

# Data Analysis Report

## Task Result: 1

Task description: Compute the mean net profit for each company sector (irket\_ad) across all reporting periods.

Task steps:

1 - Group by column(s) **irket\_ad** and calculate **mean** of column(s) **net\_profit**

This task has an empty result.

*The dataset for task '1' was too large to display here. Please refer to '1.xlsx' included in the attached archive.*

## Task Result: 2

Task description: Show the average debt-to-equity ratio for each company (irketin\_kodu) for every fiscal year.

Task steps:

1 - Group by column(s) (**year\_extracted**, **irketin\_kodu**) and calculate **mean** of column(s) **debt\_to\_equity\_ratio**

This task has an empty result.

*The dataset for task '2' was too large to display here. Please refer to '2.xlsx' included in the attached archive.*

## Task Result: 3

Task description: Identify the five companies with the highest return on capital employed (ROCE) expressed as a percentage.

Task steps:

1 - Get the **top 5** entries, sorted by **roce\_percent**. Return column(s): (**irketin\_kodu**, **irket\_ad**, **roce\_percent**)

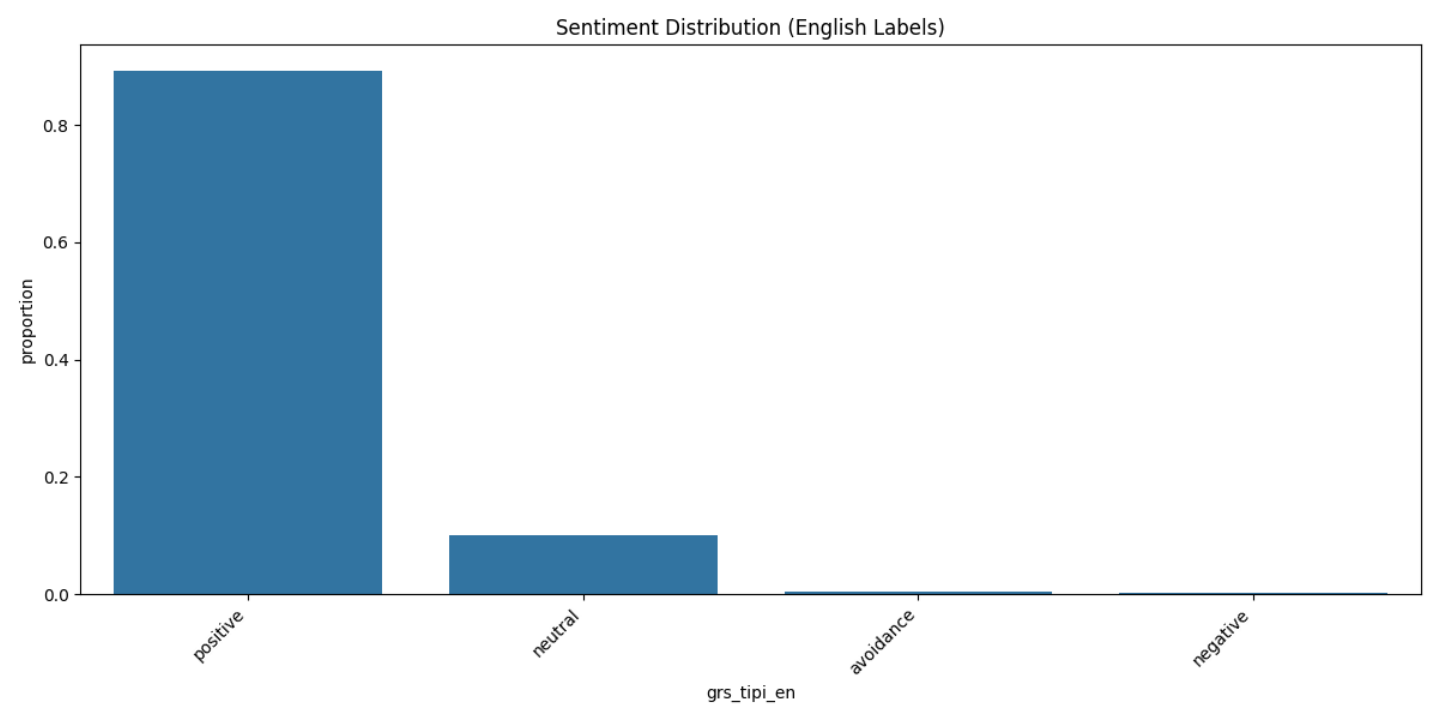
### Data Summary:

irketin_kodu	irket_ad	roce_percent
zedur	zedur enerj? elektr?k Ã¼ret?m a.?.	14220.593980000001

