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```
import numpy as np
In [24]:
           import pandas as pd
           company=pd.read_csv('Fortune 500 Companies US.csv',encoding='cp1252')
In [25]:
In [26]:
           company.head()
Out[26]:
                                 Number
                    Company
                                          Previous
                                                              Revenue
                                                                                   Profit
                                                                                                      Ma
              Rank
                                                    Revenues
                                                                          Profits
                                                                                             Assets
                                      of
                       Name
                                             Rank
                                                               Change
                                                                                  Change
                               Employees
           0
                 1
                      Walmart
                                23,00,000
                                               1.0
                                                    $4,85,873
                                                                  0.8%
                                                                        $13,643.0
                                                                                    -7.2%
                                                                                          $1,98,825
                                                                                                    $2,18
                     Berkshire
           1
                 2
                                 3,67,700
                                                    $2,23,604
                                                                       $24,074.0
                                                                                    0.0%
                                               4.0
                                                                  6.1%
                                                                                          $6,20,854
                                                                                                    $4,11
                    Hathaway
           2
                 3
                                 1,16,000
                                                                 -7.7%
                                                                       $45,687.0
                                                                                   -14.4%
                        Apple
                                               3.0
                                                    $2,15,639
                                                                                          $3,21,686
                                                                                                    $7,53
                        Exxon
           3
                                   72,700
                                               2.0
                                                    $2,05,004
                                                                -16.7%
                                                                         $7,840.0
                                                                                   -51.5%
                                                                                          $3,30,314
                 4
                                                                                                    $3,40
                        Mobil
           4
                 5 McKesson
                                   68,000
                                               5.0
                                                    $1,92,487
                                                                  6.2%
                                                                         $2,258.0
                                                                                   53.0%
                                                                                            $56,563
                                                                                                      $31
In [29]:
           company=company.groupby('Company Name')
           company.size().sort_values(ascending=False)
In [31]:
           Company Name
Out[31]:
                                      2
           Regions Financial
           Alcoa
                                      2
           Avnet
                                      2
           3M
                                      1
           Nucor
                                      1
                                     . .
           Eli Lilly
                                      1
           Edison International
                                      1
           Ecolab
           Eastman Chemical
                                      1
           salesforce.com
           Length: 497, dtype: int64
In [32]:
           company.first()
```

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Out[32]:

		Rank	Number of Employees	Previous Rank	Revenues	Revenue Change	Profits	Profit Change	Assets	Mar Va
	Company Name									
