CYNCLY TECHNICAL INTERVIEW

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12 February 2024

FIRST STEPS

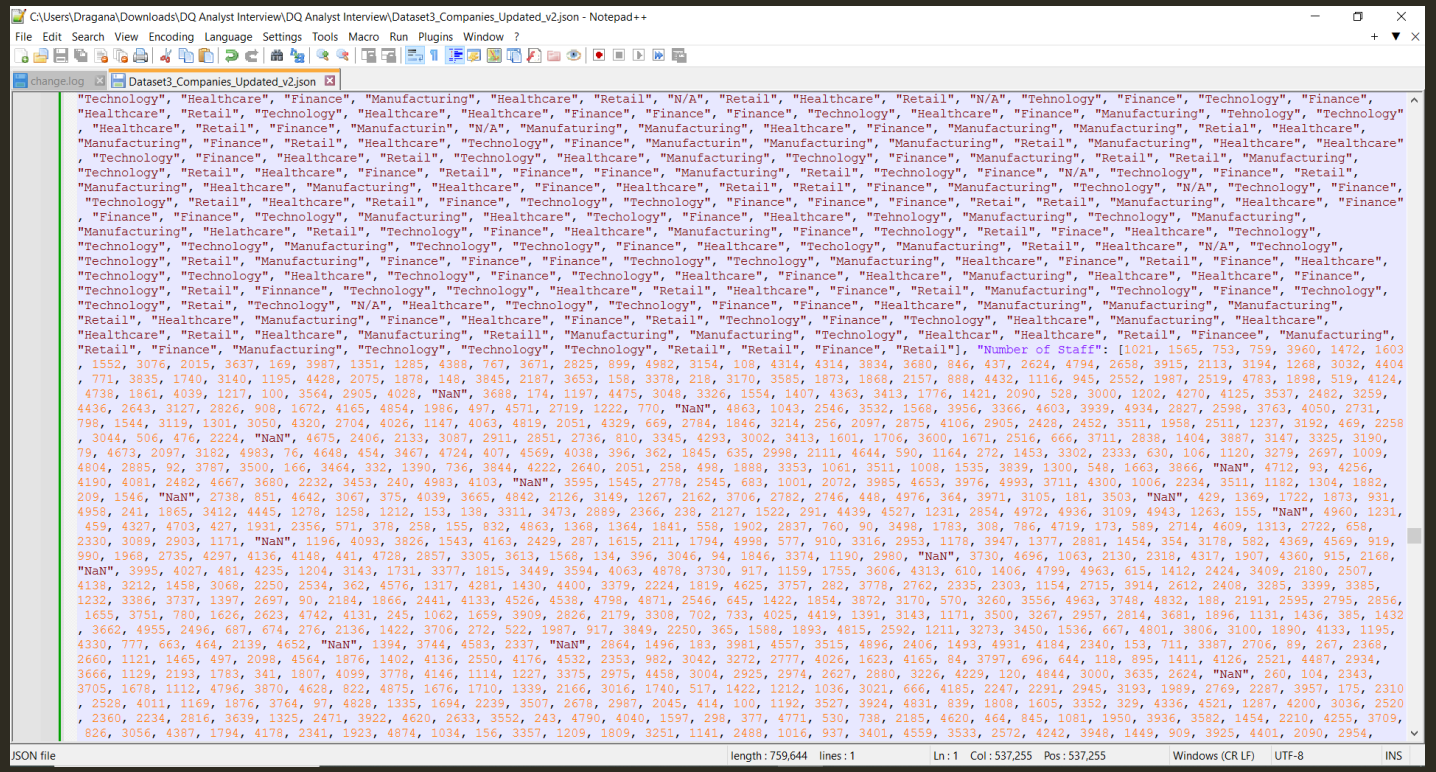
Three datasets: xlsx, csv, json

csv & json – convert all to xlsx

json – missing quotation marks

Excel Power Query

Create Copies of all xlsx



GETTING TO KNOW THE DATA

Dataset 1 Columns	Dataset 2 Columns	Dataset 3 Columns
Company Name	Name of Company	Corporation
Headquarters Address	Country of Headquarters	Main Office Location
Industry Sector	Industry	Industry Category
Website URL	Website	Website
Number of Employees	Employee Count	Number of Staff
Year Founded	Founding Year	Establishment Year
Revenue (USD)	Market Cap (USD)	Annual Sales (USD)
	CEO Name	Operating Income (USD)
		Number of Offices Worldwide

QUESTIONS I WOULD ASK

1. Are the companies in this list leads, companies we work with, companies we have worked with in the past?

2. The Company Name and Website URL are missing in some cases. I would prefer to delete as they lack basic crucial information, however the following gives me pause: *"Describe a strategy to deal with missing information in critical fields like 'Number of Employees' or 'Revenue (USD)'."*

Would deleting these rows be acceptable?

3. "Given the datasets contain information about company revenues and the number of employees, can you calculate and analyze the average revenue per employee across different industries?"

Dataset 1 contains information about company revenues.

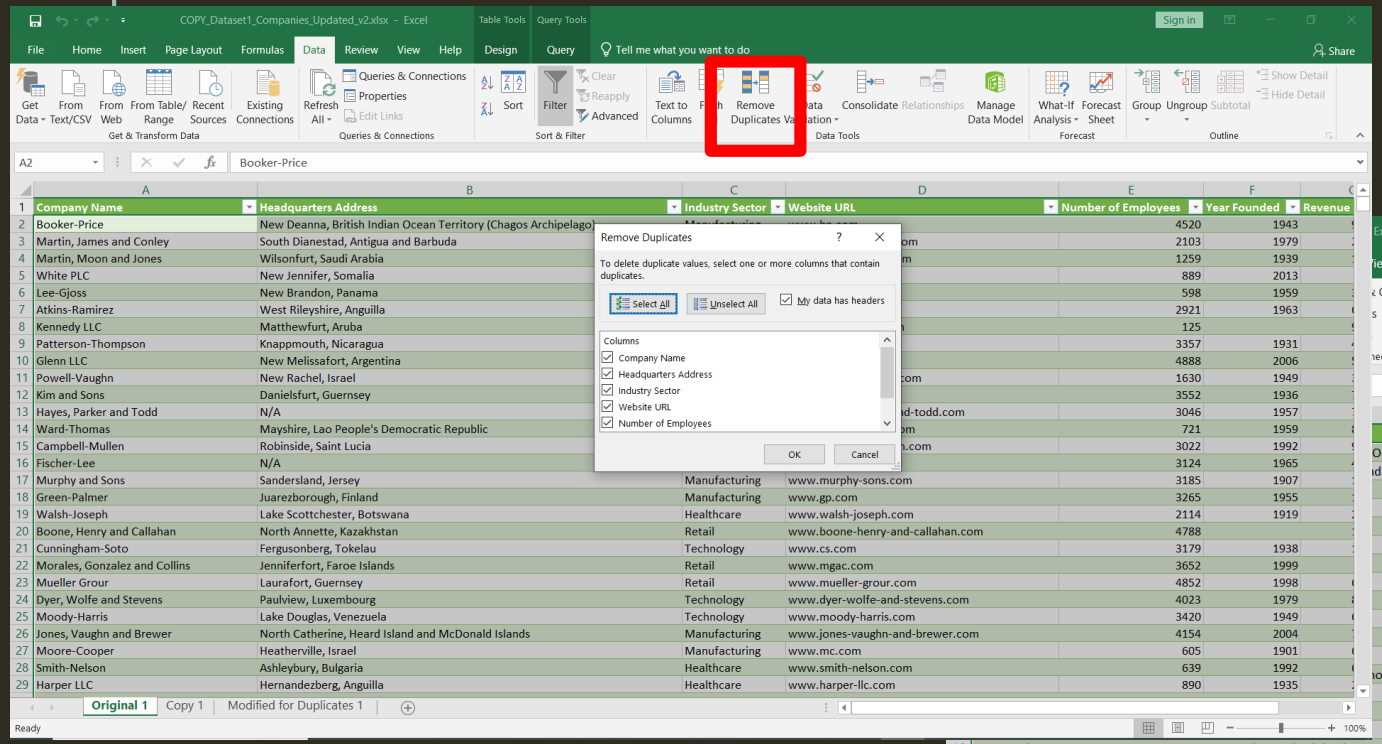
Dataset 2 contains Market Cap data which cannot be used to calculate revenue.