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irketin_kodu	irket_ad	roce_percent
yesil	ye??l yatırım hold?ng a.?	8775.094880999999
yesil	ye??l yatırım hold?ng a.?	8775.094880999999
zedur	zedur enerj? elektr?k Ã¼ret?m a.?	8222.321974
yesil	ye??l yatırım hold?ng a.?	7844.976234000001

## Task Result: 4



Task description: Calculate the proportion of each sentiment category after mapping Turkish labels to English (grs\_tipi\_en).

Task steps:

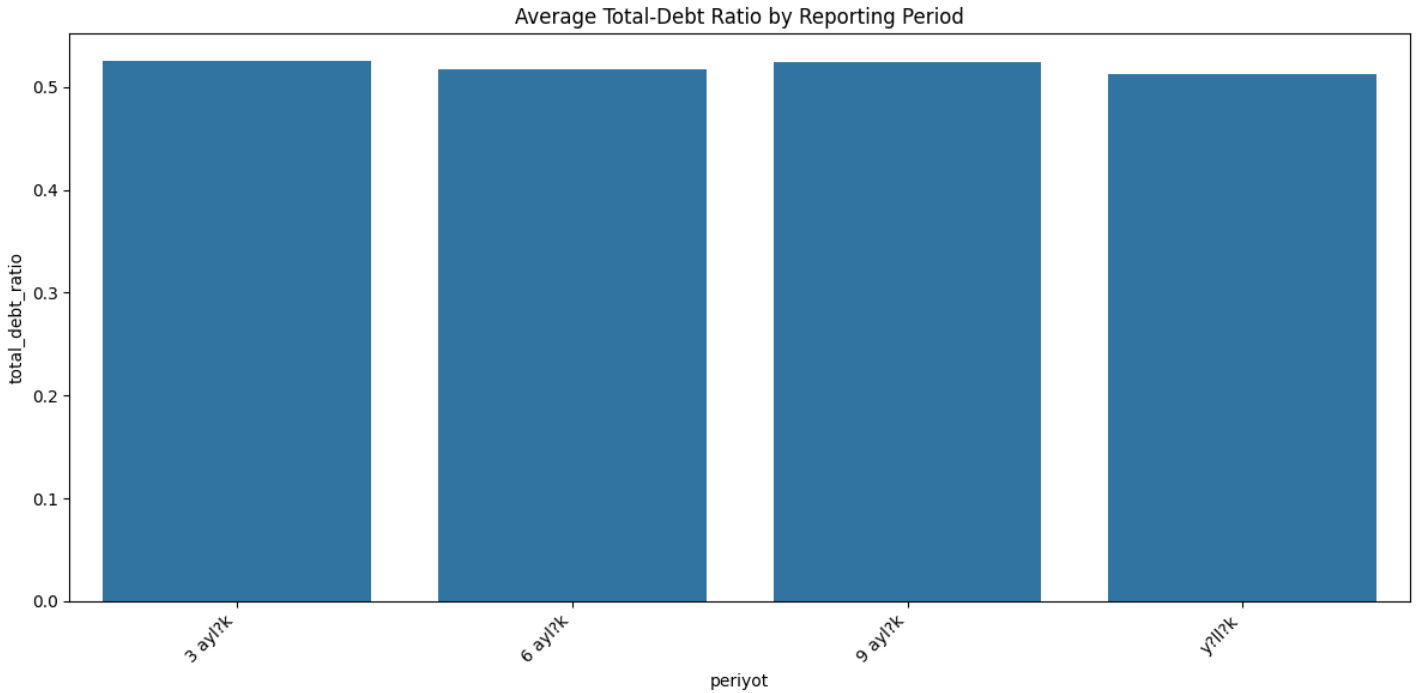
1 - Calculate the proportion/percentage of value(s) in column **grs\_tipi\_en**

### Data Summary:

grs_tipi_en	proportion
positive	0.8919949174078781
neutral	0.10080474375264718
avoidance	0.005082592121982211
negative	0.0021177467174925877

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## Task Result: 5



Task description: Determine the mean proportion of total debt over total assets for each reporting period length (periyot).

