

PS1 - IO

Tate Mason

1 - Data Import and Descriptive Statistics

```
# Load necessary libraries
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.2
v ggplot2    4.0.0      v tibble     3.3.0
v lubridate  1.9.4      v tidyr      1.3.1
v purrr      1.1.0
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

```
library(readr)
library(psych)
```

Attaching package: 'psych'

The following objects are masked from 'package:ggplot2':

%+%, alpha

```
# Import the dataset
df <- read_delim("~/SchoolWork/Y2S1/IO/PS1/IRI.csv")
```

```

Rows: 63966 Columns: 18
-- Column specification -----
Delimiter: "\t"
chr (5): market_name, state, brand, parent, segment
dbl (13): year, month, store_id, week_id, flavored, fortified, fiber, sugars...

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.

```

```
glimpse(df)
```

```

Rows: 63,966
Columns: 18
$ year      <dbl> 2008, 2008, 2008, 2008, 2008, 2008, 2008, 2008, 2008, 2008~
$ month     <dbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4~
$ store_id  <dbl> 369, 108, 374, 221, 294, 117, 378, 310, 237, 321, 120, 275~
$ week_id   <dbl> 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5~
$ market_name <chr> "BOSTON", "BOSTON", "BOSTON", "BOSTON", "BOSTON", "BOSTON"~
$ state     <chr> "Massachusetts", "Massachusetts", "Massachusetts", "Massac~
$ brand     <chr> "KELLOGGS RAISIN BRAN CRUNCH", "GENERAL MILLS GOLDEN GRAHA~
$ parent    <chr> "KELLOGGS", "GENERAL MILLS", "KELLOGGS", "GENERAL MILLS", ~
$ flavored  <dbl> 1, 1, 1, 1, 0, 1, 0, 1, 1, 0, 1, 1, 1, 0, 0, 0, 1, 1, 1, 1~
$ fortified <dbl> 0, 1, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 0, 0, 1, 1, 0~
$ fiber     <dbl> 3.759398, 0.000000, 0.000000, 0.000000, 0.000000, 2.000000~
$ sugars    <dbl> 9.022556, 9.000000, 3.000000, 13.000000, 3.000000, 8.00000~
$ price     <dbl> 0.1680204, 0.2733062, 0.1723915, 0.2528735, 0.3389252, 0.2~
$ quantity  <dbl> 600.6000, 96.0000, 1889.2100, 165.1040, 60.0000, 224.0000,~
$ puma      <dbl> 2700, 2700, 2700, 2700, 2700, 2700, 2700, 2700, 2700, 2700~
$ sugar_price <dbl> 211.9174, 211.9174, 211.9174, 211.9174, 211.9174, 211.9174~
$ M         <dbl> 117679.10, 55841.92, 204192.90, 29956.03, 35946.88, 96805.~
$ segment   <chr> "Family", "Family", "Child", "Child", "Child", "Adult", "A~

```

```
describe(df$brand)
```

```

      vars      n mean    sd median trimmed   mad min max range skew kurtosis
X1*     1 63966 19.96 11.28     20   19.95 14.83    1  39   38     0    -1.21
      se
X1* 0.04

```

```
describe(df$parent)
```

```
vars      n mean   sd median trimmed  mad min max range skew kurtosis se
X1*      1 63966 2.12 1.09      2    2.03 1.48   1   4    3 0.58   -0.97  0
```

2 - Descriptive Statistics by Brand