	3M	94	91,584	93.0	\$30,109	-0.5%	\$5,050.0	4.5%	\$32,906	\$1,14,
	A-Mark Precious Metals	395	83,000	426.0	\$6,784	11.8%	\$9.3	31.5%	\$437	\$
	ABM Industries	500	1,10,000	485.0	\$5,145	-2.8%	\$57.2	-25.0%	\$2,281	\$2,4
	ADP	240	57,000	248.0	\$11,668	1.7%	\$1,492.5	2.8%	\$43,670	\$45,
	AECOM	161	87,000	156.0	\$17,411	-3.2%	\$96.1	-	\$13,727	\$5,
	•••									
	Yum China Holdings	399	4,20,000	NaN	\$6,752	-	\$502.0	-	\$3,727	\$10,
	Zimmer Biomet Holdings	352	18,500	431.0	\$7,684	28.1%	\$305.9	108.1%	\$26,684	\$24,
	eBay	310	12,600	300.0	\$8,979	-5.4%	\$7,266.0	321.2%	\$23,847	\$36,
	iHeartMedia	426	18,700	414.0	\$6,274	0.5%	-\$296.3	-	\$12,862	\$3
s	alesforce.com	326	25,000	386.0	\$8,392	25.9%	\$179.6	-	\$17,585	\$58,

497 rows × 9 columns

←

In [33]: company.last()

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Out[33]:

		Rank	Number of Employees	Previous Rank	Revenues	Revenue Change	Profits	Profit Change	Assets	Mar Va
	Company Name									
	3M	94	91,584	93.0	\$30,109	-0.5%	\$5,050.0	4.5%	\$32,906	\$1,14,
	A-Mark Precious Metals	395	83,000	426.0	\$6,784	11.8%	\$9.3	31.5%	\$437	\$
	ABM Industries	500	1,10,000	485.0	\$5,145	-2.8%	\$57.2	-25.0%	\$2,281	\$2,4
	ADP	240	57,000	248.0	\$11,668	1.7%	\$1,492.5	2.8%	\$43,670	\$45,
	AECOM	161	87,000	156.0	\$17,411	-3.2%	\$96.1	-	\$13,727	\$5,
	•••									
	Yum China Holdings	399	4,20,000	NaN	\$6,752	-	\$502.0	-	\$3,727	\$10,
	Zimmer Biomet Holdings	352	18,500	431.0	\$7,684	28.1%	\$305.9	108.1%	\$26,684	\$24,
	eBay	310	12,600	300.0	\$8,979	-5.4%	\$7,266.0	321.2%	\$23,847	\$36,
	iHeartMedia	426	18,700	414.0	\$6,274	0.5%	-\$296.3	-	\$12,862	\$3
s	alesforce.com	326	25,000	386.0	\$8,392	25.9%	\$179.6	-	\$17,585	\$58,

497 rows × 9 columns

→

In [36]: company.groups

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{'3M': [93], 'A-Mark Precious Metals': [394], 'ABM Industries': [499], 'ADP': [23 Out[36]: 9], 'AECOM': [160], 'AES': [193], 'AGCO': [369], 'AIG': [54], 'AK Steel Holding': [440], 'AT&T': [8], 'AbbVie': [110], 'Abbott Laboratories': [134], 'Activision Bli zzard': [405], 'Adobe Systems': [442], 'Advance Auto Parts': [291], 'Aetna': [42], 'Aflac': [125], 'Air Products & Chemicals': [293], 'Airgas': [488], 'Alaska Air Gr oup': [437], 'Albertsons Cos.': [48], 'Alcoa': [227, 299], 'Alleghany': [427], 'Al liance Data Systems': [377], 'Allstate': [83], 'Ally Financial': [285], 'Alphabe t': [26], 'Altria Group': [147], 'AmTrust Financial Services': [474], 'Amazon.co m': [11], 'Ameren': [430], 'American Airlines Group': [66], 'American Electric Pow er': [166], 'American Express': [85], 'American Family Insurance Group': [314], 'A merican Financial Group': [410], 'American Tower': [448], 'Ameriprise Financial': [238], 'AmerisourceBergen': [10], 'Amgen': [122], 'Amphenol': [423], 'Anadarko Pet roleum': [343], 'Anixter International': [358], 'Anthem': [28], 'Apache': [487], 'Apple': [2], 'Applied Materials': [264], 'Aramark': [191], 'Archer Daniels Midlan d': [44], 'Arrow Electronics': [117], 'Arthur J. Gallagher': [461], 'Asbury Automo tive Group': [409], 'Ascena Retail Group': [383], 'Assurant': [360], 'Auto-Owners Insurance': [397], 'AutoNation': [128], 'AutoZone': [269], 'Autoliv': [282], 'Aver y Dennison': [429], 'Avis Budget Group': [318], 'Avnet': [107, 108], 'Avon Product s': [443], 'BB&T Corp.': [244], 'Baker Hughes': [284], 'Ball': [305], 'Bank of Ame rica Corp.': [25], 'Bank of New York Mellon Corp.': [176], 'Baxter International': [280], 'Becton Dickinson': [224], 'Bed Bath & Beyond': [232], 'Berkshire Hathawa y': [1], 'Berry Global Group': [412], 'Best Buy': [71], 'Big Lots': [494], 'Bioge n': [247], 'BlackRock': [254], 'Boeing': [23], 'Booz Allen Hamilton Holding': [48 0], 'BorgWarner': [304], 'Boston Scientific': [326], 'Bristol-Myers Squibb': [14 6], 'Builders FirstSource': [420], 'Burlington Stores': [462], 'C.H. Robinson Worl dwide': [211], 'CBRE Group': [213], 'CBS': [192], 'CDW': [198], 'CH2M Hill': [49 3], 'CHS': [92], 'CMS Energy': [418], 'CST Brands': [306], 'CSX': [256], 'CVS Heal th': [6], 'CalAtlantic Group': [414], 'Calpine': [399], 'Campbell Soup': [338], 'C apital One Financial': [99], 'CarMax': [173], 'Cardinal Health': [14], 'CaseyÕs Ge neral Stores': [422], ...}

In [40]:

In [42]: company.sum()

C:\Users\SHANTANU GARAIN\AppData\Local\Temp\ipykernel_32472\3725003042.py:1: Futur
eWarning: The default value of numeric_only in DataFrameGroupBy.sum is deprecated.
In a future version, numeric_only will default to False. Either specify numeric_on
ly or select only columns which should be valid for the function.
 company.sum()

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Out[42]:

Rank Previous Rank

Company Name		
3M	94	93.0
A-Mark Precious Metals	395	426.0
ABM Industries	500	485.0
ADP	240	248.0
AECOM	161	156.0
•••		
Yum China Holdings	399	0.0
Zimmer Biomet Holdings	352	431.0
еВау	310	300.0
iHeartMedia	426	414.0
salesforce.com	326	386.0

497 rows × 2 columns

In [43]: company.mean()

C:\Users\SHANTANU GARAIN\AppData\Local\Temp\ipykernel_32472\454767896.py:1: Future
Warning: The default value of numeric_only in DataFrameGroupBy.mean is deprecated.
In a future version, numeric_only will default to False. Either specify numeric_on
ly or select only columns which should be valid for the function.
 company.mean()

Rank Previous Rank

Out[43]:

Company Name		
3M	94.0	93.0
A-Mark Precious Metals	395.0	426.0
ABM Industries	500.0	485.0
ADP	240.0	248.0
AECOM	161.0	156.0
		
Yum China Holdings	399.0	NaN
Zimmer Biomet Holdings	352.0	431.0
еВау	310.0	300.0
iHeartMedia	426.0	414.0
salesforce.com	326.0	386.0

497 rows × 2 columns

In []: