In [2]:

import pandas as pd
import numpy as np

In [9]:

data=pd.read_csv("CEO_compensation_top50_2020.csv")
data

Out[9]:	ranking	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
	1	Pichai, Sundar	Alphabet Inc.	276932830	NaN	8274631	NaN	-29.0	30.0
1	1 2	Ianniello, Joseph	ViacomCBS Inc.	125433673	NaN	112927969	NaN	2.0	23.0
2	2 3	Testrow, lan	Emeco Holdings Limited	71302438	5862.0	18451964	1443.0	-7.0	25.0
3	3 4	Swan, Robert	Intel Corporation	66935100	326.0	12983400	31.0	-31.0	26.0
4	1 5	Su, Lisa	Advanced Micro Devices, Inc.	58534288	338.0	38870577	-15.0	-148.0	69.0
į	6	Wenig, Devin	eBay Inc.	57225870	215.0	75053893	196.0	-31.0	56.0
•	5 7	Dolan, James	The Madison Square Garden Company	54116491	367.0	9727834	63.0	-10.0	-17.0
7	7 8	Plant, John	Arconic Inc.	51712578	NaN	21771078	NaN	-84.0	121.0
8	9	Ermotti, Sergio	UBS Group AG	47710452	232.0	12032252	-3.0	-5.0	34.0
9	10	Iger, Robert	The Walt Disney Company	47517762	-28.0	67918815	3.0	-34.0	30.0
10	11	Silbermann, Benjamin	Pinterest, Inc.	46222113	NaN	32996177	NaN	NaN	NaN
11	I 12	Zaslav, David	Discovery Communications, Inc.	45843912	-65.0	50646901	51.0	-32.0	22.0
12	13	Maffei, Gregory	Liberty Media Corporation	44045070	119.0	152676239	1548.0	NaN	NaN
13	3 14	Patricio, Miguel	The Kraft Heinz Company	43297480	NaN	2551285	NaN	21.0	21.0
14	15	Nadella, Satya	Microsoft Corporation	42910215	66.0	191751389	450.0	-58.0	37.0
15	16	Gelsinger, Patrick	VMware, Inc.	42549725	81.0	81690281	132.0	-11.0	-21.0
16	5 17	Khosrowshahi, Dara	Uber Technologies, Inc.	42428233	-6.0	37069227	613.0	NaN	NaN
17	7 18	Schneider, David	Zalando SE	42216784	341.0	86609	-99.0	-101.0	150.0
18	3 19	Ritter, Rubin	Zalando SE	42216168	341.0	7604822	44.0	-101.0	150.0
19	20	Gentz, Robert	Zalando SE	42215267	341.0	85091	-99.0	-101.0	150.0
20	21	McDermott, William	ServiceNow, Inc.	41682335	NaN	1873259	NaN	-59.0	22.0
21	I 22	Narayen, Shantanu	Adobe Systems Incorporated	39145631	38.0	69396442	3.0	-46.0	17.0
22	2 23	Hastings, Wilmot	Netflix, Inc.	38577129	7.0	222643547	5377.0	-21.0	-19.0
23	3 24	Merlo, Larry	CVS Health Corporation	36451749	66.0	29294021	89.0	-17.0	24.0
24	1 25	Simon, Irwin	The Hain Celestial Group, Inc.	36373053	387.0	40864186	218.0	-64.0	126.0
25	5 26	Roberts, Brian	Comcast Corporation	36370183	4.0	144283880	204.0	-34.0	47.0
26	5 27	Umpleby, D.	Caterpillar Inc.	34519129	26.0	26294681	77.0	-20.0	37.0