```
describeBy(df, df$brand)
```

Descriptive statistics by group
group: GENERAL MILLS BASIC 4

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1525	2009.64	1.07	2010.00	2009.68	1.48	2008.00
month	2	1525	6.06	3.10	7.00	6.20	4.45	1.00
store_id	3	1525	703.75	301.86	718.00	711.94	358.79	108.00
week_id	4	1525	12.25	4.40	12.00	12.29	5.93	4.00
market_name	5	1525	2.39	1.18	2.00	2.36	1.48	1.00
state	6	1525	3.28	1.41	3.00	3.35	1.48	1.00
brand	7	1525	1.00	0.00	1.00	1.00	0.00	1.00
parent	8	1525	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1525	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1525	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1525	1.50	0.00	1.50	1.50	0.00	1.50
sugars	12	1525	6.02	0.00	6.02	6.02	0.00	6.02
price	13	1525	0.27	0.03	0.26	0.27	0.03	0.17
quantity	14	1525	100.57	96.64	80.00	82.82	71.16	16.00
puma	15	1525	2911.11	1174.05	2700.00	2888.73	1042.27	1300.00
sugar_price	16	1525	205.76	12.05	205.96	205.51	11.39	187.08
M	17	1525	65297.98	50405.47	51477.27	56447.21	28969.06	4238.01
segment	18	1525	1.00	0.00	1.00	1.00	0.00	1.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.15	-1.24	0.03			
month	10.00	9.00	-0.26	-1.09	0.08			
store_id	1184.00	1076.00	-0.17	-1.08	7.73			
week_id	19.00	15.00	-0.08	-1.15	0.11			
market_name	4.00	3.00	0.14	-1.47	0.03			
state	5.00	4.00	-0.41	-0.99	0.04			
brand	1.00	0.00	NaN	NaN	0.00			

parent	1.00	0.00	NaN	NaN	0.00
flavored	0.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00
fiber	1.50	0.00	Inf	NaN	0.00
sugars	6.02	0.00	Inf	NaN	0.00
price	0.35	0.18	0.25	-0.74	0.00
quantity	784.00	768.00	2.60	9.34	2.47
puma	4702.00	3402.00	0.09	-0.99	30.06
sugar_price	227.51	40.43	0.10	-1.03	0.31
M	417883.00	413644.99	2.41	7.77	1290.75
segment	1.00	0.00	NaN	NaN	0.00

group: GENERAL MILLS CHEERIOS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1762	2009.63	1.08	2010.00	2009.66	1.48	2008.00
month	2	1762	5.99	3.12	7.00	6.12	4.45	1.00
store_id	3	1762	697.66	302.46	715.00	705.27	357.31	108.00
week_id	4	1762	12.17	4.43	12.00	12.22	5.93	4.00
market_name	5	1762	2.48	1.19	2.00	2.48	1.48	1.00
state	6	1762	3.38	1.41	3.00	3.47	1.48	1.00
brand	7	1762	2.00	0.00	2.00	2.00	0.00	2.00
parent	8	1762	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1762	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1762	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1762	2.00	0.00	2.00	2.00	0.00	2.00
sugars	12	1762	1.00	0.00	1.00	1.00	0.00	1.00
price	13	1762	0.25	0.04	0.25	0.25	0.04	0.13
quantity	14	1762	1030.91	1072.92	729.32	814.40	529.83	14.00
puma	15	1762	2874.49	1216.08	2700.00	2842.90	1042.27	1300.00
sugar_price	16	1762	205.91	11.99	205.96	205.70	11.39	187.08
M	17	1762	60985.00	48791.71	48216.37	52529.64	28571.02	4042.54
segment	18	1762	3.00	0.00	3.00	3.00	0.00	3.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.14	-1.25	0.03
month	10.00	9.00	-0.24	-1.11	0.07
store_id	1187.00	1079.00	-0.17	-1.07	7.21
week_id	19.00	15.00	-0.08	-1.14	0.11
market_name	4.00	3.00	0.02	-1.51	0.03
state	5.00	4.00	-0.50	-0.92	0.03
brand	2.00	0.00	NaN	NaN	0.00
parent	1.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00

fiber	2.00	0.00	NaN	NaN	0.00
sugars	1.00	0.00	NaN	NaN	0.00
price	0.36	0.22	0.32	0.13	0.00
quantity	8882.52	8868.52	2.90	10.23	25.56
puma	4702.00	3402.00	0.12	-1.11	28.97
sugar_price	227.51	40.43	0.08	-1.02	0.29
M	417883.00	413840.46	2.49	8.53	1162.37
segment	3.00	0.00	NaN	NaN	0.00

group: GENERAL MILLS CINNAMON TST CR

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1737	2009.63	1.07	2010.00	2009.66	1.48	2008.00
month	2	1737	5.98	3.12	7.00	6.10	4.45	1.00
store_id	3	1737	698.89	301.21	716.00	706.65	351.38	108.00
week_id	4	1737	12.19	4.40	12.00	12.24	4.45	4.00
market_name	5	1737	2.47	1.19	2.00	2.46	1.48	1.00
state	6	1737	3.37	1.41	3.00	3.46	1.48	1.00
brand	7	1737	3.00	0.00	3.00	3.00	0.00	3.00
parent	8	1737	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1737	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1737	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1737	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1737	9.00	0.00	9.00	9.00	0.00	9.00
price	13	1737	0.22	0.04	0.22	0.22	0.03	0.12
quantity	14	1737	697.67	756.40	494.40	563.34	417.20	12.50
puma	15	1737	2884.01	1213.33	2700.00	2854.91	1042.27	1300.00
sugar_price	16	1737	205.87	12.04	205.96	205.66	11.39	187.08
M	17	1737	61316.27	49009.75	48356.76	52817.79	28779.03	4042.54
segment	18	1737	3.00	0.00	3.00	3.00	0.00	3.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.14	-1.23	0.03
month	10.00	9.00	-0.24	-1.12	0.07
store_id	1187.00	1079.00	-0.17	-1.05	7.23
week_id	19.00	15.00	-0.08	-1.12	0.11
market_name	4.00	3.00	0.03	-1.51	0.03
state	5.00	4.00	-0.49	-0.92	0.03
brand	3.00	0.00	NaN	NaN	0.00
parent	1.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00
sugars	9.00	0.00	NaN	NaN	0.00
price	0.35	0.23	0.77	1.00	0.00

quantity	10859.25	10846.75	4.67	43.62	18.15
puma	4702.00	3402.00	0.11	-1.11	29.11
sugar_price	227.51	40.43	0.08	-1.03	0.29
M	417883.00	413840.46	2.48	8.42	1175.93
segment	3.00	0.00	NaN	NaN	0.00

group: GENERAL MILLS COCOA PUFFS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1655	2009.62	1.07	2010.00	2009.66	1.48	2008.00
month	2	1655	5.93	3.16	7.00	6.03	4.45	1.00
store_id	3	1655	698.01	302.05	715.00	705.45	352.86	108.00
week_id	4	1655	12.14	4.42	12.00	12.18	5.93	4.00
market_name	5	1655	2.44	1.18	2.00	2.43	1.48	1.00
state	6	1655	3.33	1.40	3.00	3.42	1.48	1.00
brand	7	1655	4.00	0.00	4.00	4.00	0.00	4.00
parent	8	1655	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1655	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1655	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1655	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1655	13.00	0.00	13.00	13.00	0.00	13.00
price	13	1655	0.25	0.04	0.24	0.24	0.03	0.14
quantity	14	1655	262.17	276.02	186.31	212.85	153.90	11.70
puma	15	1655	2916.97	1204.58	2700.00	2896.04	1042.27	1300.00
sugar_price	16	1655	205.90	12.03	205.96	205.66	11.39	187.08
M	17	1655	62231.39	49196.81	49106.01	53618.11	28161.50	4042.54
segment	18	1655	2.00	0.00	2.00	2.00	0.00	2.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.14	-1.24	0.03			
month	10.00	9.00	-0.20	-1.17	0.08			
store_id	1187.00	1079.00	-0.16	-1.06	7.42			
week_id	19.00	15.00	-0.07	-1.12	0.11			
market_name	4.00	3.00	0.07	-1.49	0.03			
state	5.00	4.00	-0.46	-0.94	0.03			
brand	4.00	0.00	NaN	NaN	0.00			
parent	1.00	0.00	NaN	NaN	0.00			
flavored	1.00	0.00	NaN	NaN	0.00			
fortified	1.00	0.00	NaN	NaN	0.00			
fiber	0.00	0.00	NaN	NaN	0.00			
sugars	13.00	0.00	NaN	NaN	0.00			
price	0.39	0.25	1.11	1.69	0.00			
quantity	4012.00	4000.30	3.80	29.23	6.78			
puma	4702.00	3402.00	0.08	-1.08	29.61			
sugar_price	227.51	40.43	0.09	-1.02	0.30			

M	417883.00	413840.46	2.48	8.38	1209.31
segment	2.00	0.00	NaN	NaN	0.00

group: GENERAL MILLS GOLDEN GRAHAMS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1555	2009.61	1.08	2010.00	2009.64	1.48	2008.00
month	2	1555	6.04	3.14	7.00	6.17	4.45	1.00
store_id	3	1555	695.81	303.09	713.00	703.02	360.27	108.00
week_id	4	1555	12.13	4.44	12.00	12.17	4.45	4.00
market_name	5	1555	2.43	1.20	2.00	2.42	1.48	1.00
state	6	1555	3.31	1.44	3.00	3.39	1.48	1.00
brand	7	1555	5.00	0.00	5.00	5.00	0.00	5.00
parent	8	1555	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1555	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1555	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1555	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1555	9.00	0.00	9.00	9.00	0.00	9.00
price	13	1555	0.25	0.04	0.25	0.25	0.03	0.12
quantity	14	1555	169.66	197.74	112.00	134.39	94.89	12.00
puma	15	1555	2813.89	1169.04	2700.00	2767.30	1042.27	1300.00
sugar_price	16	1555	205.87	12.03	205.96	205.68	11.39	187.08
M	17	1555	62976.28	50315.37	49380.19	54043.57	29519.44	4781.94
segment	18	1555	3.00	0.00	3.00	3.00	0.00	3.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.12	-1.25	0.03
month	10.00	9.00	-0.25	-1.13	0.08
store_id	1187.00	1079.00	-0.16	-1.08	7.69
week_id	19.00	15.00	-0.08	-1.13	0.11
market_name	4.00	3.00	0.11	-1.53	0.03
state	5.00	4.00	-0.40	-1.05	0.04
brand	5.00	0.00	NaN	NaN	0.00
parent	1.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00
sugars	9.00	0.00	NaN	NaN	0.00
price	0.37	0.24	0.32	0.22	0.00
quantity	2672.00	2660.00	4.74	40.10	5.01
puma	4702.00	3402.00	0.15	-0.98	29.65
sugar_price	227.51	40.43	0.06	-1.05	0.31
M	417883.00	413101.06	2.43	7.93	1275.96
segment	3.00	0.00	NaN	NaN	0.00

group: GENERAL MILLS HONEY NUT CHEER

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1742	2009.64	1.07	2010.00	2009.68	1.48	2008.00
month	2	1742	6.00	3.12	7.00	6.12	4.45	1.00
store_id	3	1742	702.44	300.37	720.00	710.68	354.34	108.00
week_id	4	1742	12.24	4.40	12.00	12.30	4.45	4.00
market_name	5	1742	2.49	1.18	3.00	2.49	1.48	1.00
state	6	1742	3.39	1.41	4.00	3.48	1.48	1.00
brand	7	1742	6.00	0.00	6.00	6.00	0.00	6.00
parent	8	1742	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1742	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1742	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1742	1.50	0.00	1.50	1.50	0.00	1.50
sugars	12	1742	10.00	0.00	10.00	10.00	0.00	10.00
price	13	1742	0.24	0.04	0.23	0.24	0.03	0.14
quantity	14	1742	1197.24	1046.86	924.73	1016.74	726.46	12.25
puma	15	1742	2883.43	1224.17	2700.00	2854.08	2075.64	1300.00
sugar_price	16	1742	205.83	12.03	205.96	205.60	11.39	187.08
M	17	1742	61215.53	48980.34	48315.38	52713.27	28807.50	4042.54
segment	18	1742	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.16	-1.23	0.03		
month		10.00	9.00	-0.25	-1.11	0.07		
store_id		1187.00	1079.00	-0.18	-1.05	7.20		
week_id		19.00	15.00	-0.09	-1.12	0.11		
market_name		4.00	3.00	0.00	-1.50	0.03		
state		5.00	4.00	-0.51	-0.92	0.03		
brand		6.00	0.00	NaN	NaN	0.00		
parent		1.00	0.00	NaN	NaN	0.00		
flavored		1.00	0.00	NaN	NaN	0.00		
fortified		0.00	0.00	NaN	NaN	0.00		
fiber		1.50	0.00	NaN	NaN	0.00		
sugars		10.00	0.00	NaN	NaN	0.00		
price		0.35	0.20	0.66	0.86	0.00		
quantity		6711.40	6699.15	2.00	4.98	25.08		
puma		4702.00	3402.00	0.11	-1.14	29.33		
sugar_price		227.51	40.43	0.09	-1.02	0.29		
M		417883.00	413840.46	2.48	8.44	1173.54		
segment		3.00	0.00	NaN	NaN	0.00		

group: GENERAL MILLS KIX

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1722	2009.63	1.07	2010.00	2009.67	1.48	2008.00

month	2	1722	5.98	3.13	7.00	6.11	4.45	1.00
store_id	3	1722	700.17	301.70	716.00	708.21	355.82	108.00
week_id	4	1722	12.20	4.42	12.00	12.26	5.19	4.00
market_name	5	1722	2.47	1.19	2.00	2.47	1.48	1.00
state	6	1722	3.37	1.41	3.00	3.46	1.48	1.00
brand	7	1722	7.00	0.00	7.00	7.00	0.00	7.00
