NC'], dtype f['New_Type' que() 'NC'], dtype ff['Outlet_ s(columns=[' Weight Item_V 9.30	cow fat', 'LF' tem_Fat_Conte httppe=object) que() r 2'], dtype= rpermarket Typ rype=object) tifier'].appl dtype: object consumables'], Establishment Item_Fat_Cont isibility Item_MR 016047 249.809 019278 48.269 016760 141.618 000000 182.095 0100000 53.861	nt'].map({ cobject) cobject) ce2', 'Groc y(lambda x lambda x	Low Fat' Low Fat' ery Store :x[:2]) :'Drinks' ect) ply(lambd) Type','O' ntifier Outl UT049 UT049 UT018 UT049 UT010 UT013	:'Low Fat', ', ', ', a x: 2021-x utlet_Size' p.mean(df['	-consumables * * * * * * * * * * * * *	Cation_Type' Outlet_Sales Av 3735.1380 443.4228 2097.2700 732.3800 994.7052	rerage_Weig 13 11 12 13 13 13
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