	ranking	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
27	28	Wirth, Michael	Chevron Corporation	33070662	60.0	24485657	34.0	-15.0	25.0
28	29	Manley, Michael	Fiat Chrysler Automobiles N.V.	32595999	628.0	8153251	451.0	-21.0	36.0
29	30	Gabelli, Mario	GAMCO Investors, Inc.	32236004	202.0	43269324	306.0	-16.0	59.0
30	31	Niccol, Brian	Chipotle Mexican Grill, Inc.	32136288	-4.0	42205599	714.0	-94.0	44.0
31	32	Stephenson, Randall	AT&T Inc.	32032925	10.0	27727298	28.0	-46.0	68.0
32	33	Garland, Greg	Phillips 66	31900878	65.0	54470121	113.0	-34.0	46.0
33	34	Gorman, James	Morgan Stanley	31642395	12.0	23433106	21.0	-33.0	55.0
34	35	Dimon, James	JPMorgan Chase & Co.	31612616	5.0	107815980	494.0	-47.0	54.0
35	36	OʻSullivan, Michael	Burlington Stores, Inc.	31056597	NaN	769161	NaN	-40.0	8.0
36	37	Moghadam, Hamid	Prologis, Inc.	30383438	8.0	27002215	-25.0	-56.0	62.0
37	38	Lance, Ryan	ConocoPhillips	30363744	30.0	53848638	146.0	-7.0	-9.0
38	39	Ossip, David	Ceridian HCM Holding Inc.	30180957	159.0	43917997	2744.0	-97.0	NaN
39	40	Kotick, Robert	Activision Blizzard, Inc.	30122896	-2.0	43740349	915.0	-29.0	55.0
40	41	Narasimhan, Laxman	Reckitt Benckiser Group plc	29507921	NaN	5697155	NaN	-5.0	16.0
41	42	Scharf, Charles	Wells Fargo & Company	29286574	NaN	503130	NaN	-21.0	43.0
42	43	Gorder, Joseph	Valero Energy Corporation	28200511	50.0	20481316	-36.0	-30.0	46.0
43	44	Fanning, Thomas	The Southern Company	27865185	113.0	78174160	809.0	-52.0	55.0
44	45	White, Miles	Abbott Laboratories	27802817	15.0	53812462	70.0	-22.0	-7.0
45	46	Legere, John	T-Mobile US, Inc.	27756690	-58.0	32833829	-22.0	-23.0	23.0
46	47	Charlès, Bernard	Dassault Systèmes SE	27754879	6.0	3363677	-95.0	-42.0	24.0
47	48	Norcross, Gary	Fidelity National Information Services, Inc.	27658117	50.0	43776767	24.0	-37.0	27.0
48	49	Frazier, Kenneth	Merck & Co., Inc.	27648475	32.0	55609124	14.0	-22.0	-18.0
49	50	Yabuki, Jeffery	Fiserv, Inc.	27601026	122.0	108542760	42.0	-57.0	45.0

In [10]:

data.info()

RangeIndex: 50 entries, 0 to 49 Data columns (total 9 columns): # Column Non-Null Count Dtype -------0 ranking 50 non-null int64 1 ceo 50 non-null object company 50 non-null 2 object 3 tgc 50 non-null int64 4 tgc_yr 41 non-null float64 5 trc 50 non-null int64 6 trc_yr 41 non-null float64 7 47 non-null float64 tsr tsr_yr 46 non-null float64

<class 'pandas.core.frame.DataFrame'>

dtypes: float64(4), int64(3), object(2)

memory usage: 3.6+ KB

In [11]: da

data.head()

Out[11]:		ranking	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
	0	1	Pichai, Sundar	Alphabet Inc.	276932830	NaN	8274631	NaN	-29.0	30.0
	1	2	Ianniello, Joseph	ViacomCBS Inc.	125433673	NaN	112927969	NaN	2.0	23.0
	2	3	Testrow, lan	Emeco Holdings Limited	71302438	5862.0	18451964	1443.0	-7.0	25.0
	3	4	Swan, Robert	Intel Corporation	66935100	326.0	12983400	31.0	-31.0	26.0
	4	5	Su, Lisa	Advanced Micro Devices, Inc.	58534288	338.0	38870577	-15.0	-148.0	69.0

In [12]:

data.tail()