parent	8	1722	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1722	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1722	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1722	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1722	3.00	0.00	3.00	3.00	0.00	3.00
price	13	1722	0.28	0.06	0.28	0.28	0.06	0.16
quantity	14	1722	260.38	222.56	198.00	224.73	159.23	8.70
puma	15	1722	2870.79	1210.94	2700.00	2838.29	1042.27	1300.00
sugar_price	16	1722	205.83	12.02	205.96	205.60	11.39	187.08
M	17	1722	61593.12	49005.15	48748.10	53073.06	28328.88	4042.54
segment	18	1722	2.00	0.00	2.00	2.00	0.00	2.00
		max	range	skew	kurtosis	se		
year	2011.00	3.00	-0.15	-1.24	0.03			
month	10.00	9.00	-0.24	-1.12	0.08			
store_id	1187.00	1079.00	-0.17	-1.06	7.27			
week_id	19.00	15.00	-0.09	-1.12	0.11			
market_name	4.00	3.00	0.03	-1.51	0.03			
state	5.00	4.00	-0.48	-0.94	0.03			
brand	7.00	0.00	NaN	NaN	0.00			
parent	1.00	0.00	NaN	NaN	0.00			
flavored	0.00	0.00	NaN	NaN	0.00			
fortified	0.00	0.00	NaN	NaN	0.00			
fiber	0.00	0.00	NaN	NaN	0.00			
sugars	3.00	0.00	NaN	NaN	0.00			
price	0.43	0.27	0.14	-0.52	0.00			
quantity	1836.00	1827.30	1.96	5.46	5.36			
puma	4702.00	3402.00	0.12	-1.10	29.18			
sugar_price	227.51	40.43	0.08	-1.03	0.29			
M	417883.00	413840.46	2.49	8.46	1180.93			
segment	2.00	0.00	NaN	NaN	0.00			

group: GENERAL MILLS LUCKY CHARMS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1740	2009.64	1.07	2010.00	2009.67	1.48	2008.00
month	2	1740	5.99	3.12	7.00	6.11	4.45	1.00
store_id	3	1740	699.84	301.59	716.50	707.86	353.60	108.00
week_id	4	1740	12.20	4.41	12.00	12.26	5.93	4.00

market_name	5	1740	2.48	1.19	2.00	2.47	1.48	1.00
state	6	1740	3.37	1.41	3.00	3.47	1.48	1.00
brand	7	1740	8.00	0.00	8.00	8.00	0.00	8.00
parent	8	1740	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1740	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1740	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1740	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1740	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1740	0.26	0.05	0.25	0.25	0.04	0.15
quantity	14	1740	472.49	446.87	344.15	393.37	272.42	11.50
puma	15	1740	2883.93	1216.98	2700.00	2854.66	1042.27	1300.00
sugar_price	16	1740	205.86	12.02	205.96	205.63	11.39	187.08
M	17	1740	61293.16	48963.68	48339.80	52778.32	28718.58	4042.54
segment	18	1740	2.00	0.00	2.00	2.00	0.00	2.00
		max	range	skew	kurtosis		se	
year		2011.00	3.00	-0.15	-1.24	0.03		
month		10.00	9.00	-0.24	-1.11	0.07		
store_id		1187.00	1079.00	-0.18	-1.06	7.23		
week_id		19.00	15.00	-0.08	-1.13	0.11		
market_name		4.00	3.00	0.02	-1.51	0.03		
state		5.00	4.00	-0.50	-0.92	0.03		
brand		8.00	0.00	NaN	NaN	0.00		
parent		1.00	0.00	NaN	NaN	0.00		
flavored		1.00	0.00	NaN	NaN	0.00		
fortified		1.00	0.00	NaN	NaN	0.00		
fiber		0.00	0.00	NaN	NaN	0.00		
sugars		12.00	0.00	NaN	NaN	0.00		
price		0.40	0.25	0.71	0.44	0.00		
quantity		5146.84	5135.34	2.68	12.44	10.71		
puma		4702.00	3402.00	0.11	-1.12	29.17		
sugar_price		227.51	40.43	0.09	-1.02	0.29		
M		417883.00	413840.46	2.48	8.45	1173.81		
segment		2.00	0.00	NaN	NaN	0.00		

group: GENERAL MILLS MULTI GRAIN CHE

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1643	2009.66	1.06	2010.00	2009.70	1.48	2008.00
month	2	1643	5.98	3.15	7.00	6.10	4.45	1.00
store_id	3	1643	708.02	297.07	728.00	717.17	354.34	108.00
week_id	4	1643	12.31	4.36	12.00	12.39	4.45	4.00
market_name	5	1643	2.47	1.19	2.00	2.47	1.48	1.00
state	6	1643	3.35	1.44	3.00	3.43	1.48	1.00
brand	7	1643	9.00	0.00	9.00	9.00	0.00	9.00

parent	8	1643	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1643	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1643	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1643	2.00	0.00	2.00	2.00	0.00	2.00
sugars	12	1643	6.00	0.00	6.00	6.00	0.00	6.00
price	13	1643	0.32	0.05	0.32	0.32	0.05	0.16
quantity	14	1643	332.45	308.02	244.60	282.95	229.80	9.00
puma	15	1643	2831.84	1195.63	2700.00	2789.65	1042.27	1300.00
sugar_price	16	1643	205.65	12.13	205.96	205.38	11.39	187.08
M	17	1643	61883.89	49583.73	48765.18	53240.99	28787.75	4042.54
segment	18	1643	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis		se	
year	2011.00		3.00	-0.18	-1.19		0.03	
month	10.00		9.00	-0.24	-1.14		0.08	
store_id	1187.00		1079.00	-0.20	-1.01		7.33	
week_id	19.00		15.00	-0.12	-1.07		0.11	
market_name	4.00		3.00	0.05	-1.52		0.03	
state	5.00		4.00	-0.45	-1.02		0.04	
brand	9.00		0.00	NaN	NaN		0.00	
parent	1.00		0.00	NaN	NaN		0.00	
flavored	0.00		0.00	NaN	NaN		0.00	
fortified	1.00		0.00	NaN	NaN		0.00	
fiber	2.00		0.00	NaN	NaN		0.00	
sugars	6.00		0.00	NaN	NaN		0.00	
price	0.45		0.28	-0.06	-0.05		0.00	
quantity	2198.40		2189.40	2.01	5.84		7.60	
puma	4702.00		3402.00	0.15	-1.06		29.50	
sugar_price	227.51		40.43	0.11	-1.05		0.30	
M	417883.00		413840.46	2.48	8.33		1223.26	
segment	3.00		0.00	NaN	NaN		0.00	

group: GENERAL MILLS REESES PUFFS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1657	2009.65	1.07	2010.00	2009.68	1.48	2008.00
month	2	1657	6.03	3.09	7.00	6.16	4.45	1.00
store_id	3	1657	703.56	302.82	728.00	712.24	364.72	108.00
week_id	4	1657	12.27	4.40	12.00	12.34	4.45	4.00
market_name	5	1657	2.44	1.19	2.00	2.42	1.48	1.00
state	6	1657	3.36	1.40	3.00	3.45	1.48	1.00
brand	7	1657	10.00	0.00	10.00	10.00	0.00	10.00
parent	8	1657	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1657	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1657	1.00	0.00	1.00	1.00	0.00	1.00

fiber	11	1657	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1657	13.00	0.00	13.00	13.00	0.00	13.00
price	13	1657	0.25	0.05	0.25	0.25	0.05	0.13
quantity	14	1657	269.98	458.37	169.00	202.93	142.33	13.00
puma	15	1657	2873.08	1196.94	2700.00	2841.27	1042.27	1300.00
sugar_price	16	1657	205.58	11.90	205.96	205.33	11.39	187.08
M	17	1657	62979.50	49586.58	49760.83	54320.97	29005.96	4362.54
segment	18	1657	2.00	0.00	2.00	2.00	0.00	2.00
		max	range	skew	kurtosis		se	
year		2011.00	3.00	-0.17	-1.23		0.03	
month		10.00	9.00	-0.25	-1.08		0.08	
store_id		1187.00	1079.00	-0.19	-1.06		7.44	
week_id		19.00	15.00	-0.12	-1.11		0.11	
market_name		4.00	3.00	0.08	-1.52		0.03	
state		5.00	4.00	-0.47	-0.90		0.03	
brand		10.00	0.00	NaN	NaN		0.00	
parent		1.00	0.00	NaN	NaN		0.00	
flavored		1.00	0.00	NaN	NaN		0.00	
fortified		1.00	0.00	NaN	NaN		0.00	
fiber		0.00	0.00	NaN	NaN		0.00	
sugars		13.00	0.00	NaN	NaN		0.00	
price		0.38	0.25	0.36	-0.19		0.00	
quantity		10288.00	10275.00	11.88	207.97		11.26	
puma		4702.00	3402.00	0.13	-1.05		29.40	
sugar_price		227.51	40.43	0.09	-1.02		0.29	
M		417883.00	413520.46	2.44	8.10		1218.16	
segment		2.00	0.00	NaN	NaN		0.00	

group: GENERAL MILLS TOTAL

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1648	2009.62	1.07	2010.00	2009.65	1.48	2008.00
month	2	1648	5.96	3.12	7.00	6.08	4.45	1.00
store_id	3	1648	696.61	299.91	713.50	703.68	346.19	108.00
week_id	4	1648	12.13	4.37	12.00	12.18	4.45	4.00
market_name	5	1648	2.44	1.19	2.00	2.42	1.48	1.00
state	6	1648	3.34	1.41	3.00	3.42	1.48	1.00
brand	7	1648	11.00	0.00	11.00	11.00	0.00	11.00
parent	8	1648	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1648	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1648	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1648	2.67	0.00	2.67	2.67	0.00	2.67
sugars	12	1648	9.33	0.00	9.33	9.33	0.00	9.33
price	13	1648	0.31	0.04	0.31	0.31	0.04	0.06

quantity	14	1648	188.42	199.93	118.35	150.34	118.38	10.60
puma	15	1648	2868.70	1191.99	2700.00	2835.83	1042.27	1300.00
sugar_price	16	1648	205.91	12.09	205.96	205.70	11.39	187.08
M	17	1648	63064.86	49444.03	49813.10	54456.05	28683.62	4042.54
segment	18	1648	1.00	0.00	1.00	1.00	0.00	1.00
		max	range	skew	kurtosis	se		
year	2011.00	3.00	-0.13	-1.23	0.03			
month	10.00	9.00	-0.23	-1.11	0.08			
store_id	1184.00	1076.00	-0.16	-1.05	7.39			
week_id	19.00	15.00	-0.07	-1.12	0.11			
market_name	4.00	3.00	0.08	-1.51	0.03			
state	5.00	4.00	-0.45	-0.96	0.03			
brand	11.00	0.00	NaN	NaN	0.00			
parent	1.00	0.00	NaN	NaN	0.00			
flavored	1.00	0.00	NaN	NaN	0.00			
fortified	1.00	0.00	NaN	NaN	0.00			
fiber	2.67	0.00	Inf	NaN	0.00			
sugars	9.33	0.00	-Inf	NaN	0.00			
price	0.41	0.35	-0.33	0.33	0.00			
quantity	1301.69	1291.09	2.17	5.73	4.92			
puma	4702.00	3402.00	0.12	-1.04	29.36			
sugar_price	227.51	40.43	0.07	-1.04	0.30			
M	417883.00	413840.46	2.46	8.23	1217.97			
segment	1.00	0.00	NaN	NaN	0.00			

group: GENERAL MILLS TOTAL RAISIN BR

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1437	2009.61	1.06	2010.00	2009.63	1.48	2008.00
month	2	1437	5.99	3.12	7.00	6.12	4.45	1.00
store_id	3	1437	695.37	298.61	712.00	702.20	345.45	108.00
week_id	4	1437	12.09	4.35	12.00	12.12	4.45	4.00
market_name	5	1437	2.36	1.20	2.00	2.32	1.48	1.00
state	6	1437	3.25	1.43	3.00	3.31	1.48	1.00
brand	7	1437	12.00	0.00	12.00	12.00	0.00	12.00
parent	8	1437	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1437	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1437	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1437	2.67	0.00	2.67	2.67	0.00	2.67
sugars	12	1437	9.33	0.00	9.33	9.33	0.00	9.33
price	13	1437	0.22	0.03	0.22	0.22	0.02	0.11
quantity	14	1437	122.14	117.31	91.25	100.68	81.17	18.25
puma	15	1437	2815.28	1129.97	2700.00	2769.14	1042.27	1300.00
sugar_price	16	1437	205.86	12.11	205.96	205.66	11.39	187.08

M	17	1437	64002.00	48999.45	50736.13	55506.00	28396.55	5093.58
segment	18	1437	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis	se		
year	2011.00		3.00	-0.12	-1.22	0.03		
month	10.00		9.00	-0.24	-1.11	0.08		
store_id	1187.00	1079.00	-0.16	-1.04	7.88			
week_id	19.00	15.00	-0.07	-1.09	0.11			
market_name	4.00	3.00	0.21	-1.50	0.03			
state	5.00	4.00	-0.34	-1.06	0.04			
brand	12.00	0.00	NaN	NaN	0.00			
parent	1.00	0.00	NaN	NaN	0.00			
flavored	0.00	0.00	NaN	NaN	0.00			
fortified	1.00	0.00	NaN	NaN	0.00			
fiber	2.67	0.00	Inf	NaN	0.00			
sugars	9.33	0.00	-Inf	NaN	0.00			
price	0.31	0.20	-0.69	1.33	0.00			
quantity	967.23	948.98	2.37	7.93	3.09			
puma	4702.00	3402.00	0.15	-0.86	29.81			
sugar_price	227.51	40.43	0.05	-1.07	0.32			
M	417883.00	412789.42	2.40	7.82	1292.60			
segment	3.00	0.00	NaN	NaN	0.00			

group: GENERAL MILLS TRIX

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1623	2009.64	1.08	2010.00	2009.67	1.48	2008.00
month	2	1623	6.00	3.12	7.00	6.12	4.45	1.00
store_id	3	1623	702.07	302.50	716.00	710.20	357.31	108.00
week_id	4	1623	12.22	4.43	12.00	12.27	5.93	4.00
market_name	5	1623	2.43	1.17	2.00	2.42	1.48	1.00
state	6	1623	3.32	1.41	3.00	3.40	1.48	1.00
brand	7	1623	13.00	0.00	13.00	13.00	0.00	13.00