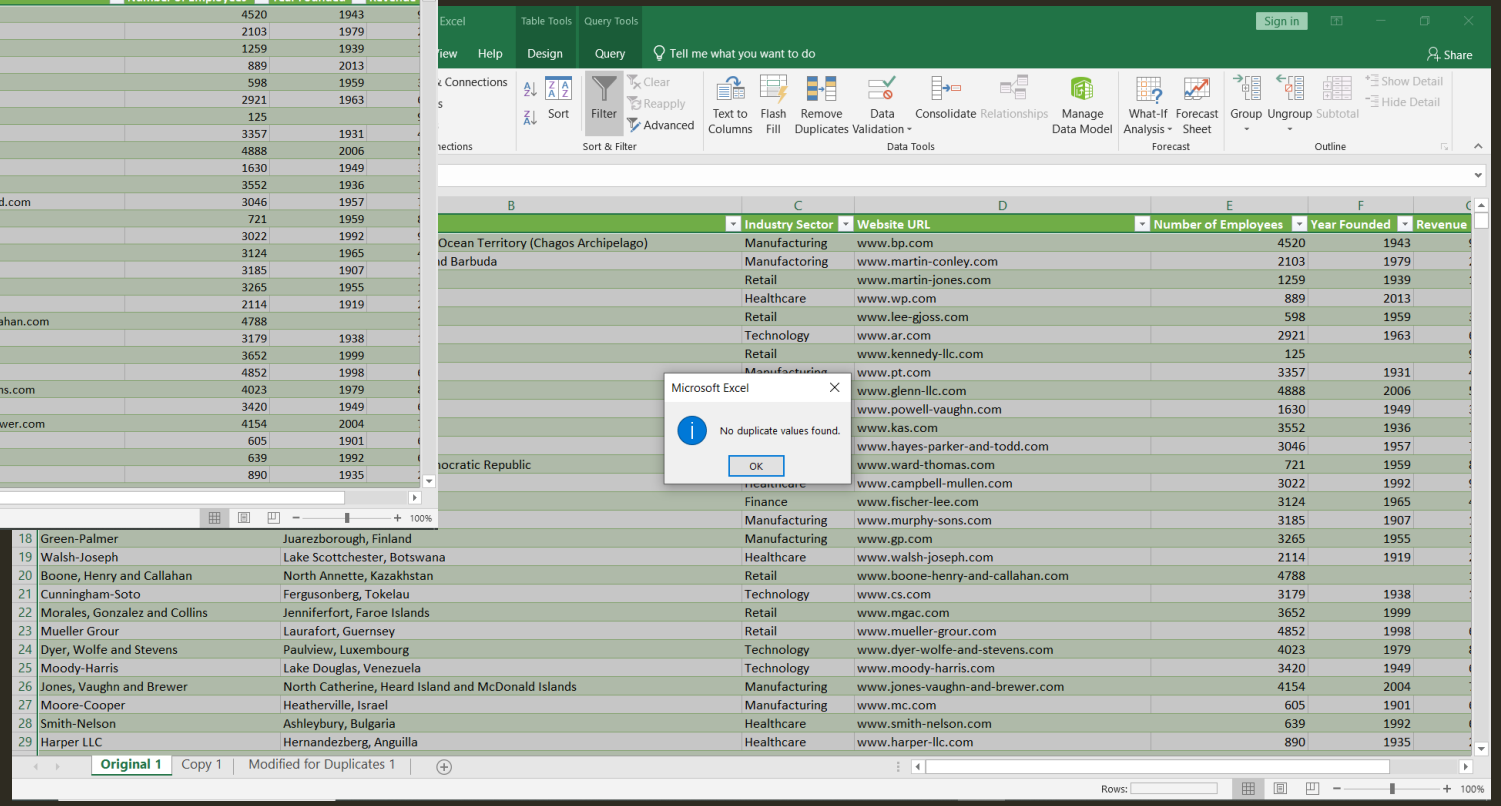
Dataset 3 can we assume that Annual Sales can be interchangeable with Revenue?

CLEANING DATASETS INDIVIDUALLY

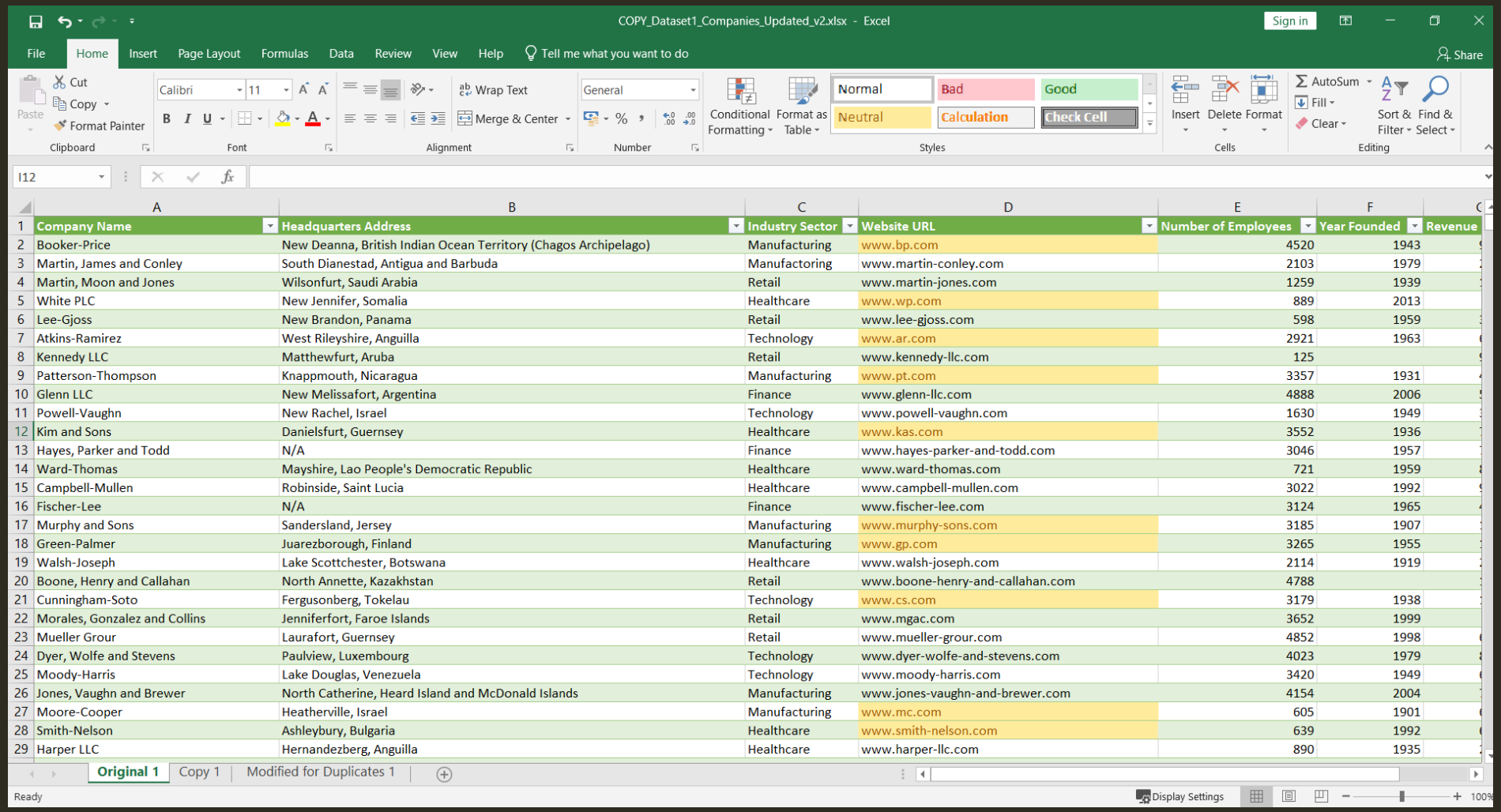
12 February 2024

CHECKING FOR DUPLICATES WITHIN DATASETS





UNIQUE FIELD – URLS



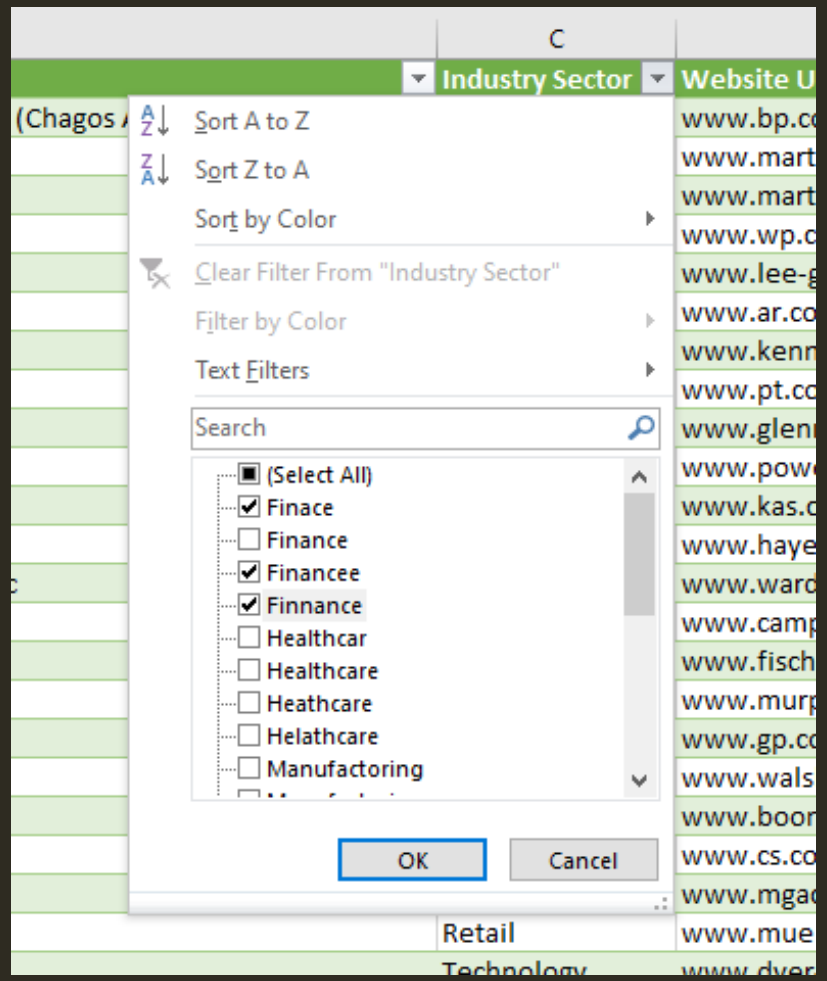
COPY_Dataset1_Companies_Updated_v2.xlsx - Excel