Out[12]:		ranking	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
	45	46	Legere, John	T-Mobile US, Inc.	27756690	-58.0	32833829	-22.0	-23.0	23.0
	46	47	Charlès, Bernard	Dassault Systèmes SE	27754879	6.0	3363677	-95.0	-42.0	24.0
	47	48	Norcross, Gary	Fidelity National Information Services, Inc.	27658117	50.0	43776767	24.0	-37.0	27.0
	48	49	Frazier, Kenneth	Merck & Co., Inc.	27648475	32.0	55609124	14.0	-22.0	-18.0
	49	50	Yabuki, Jeffery	Fiserv, Inc.	27601026	122.0	108542760	42.0	-57.0	45.0

In [13]:

s=data.drop(['ranking'],axis='columns',inplace=True)

In [14]:

data

Out[14]:		ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
	0	Pichai, Sundar	Alphabet Inc.	276932830	NaN	8274631	NaN	-29.0	30.0
	1	Ianniello, Joseph	ViacomCBS Inc.	125433673	NaN	112927969	NaN	2.0	23.0
	2	Testrow, lan	Emeco Holdings Limited	71302438	5862.0	18451964	1443.0	-7.0	25.0
	3	Swan, Robert	Intel Corporation	66935100	326.0	12983400	31.0	-31.0	26.0
	4	Su, Lisa	Advanced Micro Devices, Inc.	58534288	338.0	38870577	-15.0	-148.0	69.0
	5	Wenig, Devin	eBay Inc.	57225870	215.0	75053893	196.0	-31.0	56.0
	6	Dolan, James	The Madison Square Garden Company	54116491	367.0	9727834	63.0	-10.0	-17.0
	7	Plant, John	Arconic Inc.	51712578	NaN	21771078	NaN	-84.0	121.0
	8	Ermotti, Sergio	UBS Group AG	47710452	232.0	12032252	-3.0	-5.0	34.0
	9	lger, Robert	The Walt Disney Company	47517762	-28.0	67918815	3.0	-34.0	30.0
	10	Silbermann, Benjamin	Pinterest, Inc.	46222113	NaN	32996177	NaN	NaN	NaN

