

```
In [5]: import pandas as pd
import numpy as np
```

```
In [6]: df=pd.read_csv('C:/Users/SUBINDAS/Desktop/subin/PIVOT TABLE/TechCrunchcontinentalUSA.cs
```

```
In [7]: #showing first rows with head()
df.head()
```

```
Out[7]:
```

	permalink	company	numEmps	category	city	state	fundedDate	raisedAmt	raisedCurren
<b>0</b>	lifelock	LifeLock	NaN	web	Tempe	AZ	1-May-07	6850000	U
<b>1</b>	lifelock	LifeLock	NaN	web	Tempe	AZ	1-Oct-06	6000000	U
<b>2</b>	lifelock	LifeLock	NaN	web	Tempe	AZ	1-Jan-08	25000000	U
<b>3</b>	mycityfaces	MyCityFaces	7.0	web	Scottsdale	AZ	1-Jan-08	50000	U
<b>4</b>	flypaper	Flypaper	NaN	web	Phoenix	AZ	1-Feb-08	3000000	U

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```
In [11]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1460 entries, 0 to 1459
Data columns (total 10 columns):
 #   Column           Non-Null Count  Dtype  
 ---  -- 
 0   permalink        1460 non-null   object 
 1   company          1460 non-null   object 
 2   numEmps          567 non-null    float64
 3   category         1436 non-null   object 
 4   city              1442 non-null   object 
 5   state             1460 non-null   object 
 6   fundedDate       1460 non-null   object 
 7   raisedAmt        1460 non-null   int64  
 8   raisedCurrency   1460 non-null   object 
 9   round             1460 non-null   object 
dtypes: float64(1), int64(1), object(8)
memory usage: 68.5+ KB
```

```
In [12]: #describe stastical information on data set
df.describe()
```

```
Out[12]:
```

	numEmps	raisedAmt
<b>count</b>	567.000000	1.460000e+03
<b>mean</b>	95.721340	1.013149e+07
<b>std</b>	867.524287	1.866146e+07
<b>min</b>	0.000000	6.000000e+03
<b>25%</b>	8.000000	2.000000e+06
<b>50%</b>	20.000000	5.500000e+06
<b>75%</b>	50.000000	1.102500e+07
<b>max</b>	20000.000000	3.000000e+08

In [18]: TechCrunchcontinentalUSA\_df=pd.DataFrame(df)

In [19]: df

Out[19]:

	permalink	company	numEmps	category	city	state	fundedDate	raisedAmt	raisedCu
0	lifelock	LifeLock	NaN	web	Tempe	AZ	1-May-07	6850000	
1	lifelock	LifeLock	NaN	web	Tempe	AZ	1-Oct-06	6000000	
2	lifelock	LifeLock	NaN	web	Tempe	AZ	1-Jan-08	25000000	
3	mycityfaces	MyCityFaces	7.0	web	Scottsdale	AZ	1-Jan-08	50000	
4	flypaper	Flypaper	NaN	web	Phoenix	AZ	1-Feb-08	3000000	
...	...	...	...	...	...	...	...	...	...
1455	trusera	Trusera	15.0	web	Seattle	WA	1-Jun-07	2000000	
1456	alerts-com	Alerts.com	NaN	web	Bellevue	WA	8-Jul-08	1200000	
1457	myrio	Myrio	75.0	software	Bothell	WA	1-Jan-01	20500000	
1458	grid-networks	Grid Networks	NaN	web	Seattle	WA	30-Oct-07	9500000	
1459	grid-networks	Grid Networks	NaN	web	Seattle	WA	20-May-08	10500000	

1460 rows × 10 columns

In [20]: # getting which column contains null  
TechCrunchcontinentalUSA\_df.isnull().any()

Out[20]:

permalink	False
company	False
numEmps	True
category	True
city	True
state	False
fundedDate	False
raisedAmt	False
raisedCurrency	False
round	False
dtype: bool	

In [21]: # getting missing values count  
TechCrunchcontinentalUSA\_df.isnull().sum().values.sum()

Out[21]: 935

In [22]: # count of all city  
TechCrunchcontinentalUSA\_df["city"].value\_counts()

Out[22]:

San Francisco	228
New York	93
Mountain View	89
Palo Alto	78
Seattle	75

```

...
Santa Barbara      1
Mishawaka         1
Wayne              1
Del Mar            1
Carlsbad           1
Name: city, Length: 193, dtype: int64

```

In [23]: `# count of all company  
TechCrunchcontinentalUSA_df["company"].value_counts()`

```

Out[23]: Facebook          7
Brightcove          5
Action Engine        5
Viv'simo             5
SearchMe             5
..
InThrMa              1
Adconion Media Group 1
BountyJobs            1
Your Survival         1
Pangea Media          1
Name: company, Length: 909, dtype: int64

```

In [24]: `# total raisedAmt of company  
df.groupby('company').sum(),['total']`

```

Out[24]: (   numEmps  raisedAmt
company
23andMe          30.0    9000000
3Jam              0.0    4000000
4HomeMedia        10.0   2850000
5min              16.0   5300000
750 Industries    7.0   1000000
...
uber              24.0   7600000
utoopia            2.0    100000
vbs tv             40.0  10000000
x+1                0.0   16000000
xkoto              45.0   7500000
.
[909 rows x 2 columns],
['total'])

```

In [25]: `df.groupby('category').sum(),['total']`