parent	8	1623	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1623	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1623	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1623	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1623	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1623	0.27	0.05	0.27	0.27	0.05	0.15
quantity	14	1623	181.38	336.03	103.21	129.49	94.90	10.70
puma	15	1623	2921.72	1200.99	2700.00	2901.95	1042.27	1300.00
sugar_price	16	1623	206.01	12.03	205.96	205.82	11.39	187.08
M	17	1623	63200.13	49120.31	50054.38	54600.66	28719.01	5024.22
segment	18	1623	2.00	0.00	2.00	2.00	0.00	2.00
		max	range	skew	kurtosis	se		

year	2011.00	3.00	-0.14	-1.25	0.03
month	10.00	9.00	-0.24	-1.12	0.08
store_id	1187.00	1079.00	-0.17	-1.07	7.51
week_id	19.00	15.00	-0.08	-1.15	0.11
market_name	4.00	3.00	0.08	-1.48	0.03
state	5.00	4.00	-0.45	-0.95	0.03
brand	13.00	0.00	NaN	NaN	0.00
parent	1.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00
sugars	12.00	0.00	NaN	NaN	0.00
price	0.43	0.28	0.47	0.53	0.00
quantity	6618.75	6608.05	10.44	153.90	8.34
puma	4702.00	3402.00	0.08	-1.08	29.81
sugar_price	227.51	40.43	0.08	-1.03	0.30
M	417883.00	412858.78	2.46	8.31	1219.28
segment	2.00	0.00	NaN	NaN	0.00

group: GENERAL MILLS WHEATIES

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1648	2009.62	1.06	2010.00	2009.65	1.48	2008.00
month	2	1648	6.02	3.13	7.00	6.15	4.45	1.00
store_id	3	1648	696.97	298.72	714.00	704.04	348.41	108.00
week_id	4	1648	12.16	4.37	12.00	12.19	4.45	4.00
market_name	5	1648	2.43	1.20	2.00	2.41	1.48	1.00
state	6	1648	3.33	1.42	3.00	3.41	1.48	1.00
brand	7	1648	14.00	0.00	14.00	14.00	0.00	14.00
parent	8	1648	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	1648	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1648	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1648	3.00	0.00	3.00	3.00	0.00	3.00
sugars	12	1648	3.00	0.00	3.00	3.00	0.00	3.00
price	13	1648	0.28	0.04	0.28	0.28	0.04	0.16
quantity	14	1648	146.26	142.75	109.20	119.93	92.51	10.90
puma	15	1648	2844.72	1179.83	2700.00	2805.89	1042.27	1300.00
sugar_price	16	1648	205.82	12.10	205.96	205.61	11.39	187.08
M	17	1648	61880.53	49617.26	48838.08	53208.09	28905.44	4042.54
segment	18	1648	1.00	0.00	1.00	1.00	0.00	1.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.14	-1.22	0.03		
month		10.00	9.00	-0.24	-1.12	0.08		
store_id		1187.00	1079.00	-0.16	-1.04	7.36		

week_id	19.00	15.00	-0.07	-1.11	0.11
market_name	4.00	3.00	0.10	-1.52	0.03
state	5.00	4.00	-0.43	-0.99	0.03
brand	14.00	0.00	NaN	NaN	0.00
parent	1.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00
fiber	3.00	0.00	NaN	NaN	0.00
sugars	3.00	0.00	NaN	NaN	0.00
price	0.39	0.23	0.15	-0.33	0.00
quantity	1185.60	1174.70	2.69	10.11	3.52
puma	4702.00	3402.00	0.14	-1.01	29.06
sugar_price	227.51	40.43	0.07	-1.05	0.30
M	417883.00	413840.46	2.47	8.27	1222.23
segment	1.00	0.00	NaN	NaN	0.00

group: KASHI GO LEAN CRUNCH

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1448	2009.68	1.07	2010.00	2009.73	1.48	2008.00
month	2	1448	5.98	3.14	7.00	6.11	4.45	1.00
store_id	3	1448	715.36	299.27	737.00	725.86	363.24	108.00
week_id	4	1448	12.39	4.41	13.00	12.50	5.93	4.00
market_name	5	1448	2.40	1.20	2.00	2.38	1.48	1.00
state	6	1448	3.29	1.43	3.00	3.36	1.48	1.00
brand	7	1448	15.00	0.00	15.00	15.00	0.00	15.00
parent	8	1448	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1448	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1448	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1448	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1448	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1448	0.25	0.04	0.24	0.25	0.04	0.16
quantity	14	1448	301.75	345.10	180.00	234.41	177.91	15.00
puma	15	1448	2837.22	1161.22	2700.00	2796.56	1042.27	1300.00
sugar_price	16	1448	205.67	12.00	201.87	205.39	16.29	187.08
M	17	1448	63563.73	50860.50	50250.54	54601.48	29793.27	4238.01
segment	18	1448	1.00	0.00	1.00	1.00	0.00	1.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.19	-1.22	0.03			
month	10.00	9.00	-0.22	-1.14	0.08			
store_id	1187.00	1079.00	-0.22	-1.04	7.86			
week_id	19.00	15.00	-0.15	-1.08	0.12			
market_name	4.00	3.00	0.14	-1.51	0.03			
state	5.00	4.00	-0.39	-1.03	0.04			

brand	15.00	0.00	NaN	NaN	0.00
parent	2.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00
sugars	12.00	0.00	NaN	NaN	0.00
price	0.39	0.23	0.59	0.01	0.00
quantity	3315.00	3300.00	2.66	10.87	9.07
puma	4702.00	3402.00	0.14	-0.95	30.52
sugar_price	227.51	40.43	0.10	-1.05	0.32
M	417883.00	413644.99	2.43	7.89	1336.58
segment	1.00	0.00	NaN	NaN	0.00

group: KELLOGGS APPLE JACKS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1634	2009.63	1.10	2010.00	2009.66	1.48	2008.00
month	2	1634	5.91	3.14	7.00	6.02	4.45	1.00
store_id	3	1634	700.24	308.45	724.00	708.81	377.32	108.00
week_id	4	1634	12.16	4.49	12.00	12.23	5.93	4.00
market_name	5	1634	2.41	1.18	2.00	2.39	1.48	1.00
state	6	1634	3.32	1.39	3.00	3.40	1.48	1.00
brand	7	1634	16.00	0.00	16.00	16.00	0.00	16.00
parent	8	1634	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1634	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1634	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1634	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1634	14.00	0.00	14.00	14.00	0.00	14.00
price	13	1634	0.25	0.05	0.24	0.25	0.05	0.13
quantity	14	1634	274.62	408.13	172.70	208.91	161.75	8.70
puma	15	1634	2921.50	1192.69	2700.00	2901.69	1042.27	1300.00
sugar_price	16	1634	205.63	11.80	205.96	205.33	10.24	187.08
M	17	1634	63032.29	49632.44	49767.14	54303.26	28323.82	4042.54
segment	18	1634	3.00	0.00	3.00	3.00	0.00	3.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.16	-1.29	0.03			
month	10.00	9.00	-0.20	-1.15	0.08			
store_id	1187.00	1079.00	-0.19	-1.11	7.63			
week_id	19.00	15.00	-0.10	-1.18	0.11			
market_name	4.00	3.00	0.10	-1.49	0.03			
state	5.00	4.00	-0.45	-0.91	0.03			
brand	16.00	0.00	NaN	NaN	0.00			
parent	2.00	0.00	NaN	NaN	0.00			
flavored	1.00	0.00	NaN	NaN	0.00			

fortified	0.00	0.00	NaN	NaN	0.00
fiber	1.00	0.00	NaN	NaN	0.00
sugars	14.00	0.00	NaN	NaN	0.00
price	0.49	0.36	0.73	1.21	0.00
quantity	10430.58	10421.88	11.72	249.90	10.10
puma	4702.00	3402.00	0.09	-1.05	29.51
sugar_price	227.51	40.43	0.12	-0.94	0.29
M	417883.00	413840.46	2.46	8.19	1227.83
segment	3.00	0.00	NaN	NaN	0.00

group: KELLOGGS COCOA KRISPIES

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1530	2009.61	1.11	2010.00	2009.64	1.48	2008.00
month	2	1530	5.89	3.19	7.00	5.98	4.45	1.00
store_id	3	1530	695.10	311.63	714.50	702.52	389.18	108.00
week_id	4	1530	12.07	4.54	12.00	12.11	5.93	4.00
market_name	5	1530	2.39	1.17	2.00	2.36	1.48	1.00
state	6	1530	3.30	1.38	3.00	3.37	1.48	1.00
brand	7	1530	17.00	0.00	17.00	17.00	0.00	17.00
parent	8	1530	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1530	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1530	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1530	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1530	3.00	0.00	3.00	3.00	0.00	3.00
price	13	1530	0.22	0.05	0.21	0.21	0.05	0.12
quantity	14	1530	251.45	301.29	165.01	197.67	137.74	8.80
puma	15	1530	2951.60	1186.79	2700.00	2939.25	1042.27	1300.00
sugar_price	16	1530	205.99	11.66	205.96	205.77	10.24	187.08
M	17	1530	62697.70	49113.82	49643.66	54131.29	28473.10	4042.54
segment	18	1530	2.00	0.00	2.00	2.00	0.00	2.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.14	-1.32	0.03
month	10.00	9.00	-0.22	-1.18	0.08
store_id	1187.00	1079.00	-0.16	-1.15	7.97
week_id	19.00	15.00	-0.06	-1.21	0.12
market_name	4.00	3.00	0.13	-1.47	0.03
state	5.00	4.00	-0.44	-0.91	0.04
brand	17.00	0.00	NaN	NaN	0.00
parent	2.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00
sugars	3.00	0.00	NaN	NaN	0.00

price	0.49	0.37	1.39	5.67	0.00
quantity	5714.26	5705.46	6.07	78.40	7.70
puma	4702.00	3402.00	0.06	-1.03	30.34
sugar_price	227.51	40.43	0.08	-0.89	0.30
M	417883.00	413840.46	2.40	7.82	1255.62
segment	2.00	0.00	NaN	NaN	0.00

group: KELLOGGS CORN FLAKES

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1716	2009.64	1.09	2010.00	2009.68	1.48	2008.00
month	2	1716	5.99	3.17	7.00	6.12	4.45	1.00
store_id	3	1716	701.45	304.83	724.00	710.12	373.62	108.00
week_id	4	1716	12.23	4.46	12.00	12.30	5.93	4.00
market_name	5	1716	2.44	1.19	2.00	2.43	1.48	1.00
state	6	1716	3.36	1.39	3.00	3.45	1.48	1.00
brand	7	1716	18.00	0.00	18.00	18.00	0.00	18.00
parent	8	1716	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1716	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1716	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1716	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1716	2.00	0.00	2.00	2.00	0.00	2.00
price	13	1716	0.21	0.04	0.21	0.20	0.04	0.10
quantity	14	1716	510.25	551.92	360.00	414.66	302.45	12.00
puma	15	1716	2896.14	1205.05	2700.00	2870.04	1042.27	1300.00
sugar_price	16	1716	205.66	11.80	205.96	205.38	11.39	187.08
M	17	1716	61770.72	49086.04	49074.26	53267.35	28393.41	4042.54
segment	18	1716	1.00	0.00	1.00	1.00	0.00	1.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.17	-1.26	0.03			
month	10.00	9.00	-0.24	-1.15	0.08			
store_id	1187.00	1079.00	-0.19	-1.08	7.36			
week_id	19.00	15.00	-0.10	-1.14	0.11			
market_name	4.00	3.00	0.06	-1.51	0.03			
state	5.00	4.00	-0.48	-0.88	0.03			
brand	18.00	0.00	NaN	NaN	0.00			
parent	2.00	0.00	NaN	NaN	0.00			
flavored	0.00	0.00	NaN	NaN	0.00			
fortified	0.00	0.00	NaN	NaN	0.00			
fiber	1.00	0.00	NaN	NaN	0.00			
sugars	2.00	0.00	NaN	NaN	0.00			
price	0.33	0.23	0.52	0.00	0.00			
quantity	4980.14	4968.14	3.63	19.25	13.32			
puma	4702.00	3402.00	0.11	-1.08	29.09			

sugar_price	227.51	40.43	0.10	-0.96	0.28
M	417883.00	413840.46	2.48	8.41	1184.95
segment	1.00	0.00	NaN	NaN	0.00

group: KELLOGGS CORN POPS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1609	2009.61	1.11	2010.00	2009.64	1.48	2008.00
month	2	1609	5.88	3.17	7.00	5.97	4.45	1.00
store_id	3	1609	693.71	310.95	713.00	700.82	389.92	108.00
week_id	4	1609	12.07	4.53	12.00	12.12	5.93	4.00
market_name	5	1609	2.42	1.18	2.00	2.40	1.48	1.00
state	6	1609	3.34	1.39	3.00	3.43	1.48	1.00
brand	7	1609	19.00	0.00	19.00	19.00	0.00	19.00
parent	8	1609	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1609	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1609	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1609	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1609	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1609	0.25	0.04	0.24	0.24	0.04	0.16
quantity	14	1609	237.92	268.51	161.00	187.20	139.07	5.70
puma	15	1609	2914.72	1197.78	2700.00	2893.30	1042.27	1300.00
sugar_price	16	1609	206.08	11.65	205.96	205.89	10.24	187.08