	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
11	Zaslav, David	Discovery Communications, Inc.	45843912	-65.0	50646901	51.0	-32.0	22.0
12	Maffei, Gregory	Liberty Media Corporation	44045070	119.0	152676239	1548.0	NaN	NaN
13	Patricio, Miguel	The Kraft Heinz Company	43297480	NaN	2551285	NaN	21.0	21.0
14	Nadella, Satya	Microsoft Corporation	42910215	66.0	191751389	450.0	-58.0	37.0
15	Gelsinger, Patrick	VMware, Inc.	42549725	81.0	81690281	132.0	-11.0	-21.0
16	Khosrowshahi, Dara	Uber Technologies, Inc.	42428233	-6.0	37069227	613.0	NaN	NaN
17	Schneider, David	Zalando SE	42216784	341.0	86609	-99.0	-101.0	150.0
18	Ritter, Rubin	Zalando SE	42216168	341.0	7604822	44.0	-101.0	150.0
19	Gentz, Robert	Zalando SE	42215267	341.0	85091	-99.0	-101.0	150.0
20	McDermott, William	ServiceNow, Inc.	41682335	NaN	1873259	NaN	-59.0	22.0
21	Narayen, Shantanu	Adobe Systems Incorporated	39145631	38.0	69396442	3.0	-46.0	17.0
22	Hastings, Wilmot	Netflix, Inc.	38577129	7.0	222643547	5377.0	-21.0	-19.0
23	Merlo, Larry	CVS Health Corporation	36451749	66.0	29294021	89.0	-17.0	24.0
24	Simon, Irwin	The Hain Celestial Group, Inc.	36373053	387.0	40864186	218.0	-64.0	126.0
25	Roberts, Brian	Comcast Corporation	36370183	4.0	144283880	204.0	-34.0	47.0
26	Umpleby, D.	Caterpillar Inc.	34519129	26.0	26294681	77.0	-20.0	37.0
27	Wirth, Michael	Chevron Corporation	33070662	60.0	24485657	34.0	-15.0	25.0
28	Manley, Michael	Fiat Chrysler Automobiles N.V.	32595999	628.0	8153251	451.0	-21.0	36.0
29	Gabelli, Mario	GAMCO Investors, Inc.	32236004	202.0	43269324	306.0	-16.0	59.0
30	Niccol, Brian	Chipotle Mexican Grill, Inc.	32136288	-4.0	42205599	714.0	-94.0	44.0
31	Stephenson, Randall	AT&T Inc.	32032925	10.0	27727298	28.0	-46.0	68.0
32	Garland, Greg	Phillips 66	31900878	65.0	54470121	113.0	-34.0	46.0
33	Gorman, James	Morgan Stanley	31642395	12.0	23433106	21.0	-33.0	55.0
34	Dimon, James	JPMorgan Chase & Co.	31612616	5.0	107815980	494.0	-47.0	54.0
35	O'Sullivan, Michael	Burlington Stores, Inc.	31056597	NaN	769161	NaN	-40.0	8.0
36	Moghadam, Hamid	Prologis, Inc.	30383438	8.0	27002215	-25.0	-56.0	62.0
37	Lance, Ryan	ConocoPhillips	30363744	30.0	53848638	146.0	-7.0	-9.0
38	Ossip, David	Ceridian HCM Holding Inc.	30180957	159.0	43917997	2744.0	-97.0	NaN
39	Kotick, Robert	Activision Blizzard, Inc.	30122896	-2.0	43740349	915.0	-29.0	55.0
40	Narasimhan, Laxman	Reckitt Benckiser Group plc	29507921	NaN	5697155	NaN	-5.0	16.0
41	Scharf, Charles	Wells Fargo & Company	29286574	NaN	503130	NaN	-21.0	43.0
42	Gorder, Joseph	Valero Energy Corporation	28200511	50.0	20481316	-36.0	-30.0	46.0
43	Fanning, Thomas	The Southern Company	27865185	113.0	78174160	809.0	-52.0	55.0
44	White, Miles	Abbott Laboratories	27802817	15.0	53812462	70.0	-22.0	-7.0
45	Legere, John	T-Mobile US, Inc.	27756690	-58.0	32833829	-22.0	-23.0	23.0
46	Charlès, Bernard	Dassault Systèmes SE	27754879	6.0	3363677	-95.0	-42.0	24.0

```
company
                            ceo
                                                                            tgc_yr
                                                                                           trc
                                                                                               trc_yr
                                                                                                             tsr_yr
                                                                        tgc
                                                                                                         tsr
                                 Fidelity National Information Services,
          47
                   Norcross, Gary
                                                                   27658117
                                                                                     43776767
                                                                                                 24.0
                                                                                                       -37.0
                                                                                                              27.0
                                                                               50.0
          48
                  Frazier, Kenneth
                                                  Merck & Co., Inc.
                                                                                     55609124
                                                                                                 14.0
                                                                                                       -22.0
                                                                                                              -18.0
                                                                   27648475
                                                                               32.0
          49
                   Yabuki, Jeffery
                                                        Fiserv, Inc.
                                                                   27601026
                                                                              122.0
                                                                                   108542760
                                                                                                 42.0
                                                                                                       -57.0
                                                                                                              45.0
In [15]:
           data.head()
Out[15]:
                                            company
                                                            tgc tgc_yr
                                                                                  trc_yr
                                                                                             tsr tsr_yr
                        ceo
          0
               Pichai, Sundar
                                         Alphabet Inc.
                                                      276932830
                                                                          8274631
                                                                                           -29.0
                                                                                                  30.0
                                                                  NaN
                                                                                    NaN
             Ianniello, Joseph
                                       ViacomCBS Inc.
                                                      125433673
                                                                        112927969
                                                                                    NaN
                                                                                             2.0
                                                                                                  23.0
                                                                  NaN
          2
                 Testrow, lan
                                Emeco Holdings Limited
                                                       71302438
                                                                5862.0
                                                                         18451964 1443.0
                                                                                            -7.0
                                                                                                  25.0
          3
                Swan, Robert
                                      Intel Corporation
                                                       66935100
                                                                  326.0
                                                                         12983400
                                                                                     31.0
                                                                                           -31.0
                                                                                                  26.0
          4
                    Su, Lisa Advanced Micro Devices, Inc.
                                                       58534288
                                                                  338.0
                                                                         38870577
                                                                                    -15.0 -148.0
                                                                                                  69.0
In [16]:
           data.isnull().sum()
                       0
Out[16]:
                       0
          company
          tgc
                       0
                       9
          tgc yr
          trc
          trc yr
          tsr
          tsr yr
                       4
          dtype: int64
In [17]:
           data.dropna(axis=0,inplace=True)
In [18]:
           data.isnull().sum()
                       0
          ceo
Out[18]:
          company
                       0
          tgc
                       0
          tgc yr
          trc
          trc yr
          tsr
                       0
          tsr yr
          dtype: int64
In [19]:
           data['ceo'].values
          array(['Testrow, Ian', 'Swan, Robert', 'Su, Lisa', 'Wenig, Devin',
Out[19]:
                  'Dolan, James', 'Ermotti, Sergio', 'Iger, Robert', 'Zaslav, David',
                  'Nadella, Satya', 'Gelsinger, Patrick', 'Schneider, David',
                  'Ritter, Rubin', 'Gentz, Robert', 'Narayen, Shantanu',
                  'Hastings, Wilmot', 'Merlo, Larry', 'Simon, Irwin',
                  'Roberts, Brian', 'Umpleby, D.', 'Wirth, Michael',
                  'Manley, Michael', 'Gabelli, Mario', 'Niccol, Brian',
                  'Stephenson, Randall', 'Garland, Greg', 'Gorman, James',
                   'Dimon, James', 'Moghadam, Hamid', 'Lance, Ryan', 'Kotick, Robert',
```