```

Out[25]: (   numEmps  raisedAmt
category
biotech            5.0    77250000
cleantech          18.0   258900000
consulting         608.0   32135000
hardware           1684.0  824500000
mobile              197.0   323020000
other               513.0   119850000
software            2123.0  1017942000
web                 44115.0  11765074750,
['total'])

```

In [26]: `df.groupby('city').sum(),['total']`

```

Out[26]: (   numEmps  raisedAmt
city
Acton              30.0   27000000
Agoura Hills       12.0   32000000

```

```

Alameda          0.0  20000000
Albuquerque     18.0   6500000
Alico Viejo     0.0  11100000
...
Westport         10.0   350000
Westwood         400.0  70000000
Winston-Salem    0.0  64000000
Woburn           0.0  16000000
Woodside          3.0   1000000

```

```
[193 rows x 2 columns],
['total'])
```

In [27]: `df.groupby('state').sum(),['total']`

```

Out[27]: (      numEmps  raisedAmt
state
AZ        126.0    50523750
CA      42650.0  9361385000
CO        30.0   126470000
CT        240.0   232645000
DC        11.0   93710000
FL        108.0   305818000
GA         2.0   58660000
IA        12.0    225000
ID         0.0   5500000
IL        110.0  112920000
IN        200.0   23200000
LA         4.0    25000
MA      4396.0  1165120000
MD        111.0  351750000
ME         17.0   1095000
MI         45.0  100000000
MN         9.0    600000
MO        24.0   6250000
NC      1075.0  154200000
ND         6.0    570000
NE         0.0   27400000
NJ         6.0  141700000
NM        18.0   6500000
NY      1801.0  890185000
OH         0.0  220000000
OR        500.0  138400000
PA        57.0   53925000
RI         0.0    500000
TN         0.0   21500000
TX        305.0  220125000
UT        126.0  153080000
VA        401.0  266400000
WA      1884.0  789590000,
['total'])

```

In [28]: `# company raisedAmt by max  
TechCrunchcontinentalUSA_df.iloc[TechCrunchcontinentalUSA_df['raisedAmt'].idxmax()]`

```

Out[28]: permalink      facebook
company        Facebook
numEmps         450
category       web
city            Palo Alto
state           CA
fundedDate     1-Oct-07
raisedAmt      3000000000
raisedCurrency USD

```

```
round          c
Name: 14, dtype: object
```

```
In [29]: # describe columns
df.columns
```

```
Out[29]: Index(['permalink', 'company', 'numEmps', 'category', 'city', 'state',
       'fundedDate', 'raisedAmt', 'raisedCurrency', 'round'],
      dtype='object')
```

```
In [30]: # is there a NaN in the dataset
df.isna().sum()
```

```
Out[30]: permalink      0
company        0
numEmps     893
category      24
city         18
state         0
fundedDate    0
raisedAmt     0
raisedCurrency 0
round         0
dtype: int64
```