Task steps:

1 - Group by column(s) **periyot** and calculate **mean** of column(s) **total\_debt\_ratio**

### Data Summary:

periyot	total_debt_ratio
3 aylık	0.5254688190113954
6 aylık	0.5175818881064452
9 aylık	0.523727056609125
yıllık	0.5123838064268311

## Task Result: 6

Task description: Find companies that recorded a negative net profit and a debt-to-equity ratio above 0.5, then list the ten most leveraged.

Task steps:

1 - Filter column **net\_profit** where condition  $< []$

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2 - Filter column **debt\_to\_equity\_ratio** where condition  $> 0.5$

3 - Get the **top 10** entries, sorted by **debt\_to\_equity\_ratio**. Return column(s): (**irketin\_kodu**, **irket\_ad**, **net\_profit**, **debt\_to\_equity\_ratio**)

## Data Summary:

irketin_kodu	irket_ad	net_profit	debt_to_equity_ratio
vking	v?k?ng ka?it ve selÃ¼loz a.?	-31796.89121137494	554.8676706932208
sngyo	s?npa? gayr?menkul yatırım ortaklı?i a.?	-39775206.42496262	327.6053759058259
ygyo	ye??l gayr?menkul yatırım ortaklı?i a.?	-35690929.63011835	302.09860383992753
yyapi	ye??l yapi endÃ¼str?s? a.?	-151115.7554756873	298.5004562709194
yyapi	ye??l yapi endÃ¼str?s? a.?	-151115.7554756873	298.5004562709194
royal	royal hali ?pl?k tekst?l mob?lya sanay? ve t?caret a.?	-1083218.428329437	253.84288118172634
royal	royal hali ?pl?k tekst?l mob?lya sanay? ve t?caret a.?	-2411294.2435341543	146.68933872151453
vking	v?k?ng ka?it ve selÃ¼loz a.?	-333700.5476169792	119.03009695496925
royal	royal hali ?pl?k tekst?l mob?lya sanay? ve t?caret a.?	-4416151.752059698	113.84348629501619
rysas	reysa? ta?imacilik ve loj?st?k t?caret a.?	-1202337.7600656126	107.12436024747697

## Task Result: 7

Task description: Calculate the average Altman bankruptcy risk score for each fiscal year.

Task steps:

1 - Group by column(s) **year\_extracted** and calculate **mean** of column(s) **altman\_z\_skoru**

## Data Summary:

year_extracted	altman_z_skoru
1970.0	8.981259727356441

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## Task Result: 8

Task description: Compute the mean working capital (current assets minus current liabilities) for each company across all periods.

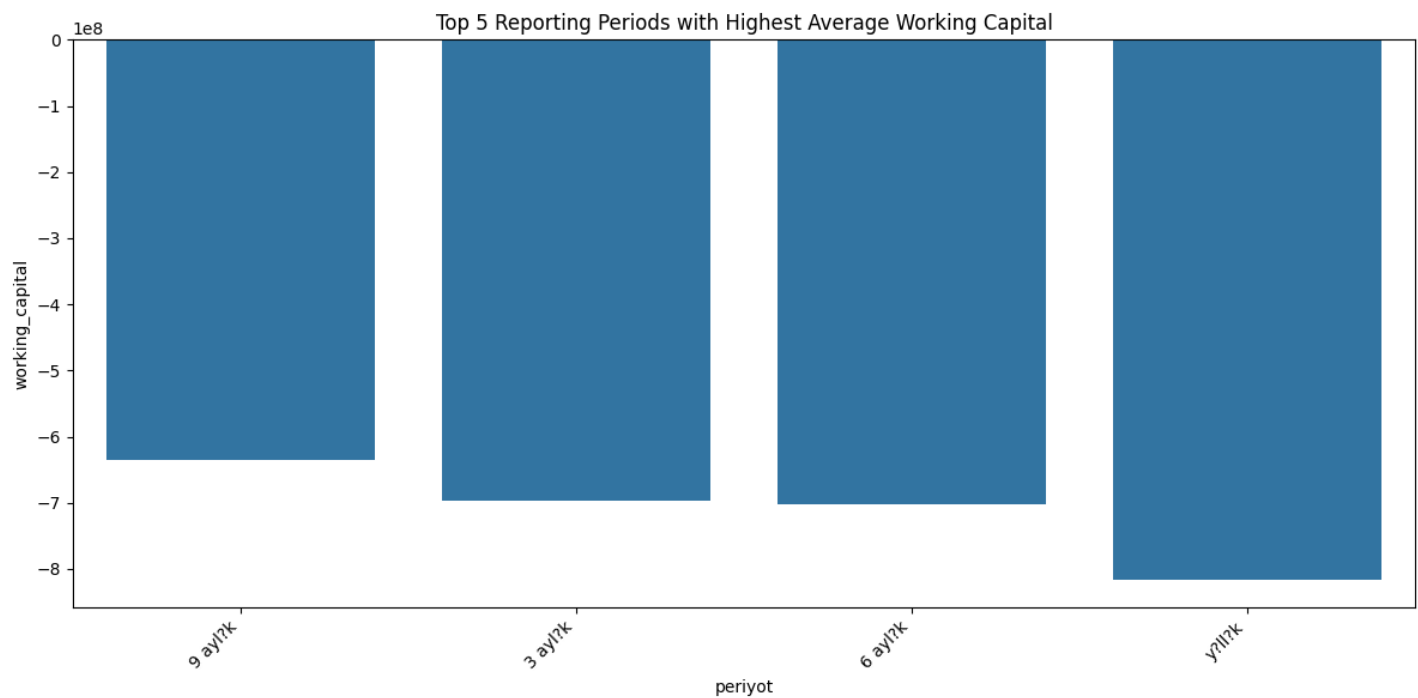
Task steps:

1 - Group by column(s) **irketin\_kodu** and calculate **mean** of column(s) **working\_capital**

This task has an empty result.

*The dataset for task '8' was too large to display here. Please refer to '8.xlsx' included in the attached archive.*

## Task Result: 9



Task description: Identify which reporting period lengths (periyot) have the largest average working capital.

Task steps:

- 1 - Group by column(s) **periyot** and calculate **mean** of column(s) **working\_capital**
- 2 - Get the **top 5** entries, sorted by **working\_capital**. Return column(s): (**periyot**, **working\_capital**)

### Data Summary:

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periyot	working_capital
9 ayl?k	-634908433.5862304
3 ayl?k	-696620227.1328338
6 ayl?k	-703200103.7792642
y?ll?k	-817109299.3557951

## Task Result: 10

Task description: Count how many companies reported a positive net profit margin (net\_kar\_marj) each year.

Task steps:

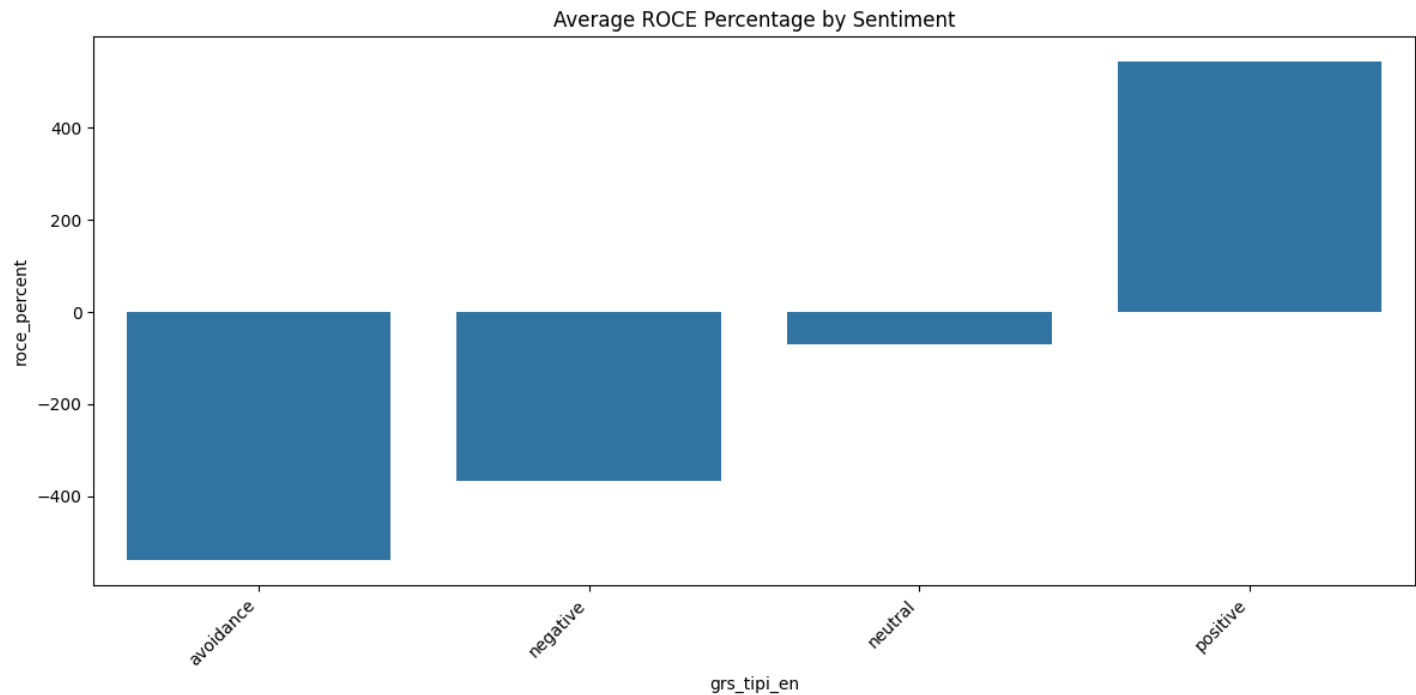
- 1 - Filter column **net\_kar\_marj** where condition **> []**
- 2 - Group by column(s) **year\_extracted** and calculate **count** of column(s) **irketin\_kodu**