'Gorder, Joseph', 'Fanning, Thomas', 'White, Miles', 'Legere, John', 'Charlès, Bernard', 'Norcross, Gary', 'Frazier, Kenneth', 'Yabuki, Jeffery'], dtype=object)

In [20]:

data

Out[20]:		ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
	2	Testrow, lan	Emeco Holdings Limited	71302438	5862.0	18451964	1443.0	-7.0	25.0
	3	Swan, Robert	Intel Corporation	66935100	326.0	12983400	31.0	-31.0	26.0
	4	Su, Lisa	Advanced Micro Devices, Inc.	58534288	338.0	38870577	-15.0	-148.0	69.0
	5	Wenig, Devin	eBay Inc.	57225870	215.0	75053893	196.0	-31.0	56.0
	6	Dolan, James	The Madison Square Garden Company	54116491	367.0	9727834	63.0	-10.0	-17.0
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	11	Zaslav, David	Discovery Communications, Inc.	45843912	-65.0	50646901	51.0	-32.0	22.0
	14	Nadella, Satya	Microsoft Corporation	42910215	66.0	191751389	450.0	-58.0	37.0
	15	Gelsinger, Patrick	VMware, Inc.	42549725	81.0	81690281	132.0	-11.0	-21.0
	17	Schneider, David	Zalando SE	42216784	341.0	86609	-99.0	-101.0	150.0
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	21	Narayen, Shantanu	Adobe Systems Incorporated	39145631	38.0	69396442	3.0	-46.0	17.0
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	30	Niccol, Brian	Chipotle Mexican Grill, Inc.	32136288	-4.0	42205599	714.0	-94.0	44.0
	31	Stephenson, Randall	AT&T Inc.	32032925	10.0	27727298	28.0	-46.0	68.0
	32	Garland, Greg	Phillips 66	31900878	65.0	54470121	113.0	-34.0	46.0
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	34	Dimon, James	JPMorgan Chase & Co.	31612616	5.0	107815980	494.0	-47.0	54.0
	36	Moghadam, Hamid	Prologis, Inc.	30383438	8.0	27002215	-25.0	-56.0	62.0
	37	Lance, Ryan	ConocoPhillips	30363744	30.0	53848638	146.0	-7.0	-9.0
	39	Kotick, Robert	Activision Blizzard, Inc.	30122896	-2.0	43740349	915.0	-29.0	55.0
	42	Gorder, Joseph	Valero Energy Corporation	28200511	50.0	20481316	-36.0	-30.0	46.0
	43	Fanning, Thomas	The Southern Company	27865185	113.0	78174160	809.0	-52.0	55.0