```
In [31]: # no of company
TechCrunchcontinentalUSA_df['company'].unique()
```

```
Out[31]: array(['LifeLock', 'MyCityFaces', 'Flypaper', 'Infusionsoft', 'gAuto',
       'ChosenList.com', 'Digg', 'Facebook', 'Photobucket', 'Omnidrive',
       'Geni', 'Twitter', 'StumbleUpon', 'Gizmoz', 'Scribd', 'Slacker',
       'Lala', 'Plaxo', 'Powerset', 'Technorati', 'Mahalo', 'Kyte',
       'Veoh', 'Jingle Networks', 'Ning', 'JotSpot', 'Mercora', 'Wesabe',
       'Jangl', 'Hyphen 8', 'Prosper', 'Google', 'Jajah', 'YouTube',
       'Ustream', 'GizmoProject', 'Adap.tv', 'Topix', 'Revision3',
       'Aggregate Knowledge', 'Sugar Inc', 'Zing', 'CriticalMetrics',
       'Spock', 'Wize', 'SodaHead', 'CastTV', 'BuzzNet', 'Funny Or Die',
       'Sphere', 'MeeVee', 'Mashery', 'Yelp', 'Spotplex', 'Coghead',
       'Zoommr', 'SideStep', 'RockYou', 'Pageflakes', 'Swivel', 'Slide',
       'Bebo', 'freebase', 'Metaweb Technologies', 'Glam Media',
       'TheFind', 'Zazzle', 'Dogster', 'Pandora', 'Cafepress', 'pbwiki',
       'AdBrite', 'Loomia', 'Meebo', 'Eventbrite', 'LinkedIn', 'FlickIM',
       'Terabitz', 'Healthline', 'Box.net', 'Conduit', 'Edgeio',
       'Spot Runner', 'Kaboodle', 'Giga Omni Media', 'Visible Path',
       'Wink', 'seesmic', 'Zvents', 'Eventful', 'Oodle', 'oDesk',
       'SimplyHired', 'ooma', 'GoingOn', 'Flixster', 'Piczo',
       'Socialtext', 'PowerReview', 'hi5', 'Tagged', 'Jaxtr', 'Me',
       'introNetworks', 'Leverage Software', 'Lithium Technologies',
       'Genius', 'Respectance', 'Curse', 'LicketyShip', 'Grockit',
       'PeerMe', 'Kiptronic', 'Vuze', 'Phonezoo', 'Droplet Technology',
       'PodTech', 'Crackle', 'Reddit', 'Wikia', 'Retrevo', 'Buxfer',
       'YouSendIt', 'Tangler', 'obopay', 'PayPal', 'TalkPlus', 'Vudu',
       'Insider Pages', 'Snapfish', 'Affinity Circles', 'IMVU',
       'Nirvanix', 'Habit Industries', 'Gaia', 'GreatCall', 'Revver',
       'Metacafe', 'Flock', 'VMIX Media', 'Kontera', 'Tokbox',
       'Six Apart', 'Weebly', 'Synthasite', 'BitTorrent', 'Kongregate',
       'DanceJam', 'Fathom Online', 'Zivity', 'BlueLithium', 'eXpresso',
       'Doostang', 'Docstoc', 'Mevio', 'PureVideo Networks', 'FilmLoop',
       'BitPass', 'Art.com', 'Atom Shockwave', 'CinemaNow',
       'Digital Chocolate', 'eHarmony', 'Friendster', 'Greystripe',
       'Sling Media', 'Trulia', 'Lending Club', 'tubemogul', 'Gemini',
       'Multiverse', 'LimeLife', 'OpenTable', 'RooftopComedy',
       'Federated Media', 'Delivery Agent', 'Reunion', 'Mixercast',
       'mTraks', 'Xora', 'Ooyala', 'SayNow', 'Crunchyroll', 'CircleUp',
```

'PixSense', 'Danal', 'hulu', 'OurStory', 'Specificmedia', 'AdMob',  
'MySQL', 'Attributor', 'Social Media', 'Demand Media', 'TripIt',  
'PubMatic', 'Mint', 'app2you', 'YourStreet', 'Tagworld', 'RotoHog',  
'ThisNext', 'ChessPark', 'Break', 'MuseStorm', 'Media Machines',  
'Cihui', 'Aliph', 'mEgo', 'Realius', 'Xobni', 'Spoke', 'FixYa',  
'Mozilla', 'BrightQube', 'BuzzDash', 'Urban Mapping',  
'Consorte Media', 'ffwd', 'Get Satisfaction', 'RingCentral',  
'3Jam', 'PlaySpan', 'Grouply', 'Graspr', 'Zannel', 'deca.tv',  
'Zimbra', 'FriendFeed', 'Rupture', 'JibJab', 'Rubicon Project',  
'SnapLayout', 'Confabb', 'UpTake', '23andMe', 'YuMe',  
'Mochi Media', 'Blurb', 'WeatherBill', 'Automattic',  
'Radar Networks', 'Veodia', 'EchoSign', 'Rollbase', 'Predictify',  
'TrialPay', 'Socializr', 'Erekster', 'Gyget', 'PicksPal',  
'Gigya', 'Songbird', 'Guardian Analytics', 'Fora.TV', 'Disqus',  
'SezWho', 'YieldBuild', 'Akimbo', 'Laszlo Systems', 'BrightRoll',  
'MerchantCircle', 'Minekey', 'Booking Angel', 'Loopt', 'Fix8',  