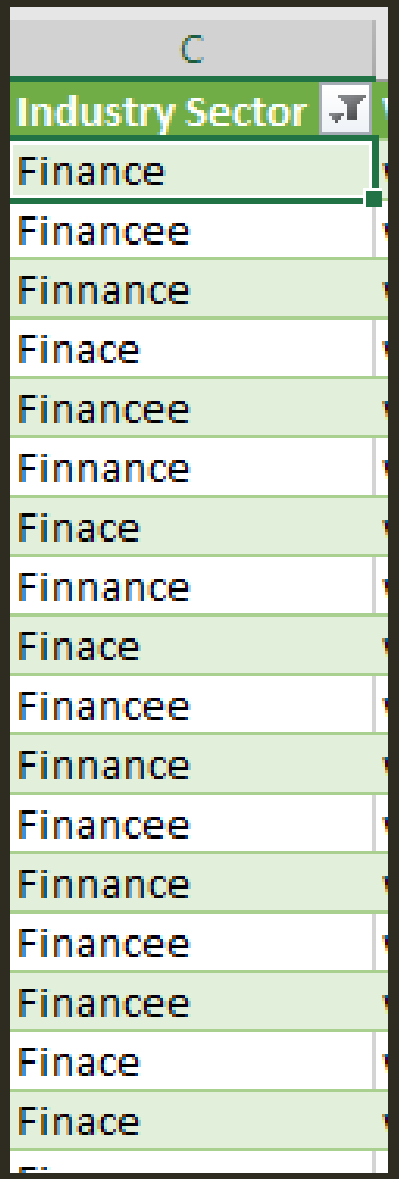
Company Name	Headquarters Address	Industry Sector	Website URL	Number of Employees	Year Founded	Revenue
Booker-Price	New Deanna, British Indian Ocean Territory (Chagos Archipelago)	Manufacturing	www.bp.com	4520	1943	
Martin, James and Conley	South Dianestad, Antigua and Barbuda	Manufactoring	www.martin-conley.com	2103	1979	
Martin, Moon and Jones	Wilsonfurt, Saudi Arabia	Retail	www.martin-jones.com	1259	1939	
White PLC	New Jennifer, Somalia	Healthcare	www.wp.com	889	2013	
Lee-Gjoss	New Brandon, Panama	Retail	www.lee-gjoss.com	598	1959	
Atkins-Ramirez	West Rileyshire, Anguilla	Technology	www.ar.com	2921	1963	
Kennedy LLC	Matthewfurt, Aruba	Retail	www.kennedy-llc.com	125		
Patterson-Thompson	Knappmouth, Nicaragua	Manufacturing	www.pt.com	3357	1931	
Glenn LLC	New Melissafort, Argentina	Finance	www.glenn-llc.com	4888	2006	
Powell-Vaughn	New Rachel, Israel	Technology	www.powell-vaughn.com	1630	1949	
Kim and Sons	Danielsfurt, Guernsey	Healthcare	www.kas.com	3552	1936	
Hayes, Parker and Todd	N/A	Finance	www.hayes-parker-and-todd.com	3046	1957	
Ward-Thomas	Mayshire, Lao People's Democratic Republic	Healthcare	www.ward-thomas.com	721	1959	
Campbell-Mullen	Robinside, Saint Lucia	Healthcare	www.campbell-mullen.com	3022	1992	
Fischer-Lee	N/A	Finance	www.fischer-lee.com	3124	1965	
Murphy and Sons	Sandersland, Jersey	Manufacturing	www.murphy-sons.com	3185	1907	
Green-Palmer	Juarezborough, Finland	Manufacturing	www.gp.com	3265	1955	
Walsh-Joseph	Lake Scottchester, Botswana	Healthcare	www.walsh-joseph.com	2114	1919	
Boone, Henry and Callahan	North Annette, Kazakhstan	Retail	www.boone-henry-and-callahan.com	4788		
Cunningham-Soto	Fergusonberg, Tokelau	Technology	www.cs.com	3179	1938	
Morales, Gonzalez and Collins	Jenniferfort, Faroe Islands	Retail	www.mgac.com	3652	1999	
Mueller Grour	Laurafort, Guernsey	Retail	www.mueller-grour.com	4852	1998	
Dyer, Wolfe and Stevens	Paulview, Luxembourg	Technology	www.dyer-wolfe-and-stevens.com	4023	1979	
Moody-Harris	Lake Douglas, Venezuela	Technology	www.moody-harris.com	3420	1949	
Jones, Vaughn and Brewer	North Catherine, Heard Island and McDonald Islands	Manufacturing	www.jones-vaughn-and-brewer.com	4154	2004	
Moore-Cooper	Heatherville, Israel	Manufacturing	www.mc.com	605	1901	
Smith-Nelson	Ashleybury, Bulgaria	Healthcare	www.smith-nelson.com	639	1992	
Harper LLC	Hernandezberg, Anguilla	Healthcare	www.harper-llc.com	890	1935	

~~UNIQUE FIELD — URLS~~

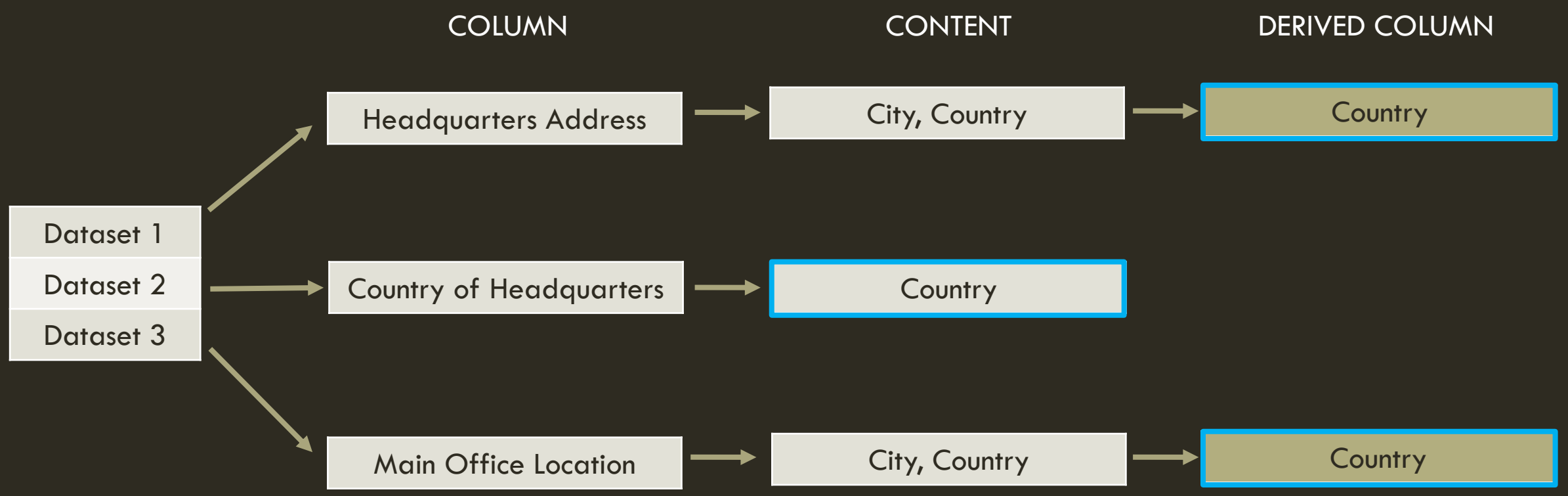
	A	B	C	D	E	F	G
1	Company Name	Headquarters Address	Industry Sector	Website URL	Number of Employees	Year Founded	Revenue (USD)
2	Booker-Price	New Deanna, British Indian Ocean Territory (Chagos Archipelago)	Manufacturing	www.bp.com	4520	1943	99623962
3	Bentley PLC	Hoffmanmouth, Congo	Finance	www.bp.com	4154	1924	21764093
4							
5							
6	Company Name	Headquarters Address	Industry Sector	Website URL	Number of Employees	Year Founded	Revenue (USD)
7	White PLC	New Jennifer, Somalia	Healthcare	www.wp.com	889	2013	7685196
8	Webster PLC	New Kevin, Norfolk Island	Retail	www.wp.com	536	1950	48921065
9							
10							
11	Company Name	Headquarters Address	Industry Sector	Website URL	Number of Employees	Year Founded	Revenue (USD)
12	N/A	Jenkinsport, Cayman Islands	Technology	N/A	1922	2012	87076344
13	N/A	West Patriciashire, Ethiopia	Healthcare	N/A	4962	2008	15153068
14	N/A	West Joshua, Panama	Healthcare	N/A	1870	1902	14419292
15							
16							
17							

INDUSTRY STANDARDIZED





DERIVED COUNTRY COLUMN: SETS 1 & 3



DERIVED COUNTRY COLUMN: SETS 1 & 3

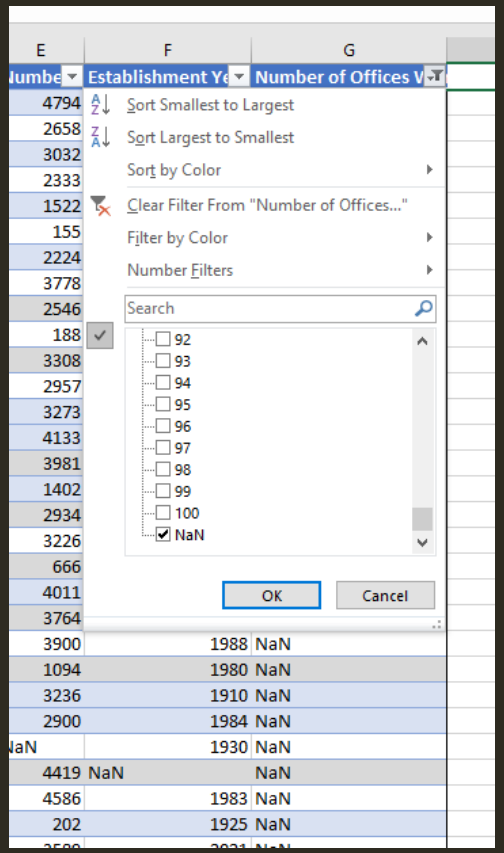
C2 | British Indian Ocean Territory (Chagos Archipelago)

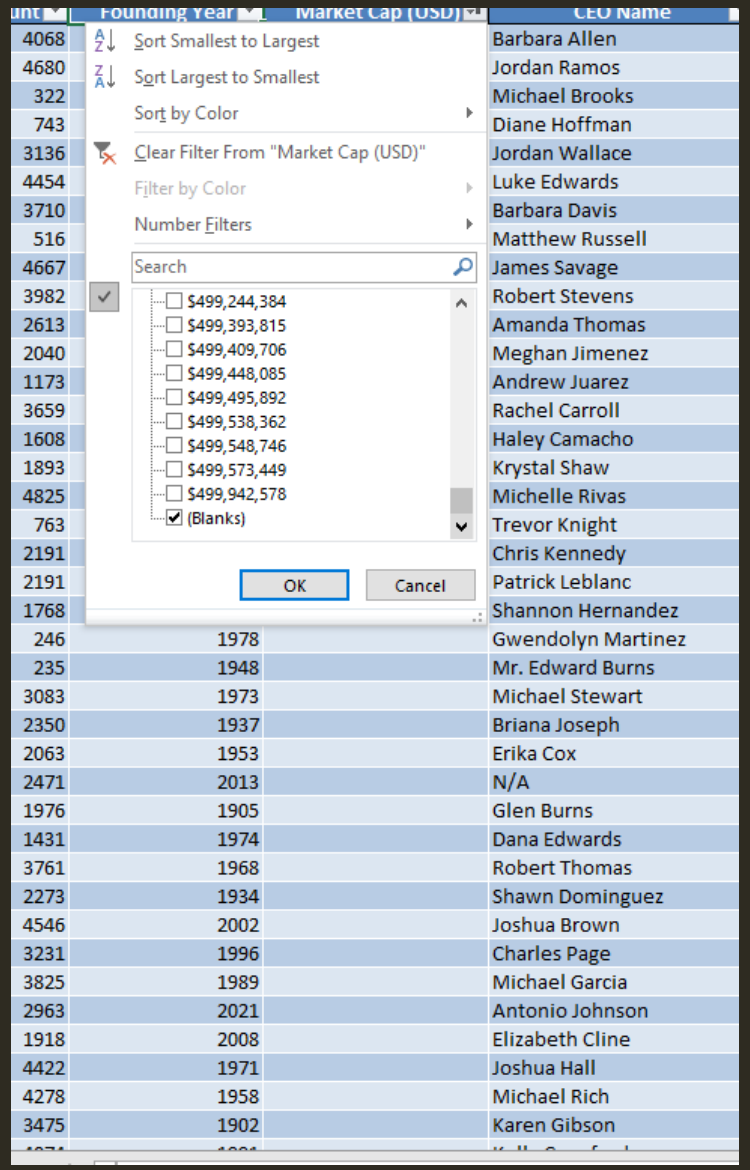
	A	B	C	D
1	Company Name	Headquarters Address	Country of Headquarters	Industry Sec
2	Booker-Price	New Deanna, British Indian Ocean Territory (Chagos Archipelago)	British Indian Ocean Territory (Chagos Archipelago)	Manufacturi
3	Martin, James and Conley	South Dianestad, Antigua and Barbuda	Antigua and Barbuda	Manufacturi
4	Martin, Moon and Jones	Wilsonfurt, Saudi Arabia	Saudi Arabia	Retail
5	White PLC	New Jennifer, Somalia	Somalia	Healthcare
6	Lee-Gjoss	New Brandon, Panama	Panama	Retail
7	Atkins-Ramirez	West Rileyshire, Anguilla	Anguilla	Technology
8	Kennedy LLC	Matthewfurt, Aruba	Aruba	Retail
9	Patterson-Thompson	Knappmouth, Nicaragua	Nicaragua	Manufacturi
10	Glenn LLC	New Melissafort, Argentina	Argentina	Finance
11	Powell-Vaughn	New Rachel, Israel	Israel	Technology
12	Kim and Sons	Danielsfurt, Guernsey	Guernsey	Healthcare
13	Hayes, Parker and Todd	N/A	N/A	Finance
14	Ward-Thomas	Mayshire, Lao People's Democratic Republic	Lao People's Democratic Republic	Healthcare
15	Campbell-Mullen	Robinside, Saint Lucia	Saint Lucia	Healthcare
16	Fischer-Lee	N/A	N/A	Finance
17	Murphy and Sons	Sandersland, Jersey	Jersey	Manufacturi
18	Green-Palmer	Juarezborough, Finland	Finland	Manufacturi
19	Walsh-Joseph	Lake Scottchester, Botswana	Botswana	Healthcare
20	Boone, Henry and Callahan	North Annette, Kazakhstan	Kazakhstan	Retail
21	Cunningham-Soto	Fergusonberg, Tokelau	Tokelau	Technology
22	Morales, Gonzalez and Collins	Jenniferfort, Faroe Islands	Faroe Islands	Retail