M	17	1609	62942.73	49656.09	49773.44	54265.30	28343.84	4238.01
segment	18	1609	3.00	0.00	3.00	3.00	0.00	3.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.13	-1.33	0.03
month	10.00	9.00	-0.17	-1.19	0.08
store_id	1187.00	1079.00	-0.15	-1.14	7.75
week_id	19.00	15.00	-0.06	-1.21	0.11
market_name	4.00	3.00	0.09	-1.50	0.03
state	5.00	4.00	-0.47	-0.88	0.03
brand	19.00	0.00	NaN	NaN	0.00
parent	2.00	0.00	NaN	NaN	0.00
flavored	0.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00
fiber	1.00	0.00	NaN	NaN	0.00
sugars	12.00	0.00	NaN	NaN	0.00
price	0.38	0.23	0.59	-0.08	0.00
quantity	2697.38	2691.68	3.41	17.87	6.69
puma	4702.00	3402.00	0.10	-1.06	29.86
sugar_price	227.51	40.43	0.07	-0.90	0.29
M	417883.00	413644.99	2.46	8.20	1237.93
segment	3.00	0.00	NaN	NaN	0.00

group: KELLOGGS FROOT LOOPS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1655	2009.62	1.10	2010.00	2009.65	1.48	2008.00
month	2	1655	5.89	3.17	7.00	5.98	4.45	1.00
store_id	3	1655	696.93	309.14	718.00	704.76	385.48	108.00
week_id	4	1655	12.12	4.50	12.00	12.17	5.93	4.00
market_name	5	1655	2.44	1.18	2.00	2.43	1.48	1.00
state	6	1655	3.35	1.40	3.00	3.44	1.48	1.00
brand	7	1655	20.00	0.00	20.00	20.00	0.00	20.00
parent	8	1655	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1655	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1655	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1655	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1655	13.00	0.00	13.00	13.00	0.00	13.00
price	13	1655	0.25	0.05	0.24	0.25	0.04	0.15
quantity	14	1655	357.27	448.28	224.01	280.46	220.33	8.70
puma	15	1655	2912.24	1206.17	2700.00	2890.13	1042.27	1300.00
sugar_price	16	1655	205.91	11.73	205.96	205.68	10.24	187.08
M	17	1655	62488.60	49520.89	49539.52	53819.36	28690.65	4238.01
segment	18	1655	2.00	0.00	2.00	2.00	0.00	2.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.15	-1.30	0.03
month	10.00	9.00	-0.18	-1.18	0.08
store_id	1187.00	1079.00	-0.17	-1.12	7.60
week_id	19.00	15.00	-0.08	-1.18	0.11
market_name	4.00	3.00	0.06	-1.50	0.03
state	5.00	4.00	-0.48	-0.90	0.03
brand	20.00	0.00	NaN	NaN	0.00
parent	2.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	1.00	0.00	NaN	NaN	0.00
sugars	13.00	0.00	NaN	NaN	0.00
price	0.49	0.35	0.93	2.33	0.00
quantity	6951.91	6943.21	5.65	60.46	11.02
puma	4702.00	3402.00	0.09	-1.09	29.65
sugar_price	227.51	40.43	0.09	-0.92	0.29
M	417883.00	413644.99	2.47	8.26	1217.28
segment	2.00	0.00	NaN	NaN	0.00

group: KELLOGGS FROSTED FLAKES

	vars	n	mean	sd	median	trimmed	mad	min
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year	1	1714	2009.64	1.09	2010.00	2009.68	1.48	2008.00
month	2	1714	6.00	3.16	7.00	6.13	4.45	1.00
store_id	3	1714	701.46	306.34	725.00	710.22	375.10	108.00
week_id	4	1714	12.23	4.48	12.00	12.30	5.93	4.00
market_name	5	1714	2.43	1.18	2.00	2.42	1.48	1.00
state	6	1714	3.35	1.39	3.00	3.44	1.48	1.00
brand	7	1714	21.00	0.00	21.00	21.00	0.00	21.00
parent	8	1714	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1714	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1714	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1714	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1714	11.00	0.00	11.00	11.00	0.00	11.00
price	13	1714	0.19	0.03	0.19	0.19	0.04	0.12
quantity	14	1714	877.97	881.77	597.75	719.96	488.15	14.00
puma	15	1714	2913.54	1205.10	2700.00	2891.73	1042.27	1300.00
sugar_price	16	1714	205.55	11.74	205.96	205.26	10.24	187.08
M	17	1714	62123.38	49042.76	49506.88	53662.45	28710.90	4042.54
segment	18	1714	2.00	0.00	2.00	2.00	0.00	2.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.18	-1.27	0.03		
month		10.00	9.00	-0.24	-1.15	0.08		
store_id		1187.00	1079.00	-0.20	-1.09	7.40		
week_id		19.00	15.00	-0.11	-1.14	0.11		
market_name		4.00	3.00	0.07	-1.50	0.03		
state		5.00	4.00	-0.48	-0.88	0.03		
brand		21.00	0.00	NaN	NaN	0.00		
parent		2.00	0.00	NaN	NaN	0.00		
flavored		0.00	0.00	NaN	NaN	0.00		
fortified		1.00	0.00	NaN	NaN	0.00		
fiber		1.00	0.00	NaN	NaN	0.00		
sugars		11.00	0.00	NaN	NaN	0.00		
price		0.31	0.19	0.37	0.25	0.00		
quantity		11025.08	11011.08	3.14	18.52	21.30		
puma		4702.00	3402.00	0.10	-1.08	29.11		
sugar_price		227.51	40.43	0.11	-0.95	0.28		
M		417883.00	413840.46	2.47	8.39	1184.59		
segment		2.00	0.00	NaN	NaN	0.00		

group: KELLOGGS FROSTED MINI WHEATS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1706	2009.65	1.09	2010.00	2009.69	1.48	2008.00
month	2	1706	5.95	3.15	7.00	6.07	4.45	1.00
store_id	3	1706	704.48	306.02	729.00	713.92	372.13	108.00

week_id	4	1706	12.26	4.49	12.00	12.34	5.93	4.00
market_name	5	1706	2.45	1.19	2.00	2.44	1.48	1.00
state	6	1706	3.36	1.40	3.00	3.45	1.48	1.00
brand	7	1706	22.00	0.00	22.00	22.00	0.00	22.00
parent	8	1706	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1706	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1706	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1706	3.00	0.00	3.00	3.00	0.00	3.00
sugars	12	1706	7.00	0.00	7.00	7.00	0.00	7.00
price	13	1706	0.19	0.03	0.18	0.18	0.03	0.12
quantity	14	1706	998.55	984.44	719.46	824.40	639.68	16.30
puma	15	1706	2896.48	1209.81	2700.00	2870.46	1042.27	1300.00
sugar_price	16	1706	205.53	11.79	205.96	205.21	10.24	187.08
M	17	1706	61948.57	49194.43	49248.08	53431.58	28936.70	4042.54
segment	18	1706	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis	se		
year	2011.00	3.00	-0.19	-1.26	0.03			
month	10.00	9.00	-0.23	-1.14	0.08			
store_id	1187.00	1079.00	-0.21	-1.08	7.41			
week_id	19.00	15.00	-0.12	-1.15	0.11			
market_name	4.00	3.00	0.05	-1.51	0.03			
state	5.00	4.00	-0.49	-0.90	0.03			
brand	22.00	0.00	NaN	NaN	0.00			
parent	2.00	0.00	NaN	NaN	0.00			
flavored	1.00	0.00	NaN	NaN	0.00			
fortified	0.00	0.00	NaN	NaN	0.00			
fiber	3.00	0.00	NaN	NaN	0.00			
sugars	7.00	0.00	NaN	NaN	0.00			
price	0.30	0.19	0.64	0.32	0.00			
quantity	7806.99	7790.69	2.51	9.21	23.83			
puma	4702.00	3402.00	0.11	-1.10	29.29			
sugar_price	227.51	40.43	0.13	-0.94	0.29			
M	417883.00	413840.46	2.47	8.34	1191.04			
segment	3.00	0.00	NaN	NaN	0.00			

group: KELLOGGS RAISIN BRAN

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1706	2009.64	1.09	2010.00	2009.68	1.48	2008.00
month	2	1706	5.99	3.16	7.00	6.11	4.45	1.00
store_id	3	1706	702.54	305.82	728.00	711.43	372.13	108.00
week_id	4	1706	12.23	4.48	12.00	12.31	5.93	4.00
market_name	5	1706	2.44	1.18	2.00	2.42	1.48	1.00
state	6	1706	3.36	1.38	3.00	3.45	1.48	1.00

brand	7	1706	23.00	0.00	23.00	23.00	0.00	23.00
parent	8	1706	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1706	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1706	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1706	3.76	0.00	3.76	3.76	0.00	3.76
sugars	12	1706	9.02	0.00	9.02	9.02	0.00	9.02
price	13	1706	0.16	0.02	0.16	0.16	0.02	0.09
quantity	14	1706	603.32	541.16	459.51	514.08	378.07	15.00
puma	15	1706	2911.65	1207.51	2700.00	2889.42	1042.27	1300.00
sugar_price	16	1706	205.49	11.79	205.96	205.17	10.24	187.08
M	17	1706	62087.19	49134.72	49425.50	53586.37	28796.55	4042.54
segment	18	1706	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis		se	
year	2011.00		3.00	-0.18	-1.26		0.03	
month	10.00		9.00	-0.24	-1.15		0.08	
store_id	1187.00		1079.00	-0.21	-1.08		7.40	
week_id	19.00		15.00	-0.11	-1.15		0.11	
market_name	4.00		3.00	0.06	-1.50		0.03	
state	5.00		4.00	-0.49	-0.86		0.03	
brand	23.00		0.00	NaN	NaN		0.00	
parent	2.00		0.00	NaN	NaN		0.00	
flavored	0.00		0.00	NaN	NaN		0.00	
fortified	0.00		0.00	NaN	NaN		0.00	
fiber	3.76		0.00	-Inf	NaN		0.00	
sugars	9.02		0.00	Inf	NaN		0.00	
price	0.24		0.14	0.38	-0.10		0.00	
quantity	4713.85		4698.85	2.31	7.87		13.10	
puma	4702.00		3402.00	0.10	-1.09		29.23	
sugar_price	227.51		40.43	0.12	-0.95		0.29	
M	417883.00		413840.46	2.47	8.37	1189.59		
segment	3.00		0.00	NaN	NaN		0.00	

group: KELLOGGS RAISIN BRAN CRUNCH

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1616	2009.61	1.09	2010.00	2009.64	1.48	2008.00
month	2	1616	6.08	3.13	7.00	6.22	4.45	1.00
store_id	3	1616	695.11	308.41	714.00	702.37	377.32	108.00
week_id	4	1616	12.13	4.51	12.00	12.18	5.93	4.00
market_name	5	1616	2.42	1.18	2.00	2.40	1.48	1.00
state	6	1616	3.34	1.39	3.00	3.42	1.48	1.00
brand	7	1616	24.00	0.00	24.00	24.00	0.00	24.00
parent	8	1616	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1616	1.00	0.00	1.00	1.00	0.00	1.00

fortified	10	1616	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1616	3.76	0.00	3.76	3.76	0.00	3.76
sugars	12	1616	9.02	0.00	9.02	9.02	0.00	9.02
price	13	1616	0.20	0.03	0.20	0.20	0.04	0.09
quantity	14	1616	333.77	292.68	254.80	286.33	188.96	18.20
puma	15	1616	2927.98	1201.34	2700.00	2909.81	1042.27	1300.00
sugar_price	16	1616	205.68	11.95	205.96	205.40	11.39	187.08
M	17	1616	63372.13	49072.85	50250.54	54832.76	28715.25	4781.94
segment	18	1616	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis		se	
year	2011	1.00	3.00	-0.13	-1.30		0.03	
month	10	1.00	9.00	-0.25	-1.12		0.08	
store_id	1187	1.00	1079.00	-0.16	-1.12		7.67	
week_id	19	1.00	15.00	-0.08	-1.17		0.11	
market_name	4	1.00	3.00	0.08	-1.49		0.03	
state	5	1.00	4.00	-0.47	-0.89		0.03	
brand	24	1.00	0.00	NaN	NaN		0.00	
parent	2	1.00	0.00	NaN	NaN		0.00	
flavored	1	1.00	0.00	NaN	NaN		0.00	
fortified	0	1.00	0.00	NaN	NaN		0.00	
fiber	3.76	1.00	0.00	-Inf	NaN		0.00	
sugars	9.02	1.00	0.00	Inf	NaN		0.00	
price	0.31	1.00	0.22	0.00	-0.58		0.00	
quantity	2407.77	1.00	2389.57	2.13	7.05		7.28	
puma	4702.00	1.00	3402.00	0.08	-1.07		29.88	
sugar_price	227.51	1.00	40.43	0.09	-1.01		0.30	
M	417883.00	1.00	413101.06	2.40	7.77		1220.73	
segment	3	1.00	0.00	NaN	NaN		0.00	

group: KELLOGGS RICE KRISPIES

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1690	2009.63	1.09	2010.00	2009.67	1.48	2008.00
month	2	1690	5.91	3.13	7.00	6.01	4.45	1.00
store_id	3	1690	700.46	306.46	728.00	709.13	371.39	108.00
week_id	4	1690	12.17	4.47	12.00	12.24	5.93	4.00
market_name	5	1690	2.42	1.18	2.00	2.40	1.48	1.00
state	6	1690	3.33	1.39	3.00	3.42	1.48	1.00
brand	7	1690	25.00	0.00	25.00	25.00	0.00	25.00
parent	8	1690	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1690	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1690	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1690	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1690	3.00	0.00	3.00	3.00	0.00	3.00

price	13	1690	0.26	0.05	0.25	0.25	0.05	0.14
quantity	14	1690	439.59	386.13	330.00	379.28	275.76	9.00
puma	15	1690	2908.33	1195.59	2700.00	2885.16	1042.27	1300.00
sugar_price	16	1690	205.47	11.83	205.96	205.13	10.24	187.08
M	17	1690	62201.67	49196.76	49337.82	53573.03	28535.79	4238.01
segment	18	1690	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.18	-1.27	0.03		