'MyBuys', 'BlackArrow', 'Peerflix', 'fatdoor', 'Verimatrix',  
'Billeo', 'Caring.com', 'Ask.com', 'Project Playlist', 'Blowtorch',  
'GameLayers', 'MoGreet', 'YourTrumanShow', 'Apprema', 'TrustedID',  
'Seeqpod', 'Quantenna', 'Qwaq', 'uber', 'CashView', 'CrossLoop',  
'Dapper', 'Anchor Intelligence', 'EdgeCast', 'Kosmix', 'GoodReads',  
'Ribbit', 'Jobvite', 'Juice Wireless', 'Qik', 'PlayFirst',  
'Mobissimo', 'Chumby', 'UGOBE', 'Ausra', 'Causes', 'Nanosolar',  
'Shozu', 'Tesla Motors', 'Bunchball', 'Pinger', 'Hooja',  
'TravelMuse', 'Cooking.com', 'Meraki', 'SugarCRM', 'Pudding Media',  
'4HomeMedia', 'Pageonce', 'bluepulse', 'Mogad', 'DeviceVM',  
'Outspark', 'Engine Yard', 'PLYmedia', 'fabrik', 'Widgetbox',  
'RazorGator', 'OverSee', 'Zynga', 'Smaato', 'Credit Karma',  
'Greenplum', 'Amobee', 'WebMynd', 'Current Media', 'Heroku',  
'Lookery', 'Mill River Labs', 'Groupivity', 'Aductions',  
'VentureBeat', 'Collarity', 'RocketOn', 'What They Like', 'GumGum',  
'Snap Technologies', 'TwoFish', 'Three Rings', 'Smalltown',  
'Sparkplay Media', 'MOG', 'Social Gaming Network', 'Danger',  
'Coverity', 'GenieTown', 'Redux', 'Evernote', 'Numobiq',  
'GoldSpot Media', 'Mobixell', 'Ad Infuse', 'SendMe',  
'Tiny Pictures', 'flurry', 'Sharpcast', 'Teneros', 'PhotoCrack',  
'Yodlee', 'SlideRocket', 'Surf Canyon', 'Central Desktop',  
'OpenDNS', 'Coveo', 'Vizu', 'Taltopia', 'Kapow Technologies',  
'ProgrammerMeetDesigner.com', 'LiveOps', 'Clickpass', 'SearchMe',  
'AccountNow', 'DailyStrength', 'PopularMedia', 'Clarizen',  
'SellPoint', 'LiveDeal', 'NeoEdge Networks', 'Zuora', 'Jivox',  
'Elastra', 'kwiry', 'SupplyFrame', 'InMage Systems',  
'Authenticlick', 'Interneer', 'Handipoints',  
'Adconion Media Group', 'Zend Technologies', 'SlideShare',  
'Intent', 'Wikimedia Foundation', 'Clearwell Systems', 'Become',  
'Bubble Motion', 'Perfect Market', 'Glassdoor', 'Support Space',  
'Xoopit', 'Reality Digital', 'Cloud9 Analytics', 'Netcipia',  
'iControl', 'Frengo', 'mBlox', 'eSolar', 'Marin Software',  
'SiBEAM', 'Lumos Labs', 'iRise', 'richrelevance', 'Labmeeting',  
'Shopflick', 'TurnHere', 'Coupa', 'SquareTrade', 'V-Enable',  
'Aeria', 'Heysan', 'Memeo', 'imageshack', 'PluggedIn', 'CellSpin',  
'Remixation', 'The Auteurs', 'Modern Feed', 'GROU.PS', 'Triggit',  
'Serious Business', 'Presdo', 'Nile Guide', 'Adify', 'Invensense',  
"Center'd", 'New Relic', 'Gridstone Research', 'FusionOps',  
'MarketLive', 'SnapLogic', 'Boardwalktech', 'Rosum', 'CitizenHawk',  
'Dilithium Networks', 'Passenger', 'Experience Project', 'Mozes',  
'rVita', 'Mefeedia', 'Wavemaker Software', 'VirtualLogix',  
'Fonemesh', 'Cognition Technologies', 'Sometrics', 'SocialVibe',  
'deviantART', 'MyThings', 'mywaves', 'litescape', 'nextbio',  
'Parascale', 'Row44', 'JellyCloud', 'Aster Data Systems', 'Pixim',  
'Funambol', 'Moblyng', 'Zecter', 'Votigo', 'Zinio', 'Dreamfactory',  
'GreenNote', 'Skyfire', 'eduFire', 'B-hive Networks', 'VMware',  
'Katalyst Media', 'NeuroVigil', 'Sylantro', 'TeleFlip',  
'Vidshadow', 'Jigsaw', 'Ozmo Devices', 'Cooliris', 'Gamook',  
'Vindicia', 'Dizzywood', 'Limbo', 'StartForce', 'coolearth',

'Yield Software', 'Tapulous', 'Codefast', 'Hyperic', 'iPling :))',  
'Intacct', 'Vivaty', 'Aurora Biofuels', 'eEye', 'AllBusiness.com',  
'InsideView', 'Clickability', 'Keibi Technologies', 'RoboDynamics',  
'ImageSpan', 'Solarflare', 'Clupedia', 'Zigabid', 'InThrMa',  
'Webaroo', 'Fluid Entertainment', 'Unisfair', 'ON24', 'trueAnthem',  
'Colizer', 'Coremetrics', 'Minted', 'Appirio', 'samfind', 'Eye-Fi',  
'ResponseLogix', 'Qumu', 'CarbonFlow', 'Allvoices', 'Moxsie',  