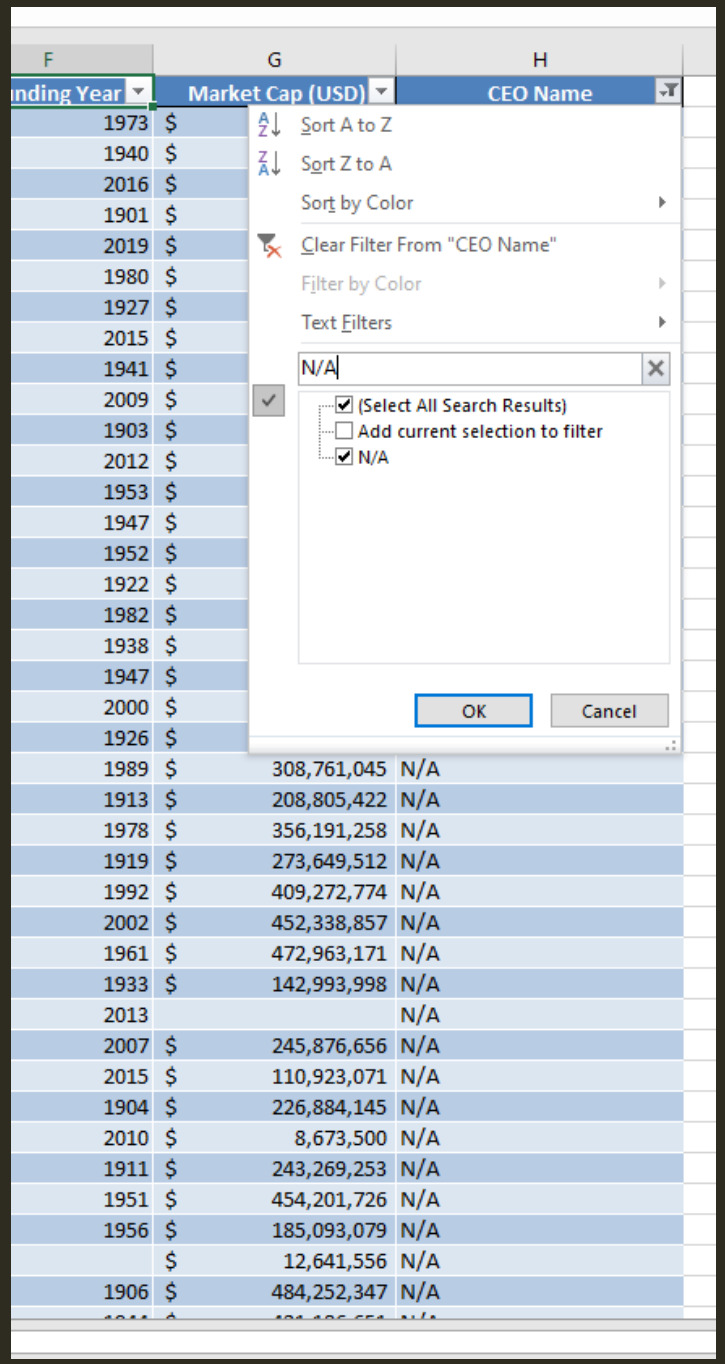
			C
			Country of Headquaraters
			Zambia
			Eritrea
			Barbados
			Mauritius
			Swaziland
7	Dudley-Richardson	Shawnview, Israel	Israel
8	Conteeras-Rogers	New Anne, Gabon	Gabon
9	Rios LLC	Reyesville, Turkmenistan	Turkmenistan
10	Lewis LLC	Port Davidville, Czech Republic	Czech Republic
11	Brooks-Holmes	New Charlestown, Cook Islands	Cook Islands
12	Morales, Guerra and Thomas	Courtneyburgh, Jordan	Jordan
13	Reed-Edwards	Tuckerbury, Cote d'Ivoire	Cote d'Ivoire
14	Butler, Schneider and Harris	New Katherineville, Saint Martin	Saint Martin
15	Turner-Walker	West Michaelburgh, French Polynesia	French Polynesia
16	Martinez, Williams and Ferguson	Mccoyton, China	China
17	Murray Ltd	Sandyborough, Israel	Israel
18	Anderson, Price and Mendez	N/A	N/A
19	Marquez, Phelps and Knight	Jonestown, Taiwan	Taiwan

MISSING DATA

Identifying "N/A“ and “NaN” entries and missing data:







HANDLING MISSING DATA

Numerical: “NaN” (Set 3) to NULL i.e. Blank Values.

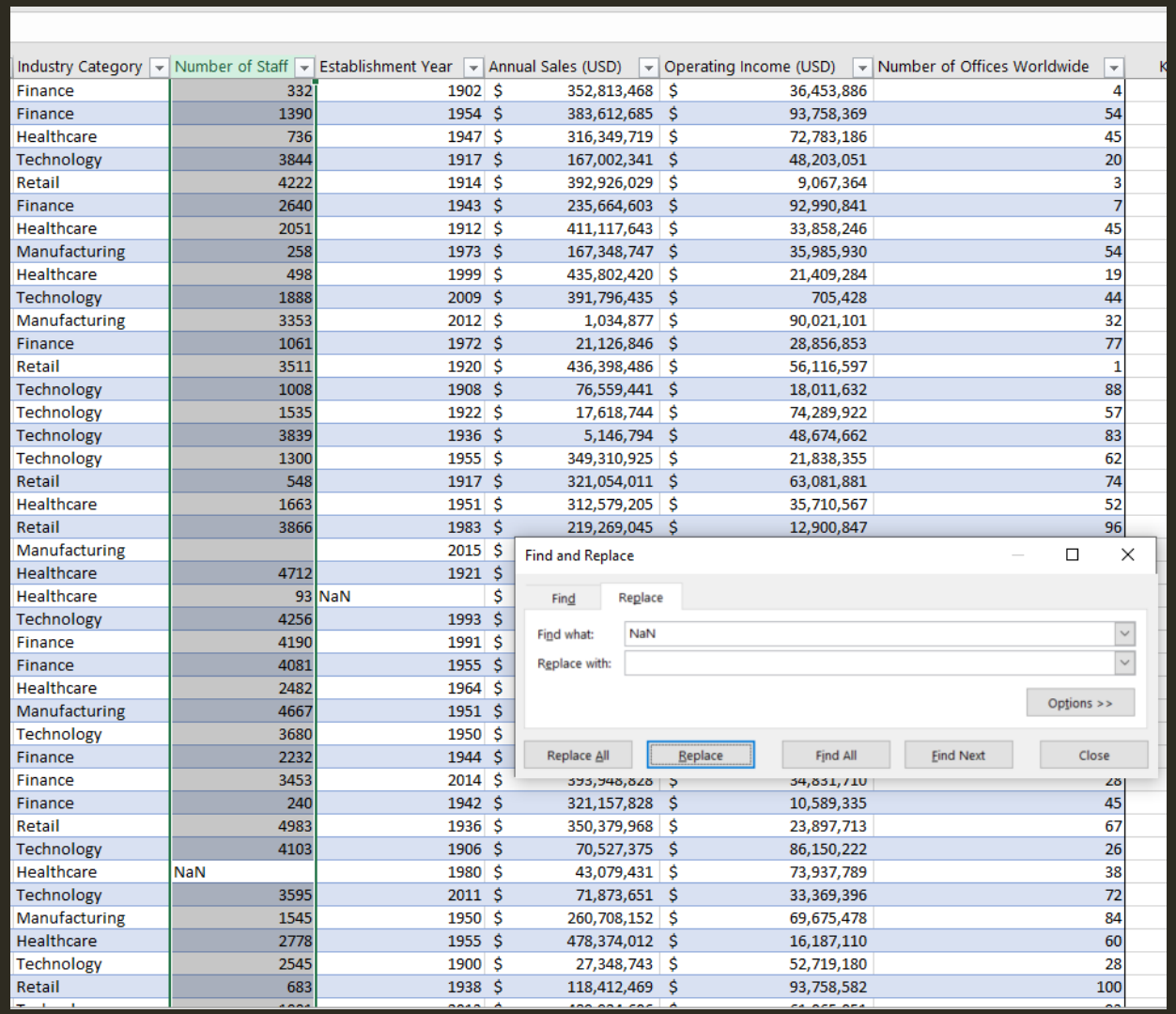
(Ctrl H.

Find NaN.

Replace with:

Replace All)

Text: “N/A” NULL i.e. Blank Values for all DataSets.



Industry Category	Number of Staff	Establishment Year	Annual Sales (USD)	Operating Income (USD)	Number of Offices Worldwide
Finance	332	1902	$ 352,813,468	$ 36,453,886	4
Finance	1390	1954	$ 383,612,685	$ 93,758,369	54
Healthcare	736	1947	$ 316,349,719	$ 72,783,186	45
Technology	3844	1917	$ 167,002,341	$ 48,203,051	20
Retail	4222	1914	$ 392,926,029	$ 9,067,364	3
Finance	2640	1943	$ 235,664,603	$ 92,990,841	7
Healthcare	2051	1912	$ 411,117,643	$ 33,858,246	45
Manufacturing	258	1973	$ 167,348,747	$ 35,985,930	54
Healthcare	498	1999	$ 435,802,420	$ 21,409,284	19
Technology	1888	2009	$ 391,796,435	$ 705,428	44
Manufacturing	3353	2012	$ 1,034,877	$ 90,021,101	32
Finance	1061	1972	$ 21,126,846	$ 28,856,853	77
Retail	3511	1920	$ 436,398,486	$ 56,116,597	1
Technology	1008	1908	$ 76,559,441	$ 18,011,632	88
Technology	1535	1922	$ 17,618,744	$ 74,289,922	57
Technology	3839	1936	$ 5,146,794	$ 48,674,662	83
Technology	1300	1955	$ 349,310,925	$ 21,838,355	62
Retail	548	1917	$ 321,054,011	$ 63,081,881	74
Healthcare	1663	1951	$ 312,579,205	$ 35,710,567	52
Retail	3866	1983	$ 219,269,045	$ 12,900,847	96
Manufacturing		2015	$		
Healthcare	4712	1921	$		
Healthcare	93	NaN	$		
Technology	4256	1993	$		
Finance	4190	1991	$		
Finance	4081	1955	$		
Healthcare	2482	1964	$		
Manufacturing	4667	1951	$		
Technology	3680	1950	$		
Finance	2232	1944	$		
Finance	3453	2014	$		
Finance	240	1942	$ 321,157,828	$ 10,589,335	45
Retail	4983	1936	$ 350,379,968	$ 23,897,713	67
Technology	4103	1906	$ 70,527,375	$ 86,150,222	26
Healthcare	NaN	1980	$ 43,079,431	$ 73,937,789	38
Technology	3595	2011	$ 71,873,651	$ 33,369,396	72
Manufacturing	1545	1950	$ 260,708,152	$ 69,675,478	84
Healthcare	2778	1955	$ 478,374,012	$ 16,187,110	60
Technology	2545	1900	$ 27,348,743	$ 52,719,180	28
Retail	683	1938	$ 118,412,469	$ 93,758,582	100

PATTERNS IN MISSING DATA?

All Datasets:

- When Company Name N/A, Website URL N/A (vice-versa).
- No obvious pattern:
  - Country
  - Industry
  - Founding Year
  - etc.

	A	B	C	D	E	F	G	H
1	Name of Company	Industry	Website	Country of Headquarters	Employee Count	Founding Year	Market Cap (USD)	CEO Name
2	N/A				3884	2021	$ 239,962,681	Debra Marshall
134	N/A				217	2020	$ 252,242,144	Cassandra Moore
139	N/A				456	2020	$ 432,866,078	William Greene
200	N/A				2333	2020	$ 421,606,048	Anthony Grant
201	N/A				2384	2020	$ 499,448,085	Jason Davis
257	N/A	Healthcare	N/A	Slovenia	3662	2017	$ 233,186,587	Joshua Rich
318	N/A	Retail	N/A	Saint Barthelemy	3094	2016	$ 337,072,259	David Holland
359	N/A	Manufacturing	N/A	Anguilla	3325	2015	$ 318,690,173	Jordan Garcia
367	N/A	Manufacturing	N/A	Equatorial Guinea	2014	2014	$ 353,896,894	Thomas Morgan
379	N/A	Retail	N/A	Afghanistan	317	2012	$ 261,308,568	Ryan Berger
394	N/A		A	Solomon Islands	450	2012	$ 209,832,228	Brady Nichols
522	N/A		A	Serbia	3156	2012	$ 313,748,347	Pamela Wade
593	N/A		A	Guam	3203	2011	$ 1,414,674	Heidi Williamson
657	N/A	Manufacturing	N/A	Mozambique	267	2010	$ 88,297,137	Steven Petersen
741	N/A						63,041,817	Carmen Reid MD
815	N/A						147,514,905	Michael Williams
822	N/A	Manufacturing	N/A	Reunion	1153	2006	$ 22,551,468	Bryan Holmes
963	N/A			Lebanon	1357	2006	$ 107,163,759	Douglas Webster
995	N/A			Guinea-Bissau	2020	2003	$ 297,427,526	Mary Dunn
1012	N/A			Solomon Islands	1323	2001	$ 370,806,590	Brett Valdez
1069	N/A	Healthcare	N/A	Austria	4251	2001	$ 232,686,769	Gabrielle Farrell
1102	N/A	F	A	Sao Tome and Principe	4172	1998	$ 257,108,380	Cynthia Hoover
1132	N/A	Healthcare	N/A	Uganda	4880	1997	$ 381,558,788	Chad Davila
1195	N/A	T	A	Sierra Leone	494	1995	$ 195,847,177	Carla Salas
1220	N/A	R	A	Ghana	4118	1995	$ 254,405,432	Robert Glenn
1225	N/A	Healthcare	N/A	Lithuania	128	1994	$ 146,878,751	Danielle Rodriguez
1239	N/A	T		Cook Islands	2548	1994	$ 312,768,514	Brooke Richard
1287	N/A	H		Solomon Islands	4547	1993	$ 355,141,364	Andre Scott
1379	N/A	N	N/A	Saint Barthelemy	2697	1992	$ 426,202,920	Kimberly Morris
1448	N/A	R	N/A	United Kingdom	1181	1990	$ 348,290,614	Bradley Yoder
1497	N/A	Finance	N/A	Solomon Islands	3994	1990	$ 115,712,730	William Sanders
1582	N/A	Manufacturing	N/A	Albania	4436	1989	$ 428,782,632	Rachel Dominguez
1631	N/A	Retail	N/A	Lesotho	1854	1988	$ 53,212,328	Robert Tyler
1693	N/A	Technology	N/A	Namibia	4632	1988	$ 302,089,425	Patrick Anderson
1711	N/A	Manufacturing	N/A	Ghana	1244	1987	$ 43,273,981	Joshua Vaughan
1774	N/A	Retail	N/A	Jamaica	691	1984	$ 129,094,328	John Hays
1784	N/A	Healthcare	N/A	Sierra Leone	772	1984	$ 247,820,269	Kristi Hartman
1967	N/A	Finance	N/A	Romania	2629	1984	$ 236,514,200	Kimberly Morse
1987	N/A	Retail	N/A	Iceland	3677	1984	$ 164,985,258	Michael Haney

MISSING DATA IN CRUCIAL FIELDS

Strategy to deal with missing information in critical fields like 'Number of Employees' or 'Revenue (USD)'.

ACCEPTING MISSING VALUES

Dataset is not overly large.*

Data seems to be missing at random.

Conservative.

WHY NOT DELETE?

May be the only information missing.

Need to answer which data do we consider most critical?

WHY NOT IMPUTE?

Does not make sense for this use case.

Avoids potential confusion and error in the future.

HANDLING INCONSISTENCIES

In case of different formats (not so much an issue here): e.g. fx = PROPER(C2)

In case of typos (Industries) – Slide 8

In case of typos (company names) – Harder to determine. Will explore more when merging.

(Ensuring data quality before merging)

MERGING THE DATASETS

Moving on to SQL

STANDARDIZING COLUMNS BETWEEN DATASETS BEFORE MERGING

Dataset 1 Columns	Dataset 2 Columns	Dataset 3 Columns
Company Name	Company Name	Company Name
Country of Headquarters	Country of Headquarters	Country of Headquarters
Industry	Industry	Industry
Website	Website	Website
Number of Employees	Number of Employees	Number of Employees
Year Founded	Year Founded	Year Founded
Revenue (USD)	Market Cap (USD)	Annual Sales (USD)
	CEO Name	Operating Income (USD)
		Number of Offices Worldwide

MERGING USING POWER QUERY & FUZZY MATCHING

Merged in PowerQuery, unfortunately no Fuzzy Matching option.

Upload data into Microsoft SQL Server to do merging and analysis there.

Fuzzy Matching – Couldn't manage as no key column(s)

UNION

All three datasets with NULL data = 18,975 rows.*

All three datasets only with rows where Company Name IS NOT NULL = 18,597**

(i.e. 378 rows without Company Name or Website or about 2% or the data.)

```
SELECT
 [Company Name]
,[Country of Headquarters]
,[Industry]
,[Website]
,[Number of Employees]
,[Year Founded]

FROM [dbo].['Modified for Merging 1A$']
WHERE [Company Name] IS NOT NULL

UNION

…

FROM [dbo].['Modified for Merging 3A$']
WHERE [Company Name] IS NOT NULL
ORDER BY [Company Name];
```

DATA ANALYSIS

DATA ANALYSIS QUESTIONS

1. How many unique companies are present in the merged dataset?

18,597

DATA ANALYSIS QUESTIONS

2. Which industry sector has the highest representation in the dataset?

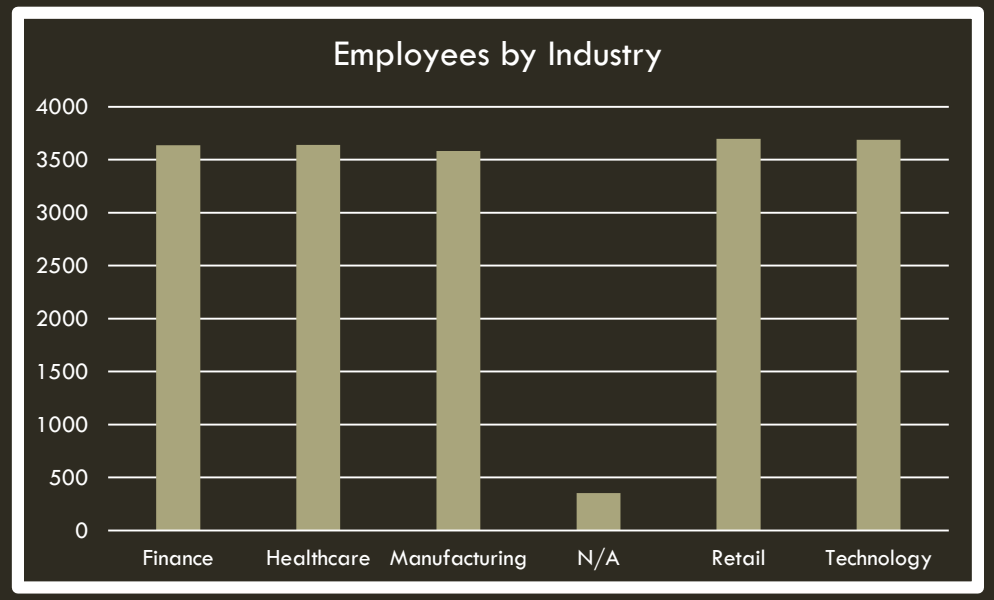
Retail - 3,697

Row Labels	Count of Industry
Finance	3637
Healthcare	3640
Manufacturing	3581
N/A	353
Retail	**3697**
Technology	3689