month		10.00	9.00	-0.20	-1.14	0.08		
store_id		1187.00	1079.00	-0.20	-1.09	7.45		
week_id		19.00	15.00	-0.11	-1.15	0.11		
market_name		4.00	3.00	0.09	-1.50	0.03		
state		5.00	4.00	-0.46	-0.91	0.03		
brand		25.00	0.00	NaN	NaN	0.00		
parent		2.00	0.00	NaN	NaN	0.00		
flavored		1.00	0.00	NaN	NaN	0.00		
fortified		1.00	0.00	NaN	NaN	0.00		
fiber		0.00	0.00	NaN	NaN	0.00		
sugars		3.00	0.00	NaN	NaN	0.00		
price		0.46	0.33	0.71	0.73	0.00		
quantity		3762.00	3753.00	2.19	7.71	9.39		
puma		4702.00	3402.00	0.10	-1.06	29.08		
sugar_price		227.51	40.43	0.13	-0.95	0.29		
M		417883.00	413644.99	2.48	8.39	1196.72		
segment		3.00	0.00	NaN	NaN	0.00		

group: KELLOGGS SPECIAL K

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1621	2009.66	1.08	2010.00	2009.70	1.48	2008.00
month	2	1621	5.96	3.11	7.00	6.07	4.45	1.00
store_id	3	1621	708.79	304.80	733.00	718.99	367.68	108.00
week_id	4	1621	12.30	4.41	13.00	12.38	5.93	4.00
market_name	5	1621	2.38	1.17	2.00	2.36	1.48	1.00
state	6	1621	3.29	1.39	3.00	3.37	1.48	1.00
brand	7	1621	26.00	0.00	26.00	26.00	0.00	26.00
parent	8	1621	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1621	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1621	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1621	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1621	3.00	0.00	3.00	3.00	0.00	3.00
price	13	1621	0.25	0.04	0.25	0.25	0.04	0.15
quantity	14	1621	497.13	580.11	318.00	379.28	284.66	12.00
puma	15	1621	2940.68	1182.43	2700.00	2925.61	1042.27	1300.00

sugar_price	16	1621	205.34	11.83	201.87	204.99	14.90	187.08
M	17	1621	62355.43	48346.75	49653.27	53993.19	28116.50	4042.54
segment	18	1621	1.00	0.00	1.00	1.00	0.00	1.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.20	-1.25	0.03		
month		10.00	9.00	-0.21	-1.12	0.08		
store_id		1187.00	1079.00	-0.23	-1.06	7.57		
week_id		19.00	15.00	-0.13	-1.15	0.11		
market_name		4.00	3.00	0.13	-1.47	0.03		
state		5.00	4.00	-0.43	-0.93	0.03		
brand		26.00	0.00	NaN	NaN	0.00		
parent		2.00	0.00	NaN	NaN	0.00		
flavored		1.00	0.00	NaN	NaN	0.00		
fortified		0.00	0.00	NaN	NaN	0.00		
fiber		1.00	0.00	NaN	NaN	0.00		
sugars		3.00	0.00	NaN	NaN	0.00		
price		0.39	0.24	0.65	0.85	0.00		
quantity		4551.06	4539.06	3.05	11.83	14.41		
puma		4702.00	3402.00	0.07	-1.02	29.37		
sugar_price		227.51	40.43	0.14	-0.96	0.29		
M		417883.00	413840.46	2.44	8.09	1200.81		
segment		1.00	0.00	NaN	NaN	0.00		

group: KELLOGGS SPECIAL K RED BERRIE

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1626	2009.65	1.09	2010.00	2009.69	1.48	2008.00
month	2	1626	6.03	3.10	7.00	6.16	4.45	1.00
store_id	3	1626	705.57	305.73	731.00	715.09	369.17	108.00
week_id	4	1626	12.29	4.40	12.00	12.37	5.93	4.00
market_name	5	1626	2.40	1.18	2.00	2.38	1.48	1.00
state	6	1626	3.33	1.38	3.00	3.41	1.48	1.00
brand	7	1626	27.00	0.00	27.00	27.00	0.00	27.00
parent	8	1626	2.00	0.00	2.00	2.00	0.00	2.00
flavored	9	1626	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1626	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1626	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1626	3.00	0.00	3.00	3.00	0.00	3.00
price	13	1626	0.27	0.04	0.27	0.26	0.03	0.15
quantity	14	1626	459.74	459.21	334.26	375.18	272.73	12.00
puma	15	1626	2939.19	1196.31	2700.00	2923.81	1042.27	1300.00
sugar_price	16	1626	205.30	11.74	205.96	204.99	11.39	187.08
M	17	1626	62281.39	48305.29	49610.73	53945.12	28026.02	4042.54
segment	18	1626	1.00	0.00	1.00	1.00	0.00	1.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.19	-1.26	0.03
month	10.00	9.00	-0.24	-1.10	0.08
store_id	1187.00	1079.00	-0.21	-1.08	7.58
week_id	19.00	15.00	-0.13	-1.14	0.11
market_name	4.00	3.00	0.10	-1.49	0.03
state	5.00	4.00	-0.47	-0.87	0.03
brand	27.00	0.00	NaN	NaN	0.00
parent	2.00	0.00	NaN	NaN	0.00
flavored	0.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00
fiber	1.00	0.00	NaN	NaN	0.00
sugars	3.00	0.00	NaN	NaN	0.00
price	0.40	0.25	0.76	1.65	0.00
quantity	3751.16	3739.16	2.74	10.17	11.39
puma	4702.00	3402.00	0.08	-1.06	29.67
sugar_price	227.51	40.43	0.12	-0.96	0.29
M	417883.00	413840.46	2.44	8.11	1197.94
segment	1.00	0.00	NaN	NaN	0.00

group: POST COCOA PEBBLES

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1600	2009.65	1.09	2010.00	2009.69	1.48	2008.00
month	2	1600	6.13	3.15	7.00	6.29	4.45	1.00
store_id	3	1600	706.31	306.38	728.50	715.74	372.87	108.00
week_id	4	1600	12.32	4.48	12.00	12.40	5.93	4.00
market_name	5	1600	2.41	1.20	2.00	2.38	1.48	1.00
state	6	1600	3.32	1.41	3.00	3.40	1.48	1.00
brand	7	1600	28.00	0.00	28.00	28.00	0.00	28.00
parent	8	1600	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	1600	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1600	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1600	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1600	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1600	0.25	0.04	0.24	0.25	0.05	0.10
quantity	14	1600	320.69	525.88	201.50	237.92	165.31	13.00
puma	15	1600	2856.40	1174.85	2700.00	2820.25	1042.27	1300.00
sugar_price	16	1600	205.71	11.75	205.96	205.53	11.39	187.08
M	17	1600	61137.31	48020.95	49004.44	52926.90	27859.31	4238.01
segment	18	1600	2.00	0.00	2.00	2.00	0.00	2.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.17	-1.27	0.03
month	10.00	9.00	-0.31	-1.10	0.08

store_id	1187.00	1079.00	-0.21	-1.09	7.66
week_id	19.00	15.00	-0.12	-1.14	0.11
market_name	4.00	3.00	0.12	-1.52	0.03
state	5.00	4.00	-0.42	-0.96	0.04
brand	28.00	0.00	NaN	NaN	0.00
parent	4.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00
sugars	12.00	0.00	NaN	NaN	0.00
price	0.37	0.27	0.18	-0.28	0.00
quantity	9520.00	9507.00	9.81	139.45	13.15
puma	4702.00	3402.00	0.14	-0.99	29.37
sugar_price	227.51	40.43	0.08	-0.97	0.29
M	417883.00	413644.99	2.56	9.26	1200.52
segment	2.00	0.00	NaN	NaN	0.00

group: POST FRUITY PEBBLES

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1623	2009.67	1.08	2010.00	2009.72	1.48	2008.00
month	2	1623	6.11	3.11	7.00	6.26	4.45	1.00
store_id	3	1623	712.30	304.80	741.00	722.98	367.68	108.00
week_id	4	1623	12.40	4.47	13.00	12.51	5.93	4.00
market_name	5	1623	2.45	1.18	2.00	2.44	1.48	1.00
state	6	1623	3.35	1.41	3.00	3.43	1.48	1.00
brand	7	1623	29.00	0.00	29.00	29.00	0.00	29.00
parent	8	1623	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	1623	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1623	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1623	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1623	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1623	0.24	0.04	0.24	0.24	0.05	0.09
quantity	14	1623	593.32	1199.83	340.00	400.24	303.93	13.00
puma	15	1623	2891.69	1203.54	2700.00	2864.43	1042.27	1300.00
sugar_price	16	1623	205.25	11.82	201.87	204.96	14.90	187.08
M	17	1623	61713.58	48005.27	49539.52	53571.67	28434.70	4042.54
segment	18	1623	2.00	0.00	2.00	2.00	0.00	2.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.21	-1.25	0.03			
month	10.00	9.00	-0.30	-1.07	0.08			
store_id	1187.00	1079.00	-0.24	-1.06	7.57			
week_id	19.00	15.00	-0.16	-1.13	0.11			
market_name	4.00	3.00	0.06	-1.50	0.03			

state	5.00	4.00	-0.47	-0.94	0.03
brand	29.00	0.00	NaN	NaN	0.00
parent	4.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00
sugars	12.00	0.00	NaN	NaN	0.00
price	0.37	0.27	0.22	-0.36	0.00
quantity	23846.00	23833.00	11.74	193.05	29.78
puma	4702.00	3402.00	0.11	-1.08	29.87
sugar_price	227.51	40.43	0.13	-0.98	0.29
M	417883.00	413840.46	2.55	9.21	1191.60
segment	2.00	0.00	NaN	NaN	0.00

group: POST GRAPE NUTS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1670	2009.63	1.08	2010.00	2009.66	1.48	2008.00
month	2	1670	6.04	3.11	7.00	6.17	4.45	1.00
store_id	3	1670	695.76	304.25	712.00	703.11	369.17	108.00
week_id	4	1670	12.18	4.45	12.00	12.23	5.93	4.00
market_name	5	1670	2.49	1.20	3.00	2.49	1.48	1.00
state	6	1670	3.40	1.41	4.00	3.50	1.48	1.00
brand	7	1670	30.00	0.00	30.00	30.00	0.00	30.00
parent	8	1670	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	1670	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1670	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1670	3.00	0.00	3.00	3.00	0.00	3.00
sugars	12	1670	3.00	0.00	3.00	3.00	0.00	3.00
price	13	1670	0.16	0.02	0.16	0.16	0.03	0.06
quantity	14	1670	389.66	383.87	282.00	322.44	252.04	16.00
puma	15	1670	2851.98	1219.30	2700.00	2814.73	2075.64	1300.00
sugar_price	16	1670	206.10	11.95	205.96	205.92	11.39	187.08
M	17	1670	61187.96	48364.91	47978.53	52862.23	29225.95	4238.01
segment	18	1670	1.00	0.00	1.00	1.00	0.00	1.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.12	-1.27	0.03			
month	10.00	9.00	-0.26	-1.10	0.08			
store_id	1187.00	1079.00	-0.15	-1.08	7.45			
week_id	19.00	15.00	-0.06	-1.15	0.11			
market_name	4.00	3.00	0.00	-1.53	0.03			
state	5.00	4.00	-0.51	-0.90	0.03			
brand	30.00	0.00	NaN	NaN	0.00			
parent	4.00	0.00	NaN	NaN	0.00			

flavored	0.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00
fiber	3.00	0.00	NaN	NaN	0.00
sugars	3.00	0.00	NaN	NaN	0.00
price	0.23	0.17	-0.10	-0.09	0.00
quantity	3608.00	3592.00	2.55	9.86	9.39
puma	4702.00	3402.00	0.15	-1.12	29.84
sugar_price	227.51	40.43	0.06	-1.03	0.29
M	376638.90	372400.89	2.32	7.11	1183.51
segment	1.00	0.00	NaN	NaN	0.00

group: POST HONEY BUNCHES OF OATS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1759	2009.64	1.07	2010.00	2009.67	1.48	2008.00
month	2	1759	6.07	3.15	7.00	6.21	4.45	1.00
store_id	3	1759	700.61	302.29	718.00	708.87	358.79	108.00
week_id	4	1759	12.23	4.42	12.00	12.30	5.93	4.00
market_name	5	1759	2.46	1.19	2.00	2.44	1.48	1.00
state	6	1759	3.37	1.40	3.00	3.46	1.48	1.00
brand	7	1759	31.00	0.00	31.00	31.00	0.00	31.00
parent	8	1759	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	1759	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1759	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1759	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1759	11.00	0.00	11.00	11.00	0.00	11.00
price	13	1759	0.22	0.04	0.21	0.21	0.04	0.13
quantity	14	1759	1857.98	2227.25	1220.53	1447.09	1080.82	13.00
puma	15	1759	2874.31	1205.76	2700.00	2842.84	1042.27	1300.00
sugar_price	16	1759	205.77	11.95	205.96	205.53	11.39	187.08
M	17	1759	61007.19	48369.73	48731.02	52746.88	28727.78	4042.54
segment	18	1759	3.00	0.00	3.00	3.00	0.00	3.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.15	-1.24	0.03
month	10.00	9.00	-0.27	-1.12	0.08
store_id	1187.00	1079.00	-0.18	-1.06	7.21
week_id	19.00	15.00	-0.10	-1.12	0.11
market_name	4.00	3.00	0.05	-1.52	0.03
state	5.00	4.00	-0.48	-0.90	0.03
brand	31.00	0.00	NaN	NaN	0.00
parent	4.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	1.00	0.00	NaN	NaN	0.00
fiber	0.00	0.00	NaN	NaN	0.00