	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
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45	Legere, John	T-Mobile US, Inc.	27756690	-58.0	32833829	-22.0	-23.0	23.0
46	Charlès, Bernard	Dassault Systèmes SE	27754879	6.0	3363677	-95.0	-42.0	24.0
47	Norcross, Gary	Fidelity National Information Services, Inc.	27658117	50.0	43776767	24.0	-37.0	27.0
48	Frazier, Kenneth	Merck & Co., Inc.	27648475	32.0	55609124	14.0	-22.0	-18.0
49	Yabuki, Jeffery	Fiserv, Inc.	27601026	122.0	108542760	42.0	-57.0	45.0

In [21]: data['tgc_yr'].dtype

Out[21]: dtype('float64')

In [22]: data.dtypes

Out[22]: ceo object company object tgc int64 tgc yr float64

tgc_yr
trc int64
trc_yr float64
tsr float64
tsr_yr float64

dtype: object

In [23]: display(data[data['tgc_yr']>=50])

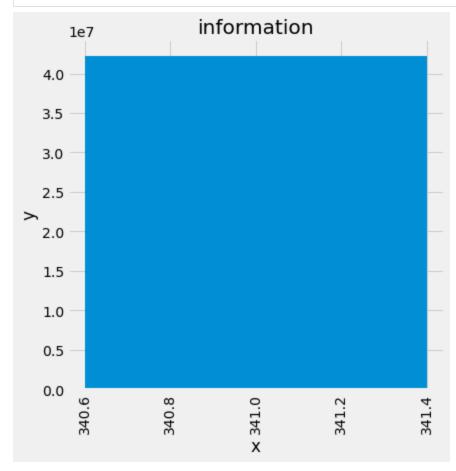
	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
2	Testrow, lan	Emeco Holdings Limited	71302438	5862.0	18451964	1443.0	-7.0	25.0
3	Swan, Robert	Intel Corporation	66935100	326.0	12983400	31.0	-31.0	26.0
4	Su, Lisa	Advanced Micro Devices, Inc.	58534288	338.0	38870577	-15.0	-148.0	69.0
5	Wenig, Devin	eBay Inc.	57225870	215.0	75053893	196.0	-31.0	56.0
6	Dolan, James	The Madison Square Garden Company	54116491	367.0	9727834	63.0	-10.0	-17.0
8	Ermotti, Sergio	UBS Group AG	47710452	232.0	12032252	-3.0	-5.0	34.0
14	Nadella, Satya	Microsoft Corporation	42910215	66.0	191751389	450.0	-58.0	37.0
15	Gelsinger, Patrick	VMware, Inc.	42549725	81.0	81690281	132.0	-11.0	-21.0
17	Schneider, David	Zalando SE	42216784	341.0	86609	-99.0	-101.0	150.0
18	Ritter, Rubin	Zalando SE	42216168	341.0	7604822	44.0	-101.0	150.0
19	Gentz, Robert	Zalando SE	42215267	341.0	85091	-99.0	-101.0	150.0
23	Merlo, Larry	CVS Health Corporation	36451749	66.0	29294021	89.0	-17.0	24.0
24	Simon, Irwin	The Hain Celestial Group, Inc.	36373053	387.0	40864186	218.0	-64.0	126.0
27	Wirth, Michael	Chevron Corporation	33070662	60.0	24485657	34.0	-15.0	25.0
28	Manley, Michael	Fiat Chrysler Automobiles N.V.	32595999	628.0	8153251	451.0	-21.0	36.0

	ceo	company	tgc	tgc_yr	trc	trc_yr	tsr	tsr_yr
29	Gabelli, Mario	GAMCO Investors, Inc.	32236004	202.0	43269324	306.0	-16.0	59.0
32	Garland, Greg	Phillips 66	31900878	65.0	54470121	113.0	-34.0	46.0
42	Gorder, Joseph	Valero Energy Corporation	28200511	50.0	20481316	-36.0	-30.0	46.0
43	Fanning, Thomas	The Southern Company	27865185	113.0	78174160	809.0	-52.0	55.0
47	Norcross, Gary	Fidelity National Information Services, Inc.	27658117	50.0	43776767	24.0	-37.0	27.0
49	Yabuki, Jeffery	Fiserv, Inc.	27601026	122.0	108542760	42.0	-57.0	45.0

```
import matplotlib.pyplot as plt
from matplotlib import style
from matplotlib import figure
style.use('fivethirtyeight')
```