'Service-now.com', 'Anvato', 'Vantage Media',  
'Entone Technologies', '750 Industries', 'Plastic Logic', 'Paymo',  
'Brilliant Telecom', 'SkyGrid', 'Intense Debate',  
'Associated Content', 'madKast', 'EventVue', 'Socialthing!',  
'J Squared Media', 'Search to Phone', 'Filtrbox', 'Brightkite',  
'NewsGator', 'Me.dium', 'Buzzwire', 'HiveLive', 'XAware', 'Lijit',  
'hubbuzz', 'Gnip', 'Collective Intellect', 'Rally Software',  
'Symplified', 'Indeed', 'Geezeo', 'Entrecard', 'AmericanTowns.com',  
'Kayak', 'GoCrossCampus', 'Health Plan One', 'Your Survival',  
'Media Lantern', 'GridPoint', 'HotPads', 'LaunchBox', 'Cogent',  
'SwapDrive', 'Searchles', 'PayPerPost', 'Affinity Internet',  
'Multiply', 'Revolution Money', 'Batanga', 'divorce360',  
'Infinity Box', 'MOLI', 'Global Roaming', 'Slingpage', 'WrapMail',  
'eJamming', 'Lehigh Technologies', 'TournEase', 'Vittrue',  
'Screaming Sports', 'beRecruited', 'MFG', 'Scintella Solutions',  
'ScribeStorm', 'Balihoo', 'Info', 'FeedBurner', 'Viewpoints',  
'GrubHub', 'TicketsNow', 'The Point', 'Inkling', 'crowdSPRING',  
'Ifbyphone', 'Fave Media', 'Accertify', 'Firefly Energy', 'SAVO',  
'ChaCha', 'Better World Books', 'Compendium Blogware',  
'Instagarage', 'iSkoot', 'Gotuit Media', 'Carbonite', 'ScanScout',  
'Going', 'Brightcove', 'PermissionTV', 'Bountii', 'Conduit Labs',  
'ZoomInfo', 'Vlingo', 'Vtap', 'MocoSpace', 'Quattro Wireless',  
'Care.com', 'OnForce', 'RatePoint', 'UpDown', 'Eons', 'GamerDNA',  
'Mix & Meet', 'Sermo', 'WorkLight', 'MatchMine', 'CondoDomain',  
'uTest', 'Compete', 'Azuki Systems', 'Acinion', 'xkoto', 'HubSpot',  
'Utterz', 'Intronis', 'Acquia', 'A123Systems', 'Boston Power',  
'Visible Measures', 'Endeca', 'ChoiceStream', 'YouCastr',  
'JackPot Rewards', 'Mzinga', 'Dimdim', 'utoopia',  
'Retail Convergence', 'Frame Media', 'Turbine', 'Zeer',  
'SimpleTuition', 'Sirtris Pharmaceuticals', 'Good Data',  
'Navic Networks', 'Pivot', 'Optaros', 'Astaro', 'Pangea Media',  
'Posterous', 'Spire', 'neoSaej', 'GenArts', 'OrderMotion',  
'HAM-IT', 'Freewebs', 'MPTrax', 'JackBe', 'ZeniMax',  
'Intelliworks', 'HEXIO', 'Foneshow', 'Zattoo', 'LoudClick',  
'Agilis Systems', 'International Liars Poker Association',  
'ChannelAdvisor', 'Yap', 'PrepChamps', 'SilkRoad technology',  
'BrightDoor Systems', 'DriftToIt', 'rPath', 'Ntractive',  
'Bill Me Later', 'AdaptiveBlue', 'Phanfare', 'EnterpriseDB',  
'Neocleus', 'Datapipe', 'Switch2Health', 'Voltaix', 'SpaBoom',  
'Novint', 'MeetMoi', 'Meetup', 'Mogulus', 'Pando', 'Outside.in',  
'SelectMinds', 'Veotag', 'KIT digital', 'ContextWeb',  
'Datran Media', 'Eyeblaster', 'Covestor', 'Global Grind',  
'Heavy.com', 'SpiralFrog', 'Broadband Enterprises', 'Thumbplay',  
'Waterfront Media', 'Tutor', 'Daylife', 'Teach The People',  
'OrganizedWisdom', 'Snooth', '5min', 'Kaltura', 'Mimeo', 'RayV',  
'Tumblr', 'Payoneer', 'eXelate', 'Quigo', 'Peer39', 'Rebel Monkey',  
'Answers Corporation', 'SeeToo', 'drop.io', 'Motionbox',  
'DGP Labs', 'Ideeli', 'Live Gamer', 'WeShow', 'Etsy', 'PhoneTag',  
'Tremor Media', 'YooNew', 'Fifth Generation Systems',  
'IGA Worldwide', 'TheLadders', 'Adotube', 'Kluster',  
'Blog Talk Radio', 'Pingg', 'Outbrain', 'Mochila', 'OLX', 'Boonty',  
'Tripology', 'The Feedroom', 'Next New Networks', 'RiverWired',  
'Fynanz', 'Digital Railroad', 'Silicon Alley Insider',  
'Undertone Networks', 'Someecards', 'Trunkt', 'Cutcaster',  
'Visible World', 'Mad Mimi', 'Social Median', 'Scanbuy',  
'Pontiflex', 'CHIC.TV', 'ExpertFlyer', 'x+1', 'MediaGj', 'Knewton',  
'Sense Networks', 'TargetSpot', 'BountyJobs', 'vbs tv',  
'Instinctiv', 'VISUALPLANT', 'XunLight', 'Strands',