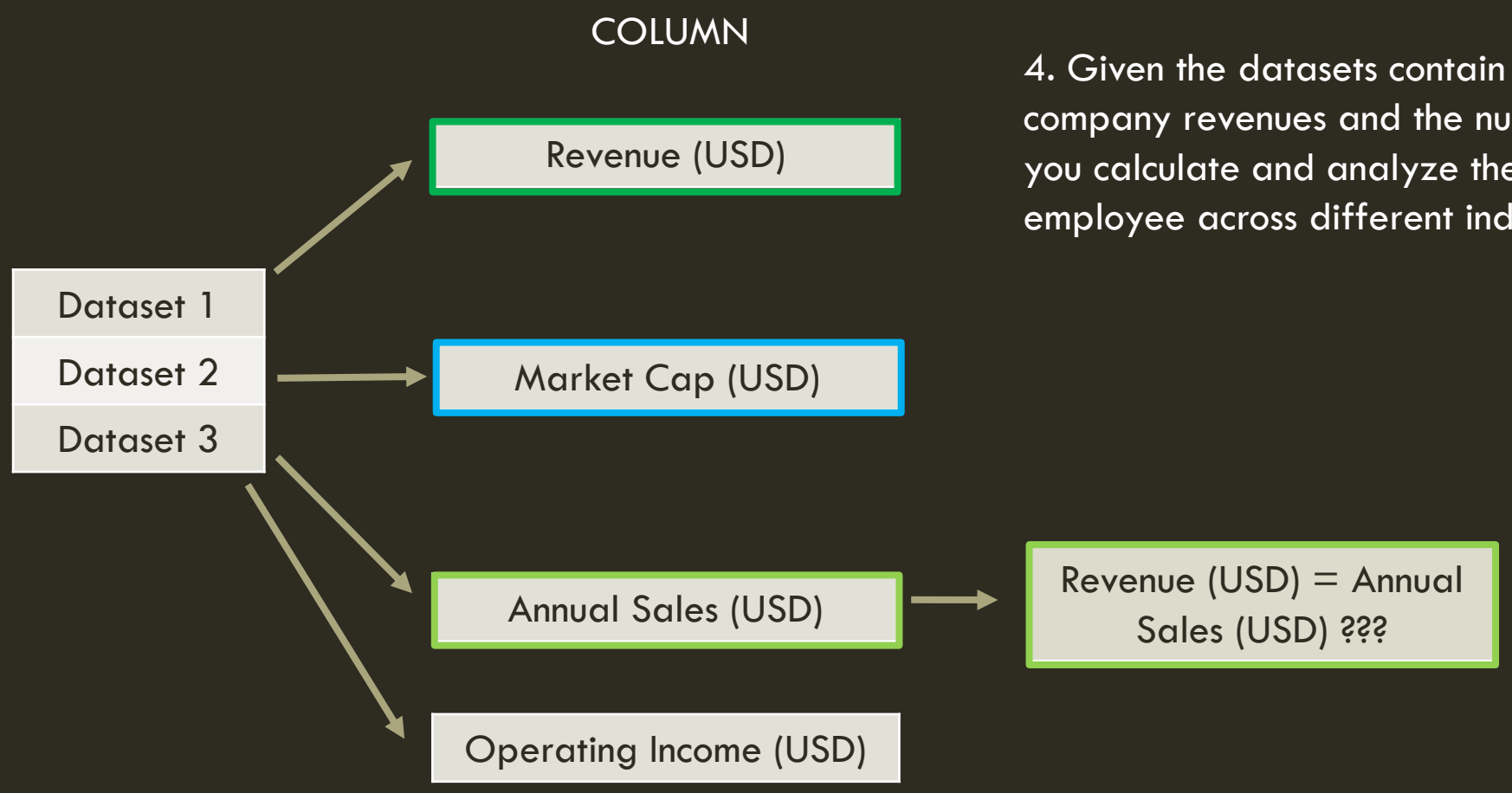
DATA ANALYSIS QUESTIONS

3. Can you identify any trends in the number of employees relative to the industry sector?

Row Labels	Sum of Number of Employees
Finance	8890165
Healthcare	9151254
Manufacturing	8693896
N/A	905476
Retail	9057566
Technology	9067927
Grand Total	45766284



LOOKING AT REVENUE



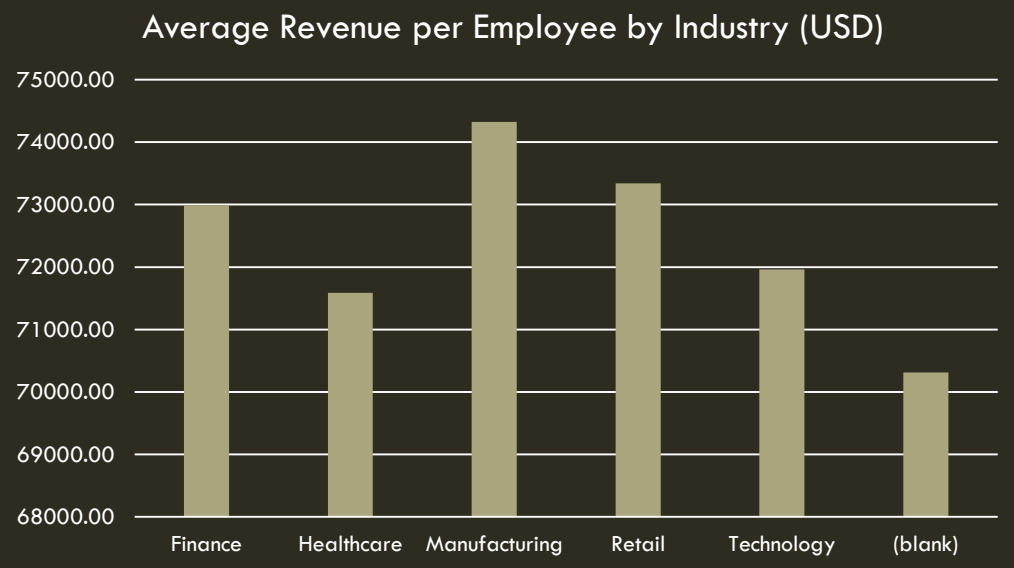
4. Given the datasets contain information about company revenues and the number of employees, can you calculate and analyze the average revenue per employee across different industries?

ASSUMING:
ALL THREE VALUES CORRESPOND TO REVENUE

Revenue (USD) | Market Cap (USD) | Annual Sales (USD)

Row Labels	Average Revenue per Employee (USD)
Finance	72988.34
Healthcare	71586.25
Manufacturing	74325.38
Retail	73338.64
Technology	71959.57
(blank)	70310.45

4. Given the datasets contain information about company revenues and the number of employees, can you calculate and analyze the average revenue per employee across different industries?



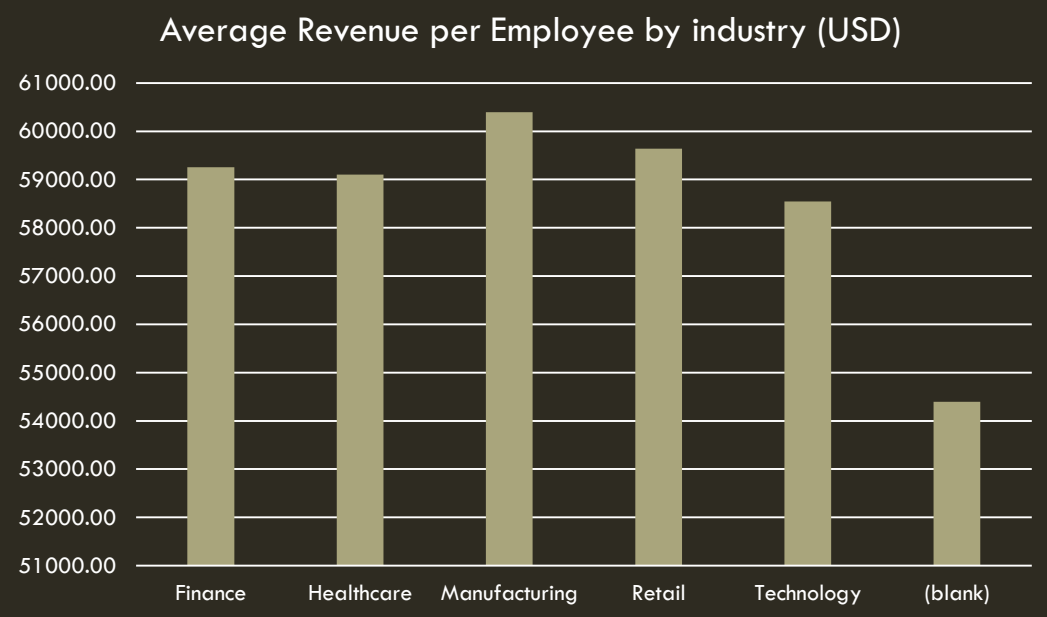
Revenue (USD)

Annual Sales (USD)

ASSUMING:
MARKET CAP CANNOT CORRESPOND TO REVENUE

Row Labels	Average Revenue per Employee (USD)
Finance	59252.06
Healthcare	59103.26
Manufacturing	60394.22
Retail	59639.25
Technology	58542.74
(blank)	54396.69

4. Given the datasets contain information about company revenues and the number of employees, can you calculate and analyze the average revenue per employee across different industries?