sugars	11.00	0.00	NaN	NaN	0.00
price	0.34	0.21	0.49	-0.09	0.00
quantity	26470.33	26457.33	4.28	28.94	53.10
puma	4702.00	3402.00	0.13	-1.08	28.75
sugar_price	227.51	40.43	0.08	-1.02	0.29
M	417883.00	413840.46	2.50	8.74	1153.30
segment	3.00	0.00	NaN	NaN	0.00

group: POST HONEYCOMB

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1574	2009.68	1.07	2010.00	2009.73	1.48	2008.00
month	2	1574	6.18	3.06	7.00	6.35	4.45	1.00
store_id	3	1574	712.51	302.32	737.00	723.12	364.72	108.00
week_id	4	1574	12.46	4.39	13.00	12.57	5.93	4.00
market_name	5	1574	2.42	1.18	2.00	2.40	1.48	1.00
state	6	1574	3.33	1.39	3.00	3.42	1.48	1.00
brand	7	1574	32.00	0.00	32.00	32.00	0.00	32.00
parent	8	1574	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	1574	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1574	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1574	1.00	0.00	1.00	1.00	0.00	1.00
sugars	12	1574	11.00	0.00	11.00	11.00	0.00	11.00
price	13	1574	0.24	0.05	0.24	0.24	0.06	0.09
quantity	14	1574	221.29	340.00	150.01	168.75	114.91	14.50
puma	15	1574	2906.13	1194.77	2700.00	2882.49	1042.27	1300.00
sugar_price	16	1574	205.32	11.99	201.87	205.04	16.29	187.08
M	17	1574	63655.62	49654.77	50645.27	55203.59	29589.17	4042.54
segment	18	1574	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.20	-1.22	0.03		
month		10.00	9.00	-0.30	-1.04	0.08		
store_id		1187.00	1079.00	-0.23	-1.04	7.62		
week_id		19.00	15.00	-0.15	-1.10	0.11		
market_name		4.00	3.00	0.09	-1.50	0.03		
state		5.00	4.00	-0.46	-0.91	0.04		
brand		32.00	0.00	NaN	NaN	0.00		
parent		4.00	0.00	NaN	NaN	0.00		
flavored		1.00	0.00	NaN	NaN	0.00		
fortified		1.00	0.00	NaN	NaN	0.00		
fiber		1.00	0.00	NaN	NaN	0.00		
sugars		11.00	0.00	NaN	NaN	0.00		
price		0.35	0.26	0.04	-0.47	0.00		
quantity		6375.41	6360.91	10.03	151.60	8.57		

puma	4702.00	3402.00	0.10	-1.05	30.11
sugar_price	227.51	40.43	0.11	-1.06	0.30
M	417883.00	413840.46	2.43	8.17	1251.58
segment	3.00	0.00	NaN	NaN	0.00

group: POST RAISIN BRAN

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1607	2009.68	1.07	2010.00	2009.73	1.48	2008.00
month	2	1607	6.07	3.10	7.00	6.21	4.45	1.00
store_id	3	1607	714.70	301.71	742.00	725.06	366.20	108.00
week_id	4	1607	12.42	4.42	13.00	12.51	5.93	4.00
market_name	5	1607	2.37	1.18	2.00	2.34	1.48	1.00
state	6	1607	3.33	1.36	3.00	3.41	1.48	1.00
brand	7	1607	33.00	0.00	33.00	33.00	0.00	33.00
parent	8	1607	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	1607	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1607	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1607	4.51	0.00	4.51	4.51	0.00	4.51
sugars	12	1607	10.53	0.00	10.53	10.53	0.00	10.53
price	13	1607	0.16	0.03	0.16	0.16	0.03	0.05
quantity	14	1607	216.24	239.81	155.00	176.18	140.85	20.00
puma	15	1607	2938.19	1185.11	2700.00	2922.57	1042.27	1300.00
sugar_price	16	1607	205.33	12.01	201.87	204.97	14.90	187.08
M	17	1607	64427.83	49371.95	51392.84	55903.86	28645.02	4238.01
segment	18	1607	3.00	0.00	3.00	3.00	0.00	3.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.22	-1.22	0.03
month	10.00	9.00	-0.26	-1.08	0.08
store_id	1184.00	1076.00	-0.23	-1.05	7.53
week_id	19.00	15.00	-0.13	-1.14	0.11
market_name	4.00	3.00	0.14	-1.49	0.03
state	5.00	4.00	-0.46	-0.82	0.03
brand	33.00	0.00	NaN	NaN	0.00
parent	4.00	0.00	NaN	NaN	0.00
flavored	1.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00
fiber	4.51	0.00	Inf	NaN	0.00
sugars	10.53	0.00	-Inf	NaN	0.00
price	0.25	0.20	0.32	-0.27	0.00
quantity	2680.00	2660.00	4.39	31.33	5.98
puma	4702.00	3402.00	0.09	-1.02	29.56
sugar_price	227.51	40.43	0.15	-1.00	0.30
M	417883.00	413644.99	2.44	8.12	1231.61

segment	3.00	0.00	NaN	NaN	0.00
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group: POST SELECTS GREAT GRAINS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1646	2009.67	1.07	2010.00	2009.71	1.48	2008.00
month	2	1646	5.98	3.14	7.00	6.11	4.45	1.00
store_id	3	1646	710.29	299.07	730.00	719.76	364.72	108.00
week_id	4	1646	12.34	4.40	12.00	12.42	5.19	4.00
market_name	5	1646	2.45	1.19	2.00	2.44	1.48	1.00
state	6	1646	3.36	1.40	3.00	3.44	1.48	1.00
brand	7	1646	34.00	0.00	34.00	34.00	0.00	34.00
parent	8	1646	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	1646	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1646	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1646	3.00	0.00	3.00	3.00	0.00	3.00
sugars	12	1646	4.00	0.00	4.00	4.00	0.00	4.00
price	13	1646	0.23	0.04	0.23	0.23	0.04	0.13
quantity	14	1646	309.08	329.70	208.00	247.87	189.77	16.00
puma	15	1646	2889.50	1204.55	2700.00	2861.76	1042.27	1300.00
sugar_price	16	1646	205.63	11.96	205.96	205.34	11.39	187.08
M	17	1646	63139.07	49614.41	49813.10	54466.80	28709.67	4042.54
segment	18	1646	1.00	0.00	1.00	1.00	0.00	1.00

	max	range	skew	kurtosis	se
year	2011.00	3.00	-0.19	-1.21	0.03
month	10.00	9.00	-0.25	-1.12	0.08
store_id	1187.00	1079.00	-0.21	-1.03	7.37
week_id	19.00	15.00	-0.12	-1.09	0.11
market_name	4.00	3.00	0.06	-1.51	0.03
state	5.00	4.00	-0.48	-0.92	0.03
brand	34.00	0.00	NaN	NaN	0.00
parent	4.00	0.00	NaN	NaN	0.00
flavored	0.00	0.00	NaN	NaN	0.00
fortified	0.00	0.00	NaN	NaN	0.00
fiber	3.00	0.00	NaN	NaN	0.00
sugars	4.00	0.00	NaN	NaN	0.00
price	0.31	0.19	0.14	-0.65	0.00
quantity	2768.00	2752.00	2.83	11.57	8.13
puma	4702.00	3402.00	0.11	-1.08	29.69
sugar_price	227.51	40.43	0.11	-1.01	0.29
M	417883.00	413840.46	2.45	8.12	1222.91
segment	1.00	0.00	NaN	NaN	0.00

group: QUAKER 100% NATURAL

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1434	2009.58	1.08	2010.00	2009.60	1.48	2008.00
month	2	1434	6.02	3.11	7.00	6.15	4.45	1.00
store_id	3	1434	681.90	303.59	690.50	687.24	362.50	108.00
week_id	4	1434	12.01	4.45	12.00	12.06	4.45	4.00
market_name	5	1434	2.42	1.28	2.00	2.40	1.48	1.00
state	6	1434	3.41	1.43	3.00	3.51	2.97	1.00
brand	7	1434	35.00	0.00	35.00	35.00	0.00	35.00
parent	8	1434	3.00	0.00	3.00	3.00	0.00	3.00
flavored	9	1434	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1434	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1434	2.00	0.00	2.00	2.00	0.00	2.00
sugars	12	1434	8.00	0.00	8.00	8.00	0.00	8.00
price	13	1434	0.19	0.03	0.19	0.19	0.03	0.07
quantity	14	1434	306.45	252.40	240.50	269.52	197.33	14.00
puma	15	1434	2583.85	1088.06	2700.00	2479.93	1042.27	1300.00
sugar_price	16	1434	205.93	11.90	205.96	205.78	11.39	187.08
M	17	1434	58419.78	45863.92	47514.10	50485.65	26942.51	4238.01
segment	18	1434	1.00	0.00	1.00	1.00	0.00	1.00
	max	range	skew	kurtosis	se			
year	2011.00	3.00	-0.10	-1.27	0.03			
month	10.00	9.00	-0.24	-1.11	0.08			
store_id	1184.00	1076.00	-0.12	-1.10	8.02			
week_id	19.00	15.00	-0.08	-1.12	0.12			
market_name	4.00	3.00	0.14	-1.67	0.03			
state	5.00	4.00	-0.42	-0.97	0.04			
brand	35.00	0.00	NaN	NaN	0.00			
parent	3.00	0.00	NaN	NaN	0.00			
flavored	1.00	0.00	NaN	NaN	0.00			
fortified	0.00	0.00	NaN	NaN	0.00			
fiber	2.00	0.00	NaN	NaN	0.00			
sugars	8.00	0.00	NaN	NaN	0.00			
price	0.25	0.18	-0.27	-0.15	0.00			
quantity	1876.00	1862.00	1.80	4.90	6.67			
puma	4702.00	3402.00	0.34	-0.70	28.73			
sugar_price	227.51	40.43	0.02	-1.04	0.31			
M	373146.70	368908.69	2.53	8.43	1211.15			
segment	1.00	0.00	NaN	NaN	0.00			

group: QUAKER CAP N CRUNCH

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1684	2009.59	1.08	2010.00	2009.61	1.48	2008.00
month	2	1684	6.02	3.12	7.00	6.15	4.45	1.00

store_id	3	1684	689.22	303.24	696.50	695.17	355.08	108.00
week_id	4	1684	12.03	4.42	12.00	12.06	5.93	4.00
market_name	5	1684	2.41	1.18	2.00	2.39	1.48	1.00
state	6	1684	3.33	1.39	3.00	3.41	1.48	1.00
brand	7	1684	36.00	0.00	36.00	36.00	0.00	36.00
parent	8	1684	3.00	0.00	3.00	3.00	0.00	3.00
flavored	9	1684	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1684	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1684	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1684	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1684	0.20	0.04	0.19	0.20	0.05	0.11
quantity	14	1684	256.36	388.97	162.00	192.09	139.36	14.00
puma	15	1684	2907.22	1191.18	2700.00	2883.85	1042.27	1300.00
sugar_price	16	1684	205.98	11.95	205.96	205.77	11.39	187.08
M	17	1684	62480.21	48608.83	49643.66	54014.95	28541.46	4238.01
segment	18	1684	3.00	0.00	3.00	3.00	0.00	3.00
			max	range	skew	kurtosis		se
year		2011.00	3.00	-0.10	-1.27		0.03	
month		10.00	9.00	-0.26	-1.10		0.08	
store_id		1187.00	1079.00	-0.14	-1.09		7.39	
week_id		19.00	15.00	-0.04	-1.14		0.11	
market_name		4.00	3.00	0.10	-1.50		0.03	
state		5.00	4.00	-0.45	-0.90		0.03	
brand		36.00	0.00	NaN	NaN		0.00	
parent		3.00	0.00	NaN	NaN		0.00	
flavored		0.00	0.00	NaN	NaN		0.00	
fortified		0.00	0.00	NaN	NaN		0.00	
fiber		0.00	0.00	NaN	NaN		0.00	
sugars		12.00	0.00	NaN	NaN		0.00	
price		0.31	0.21	0.32	-0.69		0.00	
quantity		6806.00	6792.00	8.32	103.09		9.48	
puma		4702.00	3402.00	0.10	-1.04		29.03	
sugar_price		227.51	40.43	0.06	-1.01		0.29	
M		417883.00	413644.99	2.46	8.34		1184.52	
segment		3.00	0.00	NaN	NaN		0.00	

group: QUAKER CAP N CRUNCH CRUNCH BE

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1672	2009.60	1.08	2010.00	2009.63	1.48	2008.00
month	2	1672	6.12	3.09	7.00	6.28	4.45	1.00
store_id	3	1672	692.09	302.27	712.50	698.58	350.63	108.00
week_id	4	1672	12.11	4.41	12.00	12.15	4.45	4.00
market_name	5	1672	2.40	1.19	2.00	2.37	1.48	1.00

state	6	1672	3.32	1.39	3.00	3.40	1.48	1.00
brand	7	1672	37.00	0.00	37.00	37.00	0.00	37.00
parent	8	1672	3.00	0.00	3.00	3.00	0.00	3.00
flavored	9	1672	1.00	0.00	1.00	1.00	0.00	1.00
fortified	10	1672	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1672	0.00	0.00	0.00	0.00	0.00	0.00
sugars	12	1672	12.00	0.00	12.00	12.00	0.00	12.00
price	13	1672	0.21	0.04	0.21	0.21	0.05	0.12
quantity	14	1672	257.45	357.60	162.00	194.07	128.99	13.00
puma	15	1672	2881.47	1179.45	2700.00	2851.63	1042.27	1300.00
sugar_price	16	1672	205.66	11.94	205.96	205.42	11.39	187.08
M	17	1672	61820.09	48957.09	49091.96	53262.27	28704.49	4042.54
segment	18	1672	3.00	0.00	3.00	3.00	0.00	3.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.12	-1.25	0.03		
month		10.00	9.00	-0.30	-1.06	0.08		
store_id		1187.00	1079.00	-0.15	-1.08	7.39		
week_id		19.00	15.00	-0.07	-1.12	0.11		
market_name		4.00	3.00	0.13	-1.51	0.03		
state		5.00	4.00	-0.44	-0.92	0.03		
brand		37.00	0.00	NaN	NaN	0.00		
parent		3.00	0.00	NaN	NaN	0.00		
flavored		1.00	0.00	NaN	NaN	0.00		
fortified		0.00	0.00	NaN	NaN	0.00		
fiber		0.00	0.00	NaN	NaN	0.00		
sugars		12.00	0.00	NaN	NaN	0.00		
price		0.32	0.21	0.38	-0.51	0.00		
quantity		5391.32	5378.32	6.53	65.70	8.75		
puma		4702.00	3402.00	0.12	-1.00	28.84		
sugar_price		227.51	40.43	0.06	-1.04	0.29		
M		417883.00	413840.46	2.50	8.58	1197.28		