```
'Jive Software', 'Platial', 'GarageGames', 'iovation', 'InGrid',
'Sleep.FM', 'Boomi', 'Styky', 'TotalTakeout', 'RedLasso',
'QponDirect', 'EnergyWeb Solutions', 'Aria Systems', 'Viv'simo',
>ShowClix', 'BioWizard', 'TicketLeap', 'Tizra', 'Quickoffice',
'Thoof', 'Bazaarvoice', 'Small World Labs', 'Pluck', 'Spiceworks',
'SpendView', 'Shangby', 'On Networks', 'CareFlash', 'HelioVolt',
'Challenge Games', 'Woot', 'Mumboe', 'BreakingPoint Systems',
'FameCast', 'Click Forensics', 'GodTube', 'iBiz Software',
'Cosential', 'JAD Tech Consulting', 'Mozy', 'Ancestry.com',
'Move Networks', 'World Vital Records', 'Bungee Labs', 'Footnote',
'mediaFORGE', 'TeamStreamz', 'Exinda', 'Clearspring',
'Avail Media', 'FortiusOne', 'Mixx', 'Jobfox', 'HealthCentral',
'comScore', 'VisualCV', 'Paxfire', 'ShoutWire', 'Parature',
'Loladex', 'Appian', 'Fortisphere', 'Wetpaint', 'Jobster', 'Yapta',
'Farecast', 'Haute Secure', 'Newsvine', 'iLike', 'Redfin',
>Action Engine', 'Wishpot', 'PayScale', 'BuddyTV', 'Judys Book',
'Sampa', 'Zango', 'Cdix', 'Ripl', 'EyeJot', 'FlowPlay',
'SmartSheet', 'Visible Technologies', 'Zillow', 'SEOMoz',
'DocuSign', 'AdReady', 'Treemo', 'GridNetworks', 'Pelago', 'Blist',
'RealSelf', 'RescueTime', 'Zoji', 'Snapvine', 'Jott',
'Earth Class Mail', 'Smilebox', 'Fyreball', 'Delve Networks',
'LiveMocha', 'Mercent Corporation', 'CleverSet', 'LiquidPlanner',
'Limeade', 'Yodio', 'Tastemakers', 'WhitePages.com',
'RevenueScience', 'GotVoice', 'CarDomain Network', 'mpire',
'TeachStreet', 'Estateley', 'Infinia', 'M:Metrics', 'Cozi',
'Trusera', 'Alerts.com', 'Myrio', 'Grid Networks'], dtype=object)
```

In [33]: # no of raisedAmt in datasheet  
TechCrunchcontinentalUSA\_df['raisedAmt'].max()

Out[33]: 3000000000

In [48]: import matplotlib.pyplot as plt  
# graph plotting

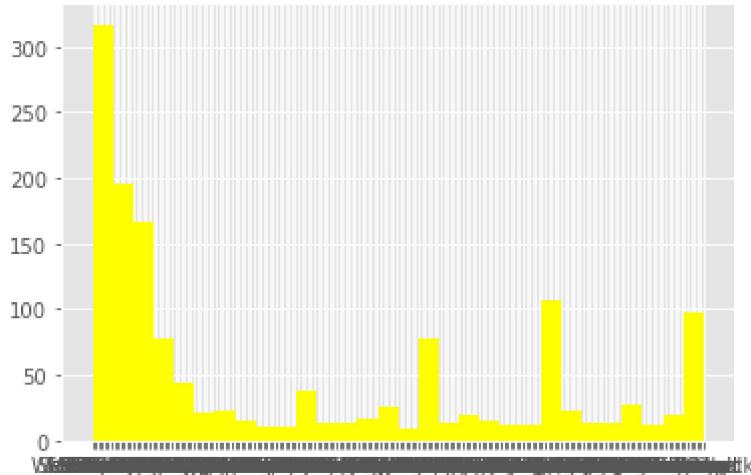
In [49]: # data visualization of company by histogram  
plt.hist(TechCrunchcontinentalUSA\_df['company'], bins=30)

Out[49]: (array([68., 55., 63., 58., 56., 57., 49., 40., 45., 43., 60., 44., 42.,
51., 38., 42., 39., 42., 50., 42., 51., 57., 45., 48., 50., 35.,
48., 43., 58., 41.]),
array([
 0. , 30.26666667, 60.53333333, 90.8 , 121.06666667, 151.33333333, 181.6 , 211.86666667,
 242.13333333, 272.4 , 302.66666667, 332.93333333,
 363.2 , 393.46666667, 423.73333333, 454. , 484.26666667, 514.53333333, 544.8 , 575.06666667,
 605.33333333, 635.6 , 665.86666667, 696.13333333,
 726.4 , 756.66666667, 786.93333333, 817.2 , 847.46666667, 877.73333333, 908. ]),
<BarContainer object of 30 artists>)

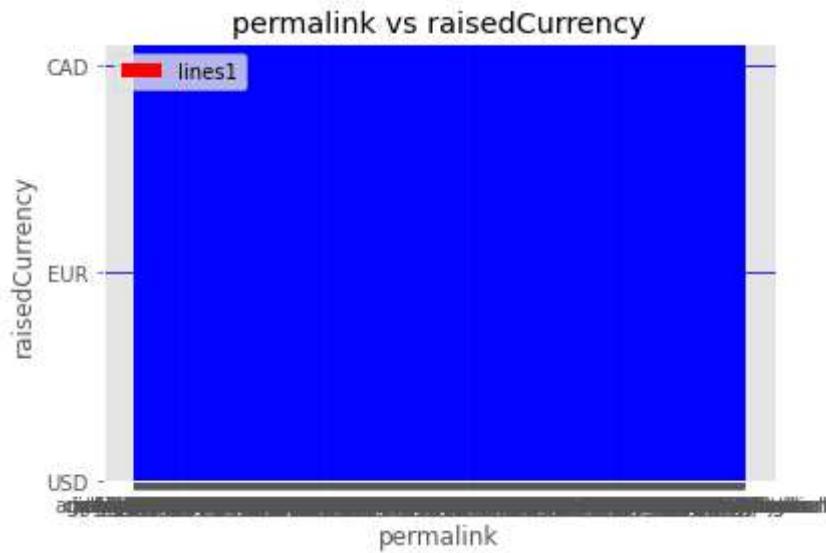