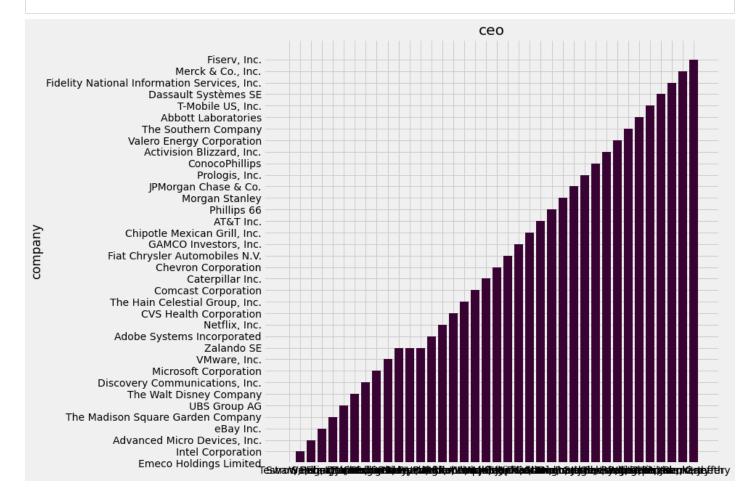
```
In [25]: s=data[data.company=='Zalando SE']
```

```
In [28]: 
    plt.bar(s['tgc_yr'],s['tgc'])
    plt.title("information")
    plt.xlabel('x')
    plt.ylabel('y')
    plt.gcf().set_size_inches(6,6)
    plt.xticks(rotation=90)
    plt.show()
```



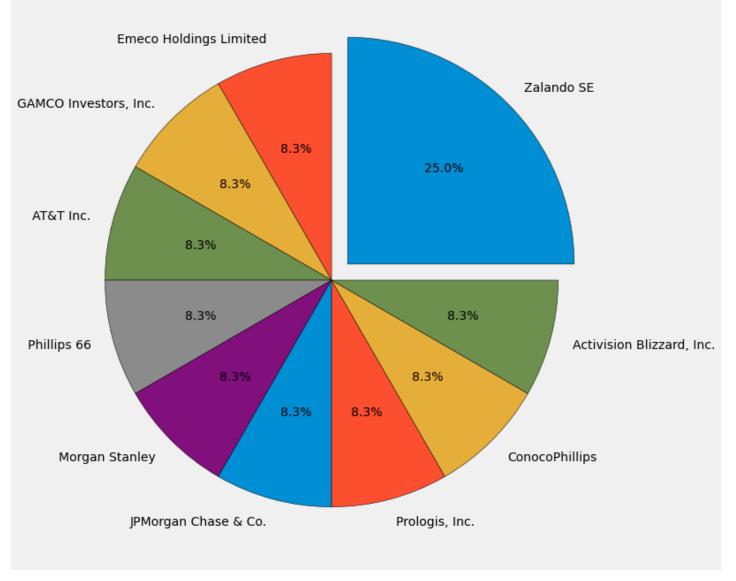
```
In [30]: plt.bar(data['ceo'], data['company'], color='#380232')
    plt.title('ceo')
    plt.ylabel('company')
```

```
plt.gcf().set_size_inches(10,10)
plt.show()
```



```
In [31]:
    company=data["company"].value_counts().head(10).values
    name=data["company"].value_counts().head(10).index
    plt.gcf().set_size_inches(20,11)
    plt.pie(company,labels=name,autopct="%1.1f%%",wedgeprops={"edgecolor":"black"},explode=[0
    plt.title('Top 10')
    plt.show()
```





In []:		
In []:		