### Data Summary:

year_extracted	irketin_kodu
1970	3459

## Task Result: 11

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Task description: Compare the average return on capital employed for each sentiment category (grs\_tipi\_en).

Task steps:

1 - Group by column(s) **grs\_tipi\_en** and calculate **mean** of column(s) **roce\_percent**

## Data Summary:

grs_tipi_en	roce_percent
avoidance	-538.3710704
negative	-365.76223474
neutral	-69.3362921432773
positive	542.6508107097342

## Task Result: 12

Task description: Select companies where debt?to?equity ratio exceeds 0.6 and ROCE is below 5%, then list the ten most leveraged.

Task steps:

- 1 - Filter column **debt\_to\_equity\_ratio** where condition **> 0.6**
- 2 - Filter column **roce\_percent** where condition **< 5**
- 3 - Get the **top 10** entries, sorted by **debt\_to\_equity\_ratio**. Return column(s): (**irketin\_kodu**, **irket\_ad**, **debt\_to\_equity\_ratio**, **roce\_percent**)

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## Data Summary:

irketin_kodu	irket_ad	debt_to_equity_ratio	roce_percent
royal	royal hali ?pl?k tekst?l mob?lya sanay? ve t?caret a.?.	253.84288118172634	-939.06815
royal	royal hali ?pl?k tekst?l mob?lya sanay? ve t?caret a.?.	146.68933872151453	-671.9312191
vking	v?k?ng ka?it ve selÃ¼loz a.?.	119.03009695496925	-388.048266
royal	royal hali ?pl?k tekst?l mob?lya sanay? ve t?caret a.?.	113.84348629501619	-917.9813811
vking	v?k?ng ka?it ve selÃ¼loz a.?.	68.7196695100122	-987.6773987
vking	v?k?ng ka?it ve selÃ¼loz a.?.	68.6789380145346	-677.3885637000001
tspor	trabzonspor sport?f yatırım ve futbol ??letmec?l??? t?caret a.?.	62.06230521991979	-343.6723207
tborg	tÃ¼rk tuborg b?ra ve malt sanay?? a.?.	60.31553187221651	-343.5491613
tborg	tÃ¼rk tuborg b?ra ve malt sanay?? a.?.	60.31553187221651	-343.5491613
tgsas	tgs di? t?caret a.?.	58.545742667699045	1.515625

## Task Result: 13

Task description: Calculate the share of companies whose net profit margin lies between -5% and +5%.

Task steps:

- 1 - Filter column **net\_kar\_marj** where condition **between** (-5, 5)
- 2 - Calculate the proportion/percentage of value(s) **1** in column **irketin\_kodu**

This task has an empty result.