```
In [50]: # # data visualization of city by histogram
plt.hist(TechCrunchcontinentalUSA_df['city'],bins=30,color='yellow')
```

```
Out[50]: (array([317., 196., 167., 78., 44., 21., 22., 15., 10., 10., 38.,
       13., 14., 17., 25., 9., 78., 14., 19., 15., 12., 12.,
       107., 23., 14., 14., 28., 12., 19., 97.]),
array([ 0.          ,  6.43333333, 12.86666667, 19.3        ,
       25.73333333, 32.16666667, 38.6        , 45.03333333,
       51.46666667, 57.9        , 64.33333333, 70.76666667,
       77.2        , 83.63333333, 90.06666667, 96.5        ,
      102.93333333, 109.36666667, 115.8        , 122.23333333,
      128.66666667, 135.1        , 141.53333333, 147.96666667,
      154.4        , 160.83333333, 167.26666667, 173.7        ,
      180.13333333, 186.56666667, 193.        ]),
<BarContainer object of 30 artists>)
```



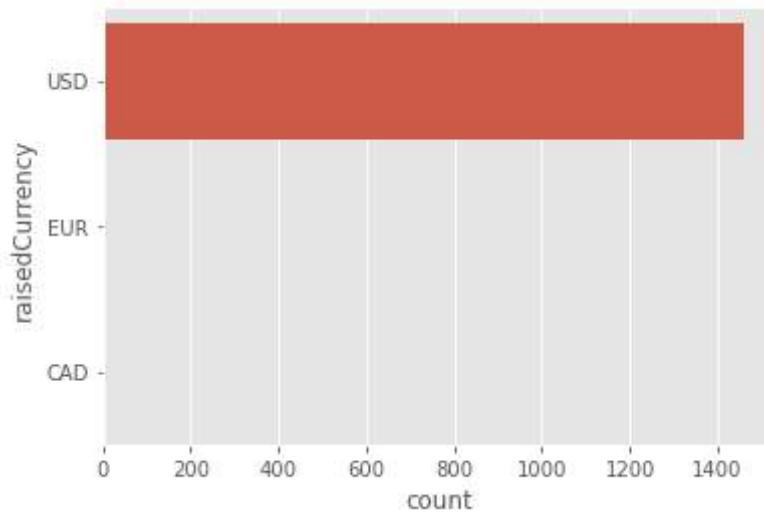
```
In [51]: from matplotlib import style
style.use('ggplot')
x=TechCrunchcontinentalUSA_df['permalink']
y=TechCrunchcontinentalUSA_df['raisedCurrency']
plt.bar(x,y,label='lines1',linewidth=20,color='red')
plt.title('permalink vs raisedCurrency')
plt.xlabel('permalink')
plt.ylabel('raisedCurrency')
plt.legend()
plt.grid(True,color='blue')
plt.show()
```



```
In [52]: import seaborn as sb  
import matplotlib.pyplot as plt
```

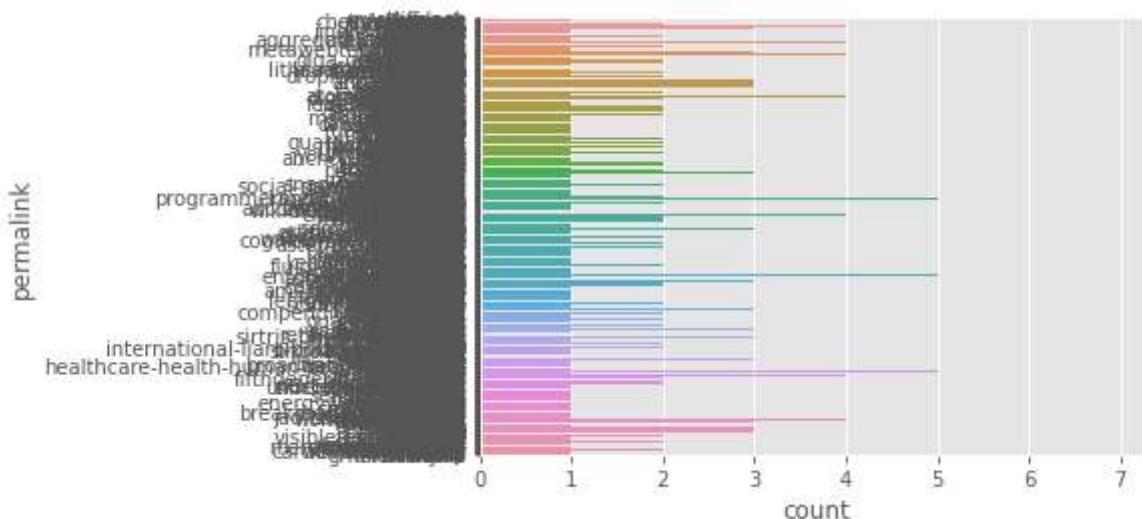
```
In [53]: # sb --> seaborn --lib  
sb.countplot(y='raisedCurrency', data=TechCrunchcontinentalUSA_df)
```