segment		3.00	0.00	NaN	NaN	0.00		

group: QUAKER LIFE

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1777	2009.61	1.08	2010.00	2009.64	1.48	2008.00
month	2	1777	6.03	3.11	7.00	6.16	4.45	1.00
store_id	3	1777	692.66	303.68	712.00	699.29	358.79	108.00
week_id	4	1777	12.11	4.43	12.00	12.16	5.93	4.00
market_name	5	1777	2.42	1.20	2.00	2.40	1.48	1.00
state	6	1777	3.36	1.39	3.00	3.45	1.48	1.00
brand	7	1777	38.00	0.00	38.00	38.00	0.00	38.00
parent	8	1777	3.00	0.00	3.00	3.00	0.00	3.00

flavored	9	1777	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1777	1.00	0.00	1.00	1.00	0.00	1.00
fiber	11	1777	2.00	0.00	2.00	2.00	0.00	2.00
sugars	12	1777	6.00	0.00	6.00	6.00	0.00	6.00
price	13	1777	0.20	0.04	0.20	0.20	0.04	0.11
quantity	14	1777	405.08	393.21	294.00	335.19	256.49	13.00
puma	15	1777	2846.46	1185.37	2700.00	2808.02	1042.27	1300.00
sugar_price	16	1777	205.90	11.92	205.96	205.69	11.39	187.08
M	17	1777	61263.57	48644.93	48830.96	52857.14	28463.61	4042.54
segment	18	1777	1.00	0.00	1.00	1.00	0.00	1.00
		max	range	skew	kurtosis	se		
year	2011.00		3.00	-0.12	-1.26	0.03		
month	10.00		9.00	-0.25	-1.10	0.07		
store_id	1187.00		1079.00	-0.15	-1.09	7.20		
week_id	19.00		15.00	-0.07	-1.14	0.11		
market_name	4.00		3.00	0.10	-1.54	0.03		
state	5.00		4.00	-0.46	-0.89	0.03		
brand	38.00		0.00	NaN	NaN	0.00		
parent	3.00		0.00	NaN	NaN	0.00		
flavored	0.00		0.00	NaN	NaN	0.00		
fortified	1.00		0.00	NaN	NaN	0.00		
fiber	2.00		0.00	NaN	NaN	0.00		
sugars	6.00		0.00	NaN	NaN	0.00		
price	0.32		0.21	0.08	-0.42	0.00		
quantity	3744.00		3731.00	2.39	8.62	9.33		
puma	4702.00		3402.00	0.16	-1.01	28.12		
sugar_price	227.51		40.43	0.06	-1.02	0.28		
M	417883.00		413840.46	2.49	8.55	1153.97		
segment	1.00		0.00	NaN	NaN	0.00		

group: QUAKER OATMEAL SQUARES

	vars	n	mean	sd	median	trimmed	mad	min
year	1	1555	2009.57	1.06	2010.00	2009.59	1.48	2008.00
month	2	1555	5.99	3.13	7.00	6.12	4.45	1.00
store_id	3	1555	683.11	297.82	685.00	688.67	346.93	108.00
week_id	4	1555	11.94	4.35	12.00	11.97	4.45	4.00
market_name	5	1555	2.39	1.23	2.00	2.36	1.48	1.00
state	6	1555	3.35	1.39	3.00	3.44	1.48	1.00
brand	7	1555	39.00	0.00	39.00	39.00	0.00	39.00
parent	8	1555	3.00	0.00	3.00	3.00	0.00	3.00
flavored	9	1555	0.00	0.00	0.00	0.00	0.00	0.00
fortified	10	1555	0.00	0.00	0.00	0.00	0.00	0.00
fiber	11	1555	2.70	0.00	2.70	2.70	0.00	2.70

sugars	12	1555	6.58	0.00	6.58	6.58	0.00	6.58
price	13	1555	0.24	0.05	0.25	0.24	0.05	0.11
quantity	14	1555	287.25	315.86	208.00	229.77	189.77	16.00
puma	15	1555	2763.43	1144.93	2700.00	2704.28	1042.27	1300.00
sugar_price	16	1555	205.90	12.15	205.96	205.71	11.39	187.08
M	17	1555	63730.54	50625.74	50243.40	54783.26	29847.79	4238.01
segment	18	1555	1.00	0.00	1.00	1.00	0.00	1.00
		max	range	skew	kurtosis		se	
year	2011.00	3.00	-0.09	-1.22	0.03			
month	10.00	9.00	-0.22	-1.13	0.08			
store_id	1184.00	1076.00	-0.14	-1.06	7.55			
week_id	19.00	15.00	-0.05	-1.08	0.11			
market_name	4.00	3.00	0.16	-1.57	0.03			
state	5.00	4.00	-0.42	-0.91	0.04			
brand	39.00	0.00	NaN	NaN	0.00			
parent	3.00	0.00	NaN	NaN	0.00			
flavored	0.00	0.00	NaN	NaN	0.00			
fortified	0.00	0.00	NaN	NaN	0.00			
fiber	2.70	0.00	Inf	NaN	0.00			
sugars	6.58	0.00	-Inf	NaN	0.00			
price	0.35	0.24	-0.43	-0.36	0.00			
quantity	3608.00	3592.00	3.44	19.83	8.01			
puma	4702.00	3402.00	0.22	-0.88	29.03			
sugar_price	227.51	40.43	0.03	-1.08	0.31			
M	417883.00	413644.99	2.40	7.72	1283.83			
segment	1.00	0.00	NaN	NaN	0.00			

3 - Descriptive Statistics by Parent

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describeBy(df, df$parent)
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Descriptive statistics by group

group: GENERAL MILLS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	23094	2009.63	1.07	2010.00	2009.66	1.48	2008.00
month	2	23094	6.00	3.12	7.00	6.12	4.45	1.00
store_id	3	23094	699.97	300.96	716.00	707.82	352.86	108.00
week_id	4	23094	12.19	4.40	12.00	12.24	4.45	4.00
market_name	5	23094	2.45	1.19	2.00	2.43	1.48	1.00

state	6	23094	3.34	1.41	3.00	3.43	1.48	1.00
brand	7	23094	7.45	4.00	7.00	7.43	4.45	1.00
parent	8	23094	1.00	0.00	1.00	1.00	0.00	1.00
flavored	9	23094	0.73	0.45	1.00	0.78	0.00	0.00
fortified	10	23094	0.64	0.48	1.00	0.67	0.00	0.00
fiber	11	23094	1.08	1.16	0.00	0.98	0.00	0.00
sugars	12	23094	8.23	3.80	9.00	8.48	4.45	1.00
price	13	23094	0.26	0.05	0.26	0.26	0.05	0.06
quantity	14	23094	400.56	625.24	196.76	270.60	204.09	8.70
puma	15	23094	2871.66	1196.18	2700.00	2839.33	1042.27	1300.00
sugar_price	16	23094	205.83	12.04	205.96	205.61	11.39	187.08
M	17	23094	62366.86	49346.47	49295.44	53753.55	28694.58	4042.54
segment	18	23094	2.22	0.77	2.00	2.27	1.48	1.00
		max	range	skew	kurtosis	se		
year	2011.00	3.00	-0.15	-1.23	0.01			
month	10.00	9.00	-0.24	-1.11	0.02			
store_id	1187.00	1079.00	-0.17	-1.05	1.98			
week_id	19.00	15.00	-0.08	-1.12	0.03			
market_name	4.00	3.00	0.07	-1.51	0.01			
state	5.00	4.00	-0.45	-0.96	0.01			
brand	14.00	13.00	0.03	-1.19	0.03			
parent	1.00	0.00	NaN	NaN	0.00			
flavored	1.00	1.00	-1.01	-0.97	0.00			
fortified	1.00	1.00	-0.57	-1.68	0.00			
fiber	3.00	3.00	0.35	-1.54	0.01			
sugars	13.00	12.00	-0.50	-0.97	0.03			
price	0.45	0.39	0.51	0.15	0.00			
quantity	10859.25	10850.55	4.82	36.52	4.11			
puma	4702.00	3402.00	0.12	-1.06	7.87			
sugar_price	227.51	40.43	0.08	-1.03	0.08			
M	417883.00	413840.46	2.46	8.26	324.72			
segment	3.00	2.00	-0.39	-1.21	0.01			

group: KELLOGGS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	21271	2009.64	1.09	2010.00	2009.67	1.48	2008.00
month	2	21271	5.96	3.15	7.00	6.07	4.45	1.00
store_id	3	21271	701.55	306.76	725.00	710.27	376.58	108.00
week_id	4	21271	12.20	4.48	12.00	12.27	5.93	4.00
market_name	5	21271	2.42	1.18	2.00	2.40	1.48	1.00
state	6	21271	3.33	1.39	3.00	3.42	1.48	1.00
brand	7	21271	21.07	3.69	21.00	21.08	4.45	15.00
parent	8	21271	2.00	0.00	2.00	2.00	0.00	2.00

flavored	9	21271	0.61	0.49	1.00	0.63	0.00	0.00
fortified	10	21271	0.38	0.48	0.00	0.35	0.00	0.00
fiber	11	21271	1.37	1.26	1.00	1.24	0.00	0.00
sugars	12	21271	7.74	4.29	9.02	7.68	5.90	2.00
price	13	21271	0.22	0.05	0.22	0.22	0.05	0.09
quantity	14	21271	479.21	590.86	297.01	365.62	284.68	5.70
puma	15	21271	2913.47	1196.51	2700.00	2891.59	1042.27	1300.00
sugar_price	16	21271	205.63	11.79	205.96	205.34	10.24	187.08
M	17	21271	62508.44	49221.10	49623.83	53929.38	28565.65	4042.54
segment	18	21271	2.17	0.86	2.00	2.21	1.48	1.00
		max	range	skew	kurtosis	se		
year	2011.00	3.00	-0.17	-1.27	0.01			
month	10.00	9.00	-0.22	-1.15	0.02			
store_id	1187.00	1079.00	-0.19	-1.09	2.10			
week_id	19.00	15.00	-0.10	-1.16	0.03			
market_name	4.00	3.00	0.09	-1.49	0.01			
state	5.00	4.00	-0.46	-0.90	0.01			
brand	27.00	12.00	-0.02	-1.19	0.03			
parent	2.00	0.00	NaN	NaN	0.00			
flavored	1.00	1.00	-0.44	-1.81	0.00			
fortified	1.00	1.00	0.50	-1.75	0.00			
fiber	3.76	3.76	0.94	-0.46	0.01			
sugars	14.00	12.00	-0.04	-1.60	0.03			
price	0.49	0.40	0.53	0.58	0.00			
quantity	11025.08	11019.38	4.07	30.03	4.05			
puma	4702.00	3402.00	0.09	-1.06	8.20			
sugar_price	227.51	40.43	0.11	-0.95	0.08			
M	417883.00	413840.46	2.46	8.20	337.49			
segment	3.00	2.00	-0.33	-1.57	0.01			

group: PEPSICO INC

	vars	n	mean	sd	median	trimmed	mad	min
year	1	8122	2009.59	1.08	2010.00	2009.61	1.48	2008.00
month	2	8122	6.04	3.11	7.00	6.17	4.45	1.00
store_id	3	8122	688.10	302.13	704.00	694.14	355.82	108.00
week_id	4	8122	12.04	4.41	12.00	12.08	4.45	4.00
market_name	5	8122	2.41	1.22	2.00	2.39	1.48	1.00
state	6	8122	3.35	1.40	3.00	3.44	1.48	1.00
brand	7	8122	37.04	1.38	37.00	37.05	1.48	35.00
parent	8	8122	3.00	0.00	3.00	3.00	0.00	3.00
flavored	9	8122	0.38	0.49	0.00	0.35	0.00	0.00
fortified	10	8122	0.22	0.41	0.00	0.15	0.00	0.00
fiber	11	8122	1.31	1.13	2.00	1.30	1.04	0.00

sugars	12	8122	8.94	2.64	8.00	8.93	2.97	6.00
price	13	8122	0.21	0.04	0.20	0.21	0.05	0.07
quantity	14	8122	303.88	353.58	206.00	241.80	183.84	13.00
puma	15	8122	2804.00	1166.21	2700.00	2754.77	1042.27	1300.00
sugar_price	16	8122	205.87	11.97	205.96	205.67	11.39	187.08
M	17	8122	61600.61	48629.26	49099.89	53094.48	28404.14	4042.54
segment	18	8122	1.83	0.98	1.00	1.78	0.00	1.00
			max	range	skew	kurtosis		se
year		2011.00	3.00	-0.11	-1.25	0.01		
month		10.00	9.00	-0.25	-1.10	0.03		
store_id		1187.00	1079.00	-0.14	-1.08	3.35		
week_id		19.00	15.00	-0.06	-1.12	0.05		
market_name		4.00	3.00	0.13	-1.55	0.01		
state		5.00	4.00	-0.44	-0.92	0.02		
brand		39.00	4.00	-0.04	-1.25	0.02		
parent		3.00	0.00	NaN	NaN	0.00		
flavored		1.00	1.00	0.48	-1.77	0.01		
fortified		1.00	1.00	1.36	-0.15	0.00		
fiber		2.70	2.70	-0.19	-1.74	0.01		
sugars		12.00	6.00	0.19	-1.80	0.03		
price		0.35	0.28	0.34	-0.35	0.00		
quantity		6806.00	6793.00	5.03	50.00	3.92		
puma		4702.00	3402.00	0.19	-0.95	12.94		
sugar_price		227.51	40.43	0.05	-1.03	0.13		
M		417883.00	413840.46	2.48	8.36	539.59		
segment		3.00	2.00	0.35	-1.88	0.01		

group: RALCORP HOLDINGS

	vars	n	mean	sd	median	trimmed	mad	min
year	1	11479	2009.66	1.08	2010.00	2009.70	1.48	2008.00
month	2	11479	6.08	3.12	7.00	6.23	4.45	1.00
store_id	3	11479	707.34	302.96	729.00	716.81	369.17	108.00
week_id	4	11479	12.33	4.43	12.00	12.42	5.93	4.00
market_name	5	11479	2.44	1.19	2.00	2.42	1.48	1.00
state	6	11479	3.35	1.40	3.00	3.44	1.48	1.00
brand	7	11479	31.00	1.99	31.00	31.00	2.97	28.00
parent	8	11479	4.00	0.00	4.00	4.00	0.00	4.00
flavored	9	11479	0.71	0.45	1.00	0.76	0.00	0.00
fortified	10	11479	0.57	0.49	1.00	0.59	0.00	0.00
fiber	11	11479	1.64	1.71	1.00	1.48	1.48	0.00
sugars	12	11479	9.05	3.58	11.00	9.43	1.48	3.00
price	13	11479	0.21	0.05	0.21	0.21	0.06	0.05
quantity	14	11479	574.92	1172.29	250.01	342.53	249.07	13.00

puma	15	11479	2886.51	1198.61	2700.00	2857.91	1042.27	1300.00
sugar_price	16	11479	205.59	11.92	205.96	205.32	11.39	187.08
M	17	11479	62299.22	48772.96	49597.63	53926.67	28721.54	4042.54
segment	18	11479	2.14	0.84	2.00	2.18	1.48	1.00
		max	range	skew	kurtosis	se		
year		2011.00	3.00	-0.18	-1.24	0.01		
month		10.00	9.00	-0.28	-1.09	0.03		
store_id		1187.00	1079.00	-0.20	-1.06	2.83		
week_id		19.00	15.00	-0.12	-1.12	0.04		
market_name		4.00	3.00	0.07	-1.51	0.01		
state		5.00	4.00	-0.47	-0.91	0.01		
brand		34.00	6.00	0.01	-1.23	0.02		
parent		4.00	0.00	NaN	NaN	0.00		
flavored		1.00	1.00	-0.93	-1.13	0.00		
fortified		1.00	1.00	-0.29	-1.92	0.00		
fiber		4.51	4.51	0.43	-1.38	0.02		
sugars		12.00	9.00	-0.89	-1.10	0.03		
price		0.37	0.32	0.20	-0.52	0.00		
quantity		26470.33	26457.33	8.42	116.03	10.94		
puma		4702.00	3402.00	0.12	-1.06	11.19		
sugar_price		227.51	40.43	0.10	-1.01	0.11		
M		417883.00	413840.46	2.47	8.39	455.23		
segment		3.00	2.00	-0.27	-1.52	0.01		