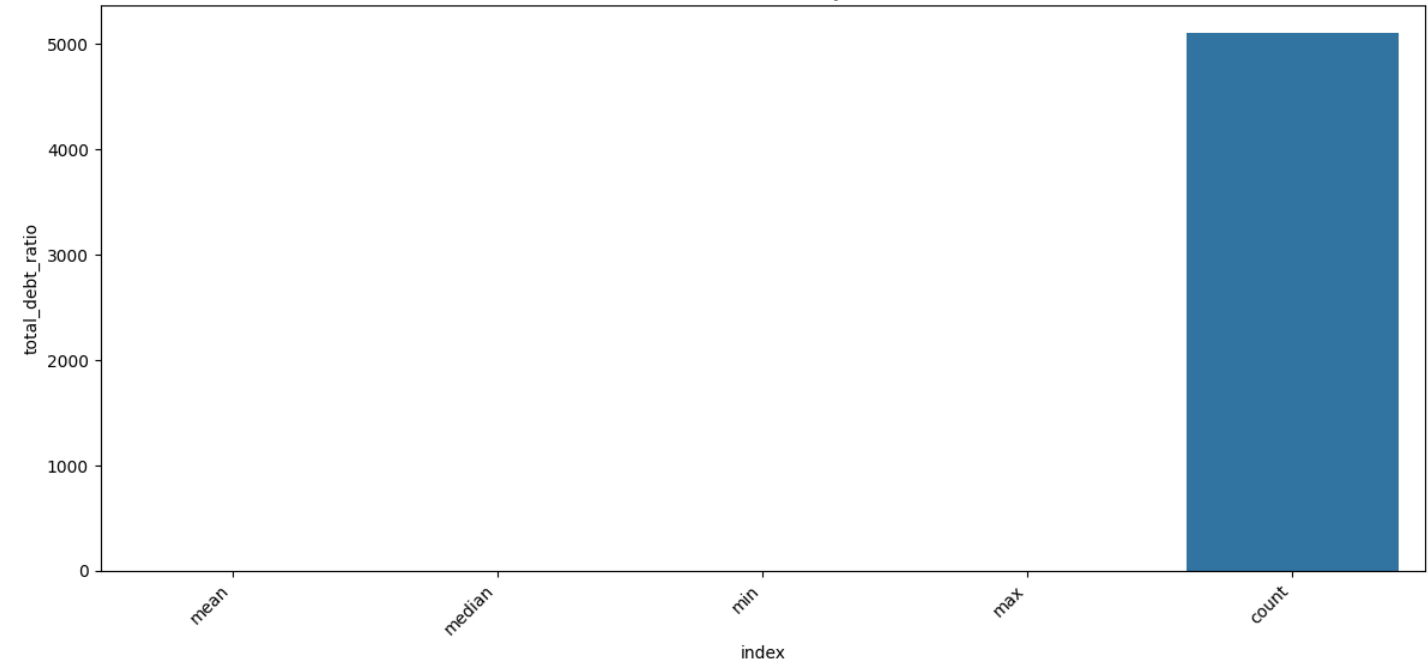
*The dataset for task '13' was too large to display here. Please refer to '13.xlsx' included in the attached archive.*

## Task Result: 14



# Data Analysis Report

Total Debt Ratio Summary Statistics



Task description: Provide basic descriptive statistics for the total debt?to?assets ratio across the whole dataset.

Task steps:

1 - Calculate the statistic ((mean, median, min, max, count)) for column **total\_debt\_ratio**

## Data Summary:

index	total_debt_ratio
mean	0.5192705228221627
median	0.5362811696612063
min	-0.04739586574003385
max	2.7473330964980396
count	5107.0

## Task Result: 15

Task description: Show how net profit varies across reporting periods (periyot) and sentiment categories (grs\_tipi\_en).

Task steps:

1 - Group by column(s) (**periyot, grs\_tipi\_en**) and calculate **mean** of column(s) **net\_profit**

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## Data Summary:

periyot	grs_tipi_en	net_profit
3 ayl?k	neutral	-1151969.5809817803
3 ayl?k	positive	58059871.618540786
6 ayl?k	avoidance	-59310552.79991187
6 ayl?k	negative	2861481.806873469
6 ayl?k	neutral	-283006854.29666436
6 ayl?k	positive	945049967.8996378
9 ayl?k	neutral	-806415.75977756
9 ayl?k	positive	29217644.85732116
y?ll?k	avoidance	-64444823.03682204
y?ll?k	negative	-37944251.41877962
y?ll?k	neutral	9395598895.865814
y?ll?k	positive	3537963602.9980507