```
Out[53]: <AxesSubplot:xlabel='count', ylabel='raisedCurrency'>
```



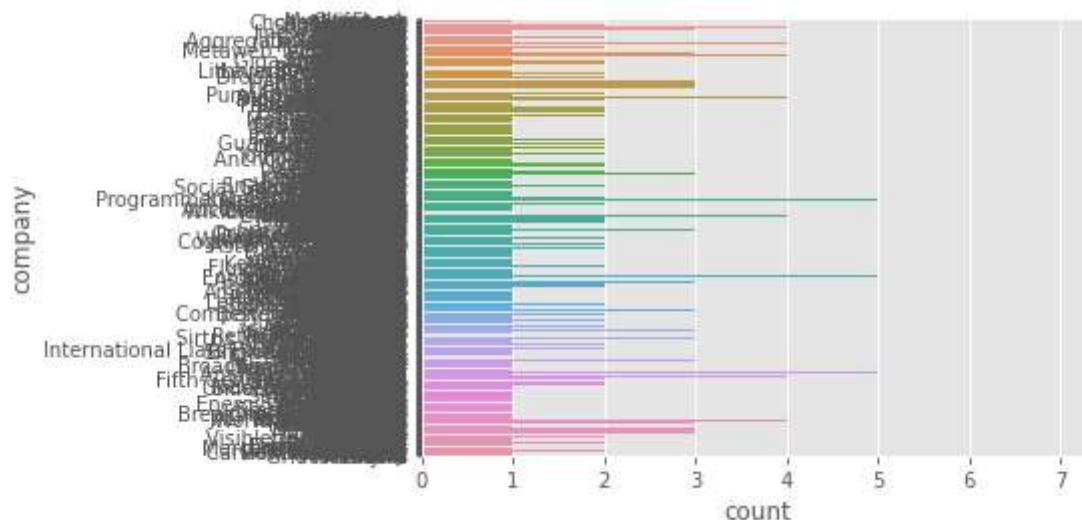
```
In [54]: sb.countplot(y='permalink', data=TechCrunchcontinentalUSA_df)
```

```
Out[54]: <AxesSubplot:xlabel='count', ylabel='permalink'>
```



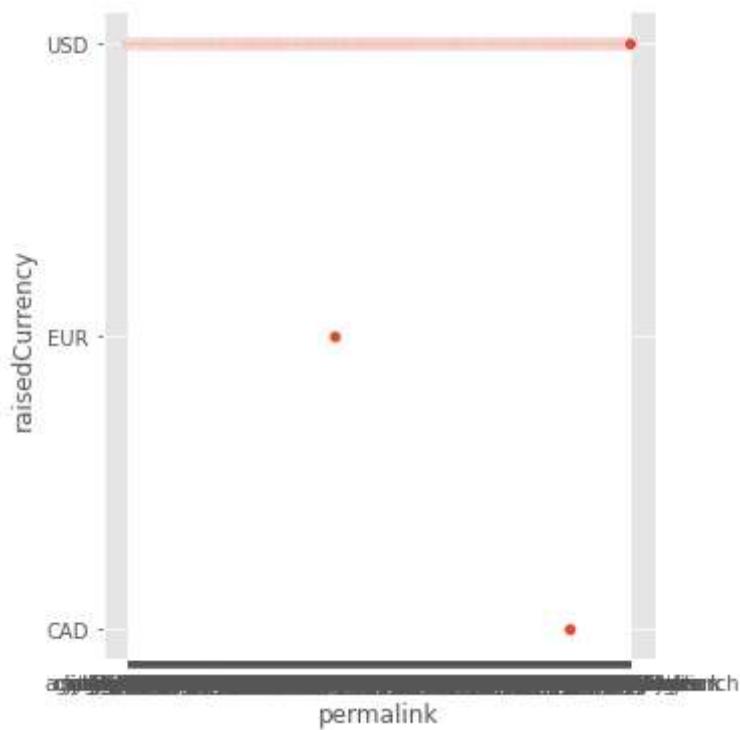
```
In [55]: sb.countplot(y='company', data=TechCrunchcontinentalUSA_df)
```

```
Out[55]: <AxesSubplot:xlabel='count', ylabel='company'>
```



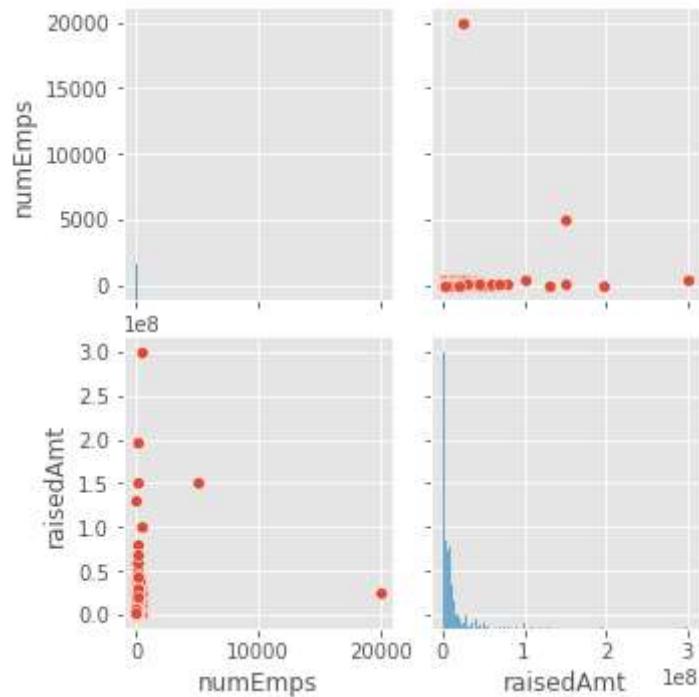
```
In [56]: # scatterplot
sb.relplot(x='permalink', y='raisedCurrency', data=TechCrunchcontinentalUSA_df)
```

```
Out[56]: <seaborn.axisgrid.FacetGrid at 0x92645b0>
```



```
In [57]: sb.pairplot(TechCrunchcontinentalUSA_df)
```

```
Out[57]: <seaborn.axisgrid.PairGrid at 0xc655b38>
```



```
In [ ]:
```