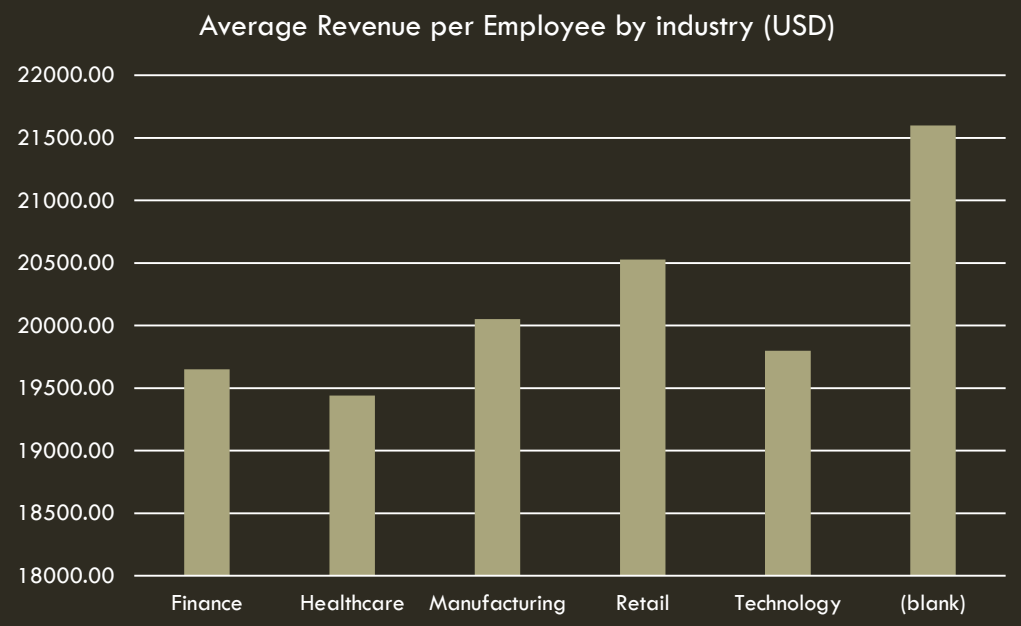


Revenue (USD)

ASSUMING:
ONLY REVENUE (USD) IN DATASET 1 IS REVENUE

Row Labels	Average Revenue per Employee (USD)
Finance	19651.01
Healthcare	19441.32
Manufacturing	20052.12
Retail	20527.81
Technology	19799.32
(blank)	21598.67

4. Given the datasets contain information about company revenues and the number of employees, can you calculate and analyze the average revenue per employee across different industries?



DATA INSIGHTS

Almost there ☺

DATA INSIGHTS

1. Identify the top 5 companies by number of employees.

2. Analyze the distribution of company foundation years. Are there any particular decades that saw a boom in company formations?

3. Based on the headquarters location, which country has the highest number of companies?

4. Considering the 'Year Founded' information, can you identify any correlation between a company's age (how long it has been in business) and its reported revenue or number of employees? - linear regression in Excel

TOP FIVE COMPANIES BY NUMBER OF EMPLOYEES

1. Identify the top 5 companies by number of employees.

1	Company Name	Country of Headquarters	Industry	Website	Number of Employees	Year Founded
2	Blackburn-Diaz	Liechtenstein	Manufacturing	www.blackburn-diaz.com	5000	1925
3	Garner-Chambers	Bermuda	Retail	www.garner-chambers.com	5000	1952
4	Kim, Mitchell and Gonzalez	Pakistan	Healthcare	www.kim-gonzalez.com	5000	1979
5	Berry, Mcknight and Ferguson	N/A	N/A	www.berry-ferguson.com	4999	1953
6	Bradley, Daniels and Meadows	Bermuda	Technology	www.bradley-daniels-and-meadows.com	4999	1908

```sql
SELECT TOP (5) [Company Name]
        ,[Country of Headquarters]
        ,[Industry ]
        ,[Website]
        ,[Number of Employees]
        ,[Year Founded]
    FROM [Cyncly].[dbo].[All_Datasets]
    ORDER BY [Number of Employees] DESC, [Company Name]
```

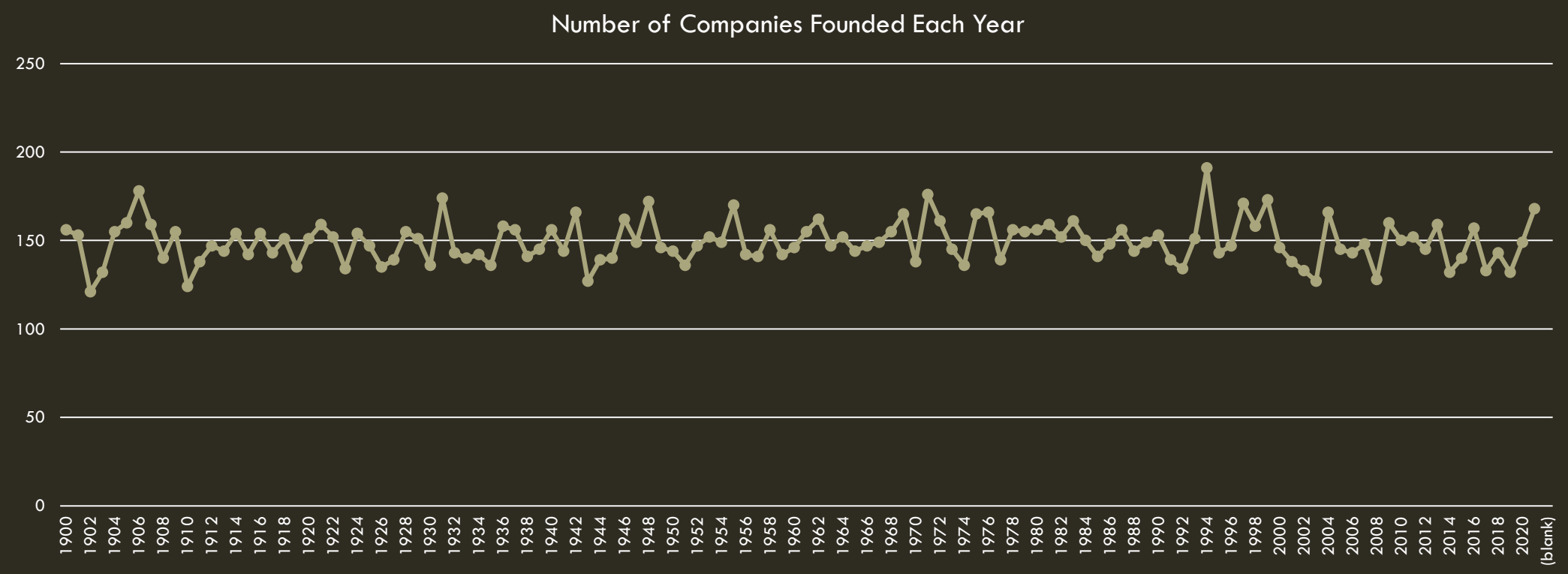
110 %

Results | Messages

	Company Name	Country of Headquarters	Industry	Website	Number of Employees	Year Founded
1	Blackburn-Diaz	Liechtenstein	Manufacturing	www.blackburn-diaz.com	5000	1925
2	Garner-Chambers	Bermuda	Retail	www.garner-chambers.com	5000	1952
3	Kim, Mitchell and Gonzalez	Pakistan	Healthcare	www.kim-gonzalez.com	5000	1979
4	Berry, Mcknight and Ferguson	N/A	N/A	www.berry-ferguson.com	4999	1953
5	Bradley, Daniels and Meadows	Bermuda	Technology	www.bradley-daniels-and-meadows.com	4999	1908

COMPANY FOUNDATIONS THROUGH THE YEARS

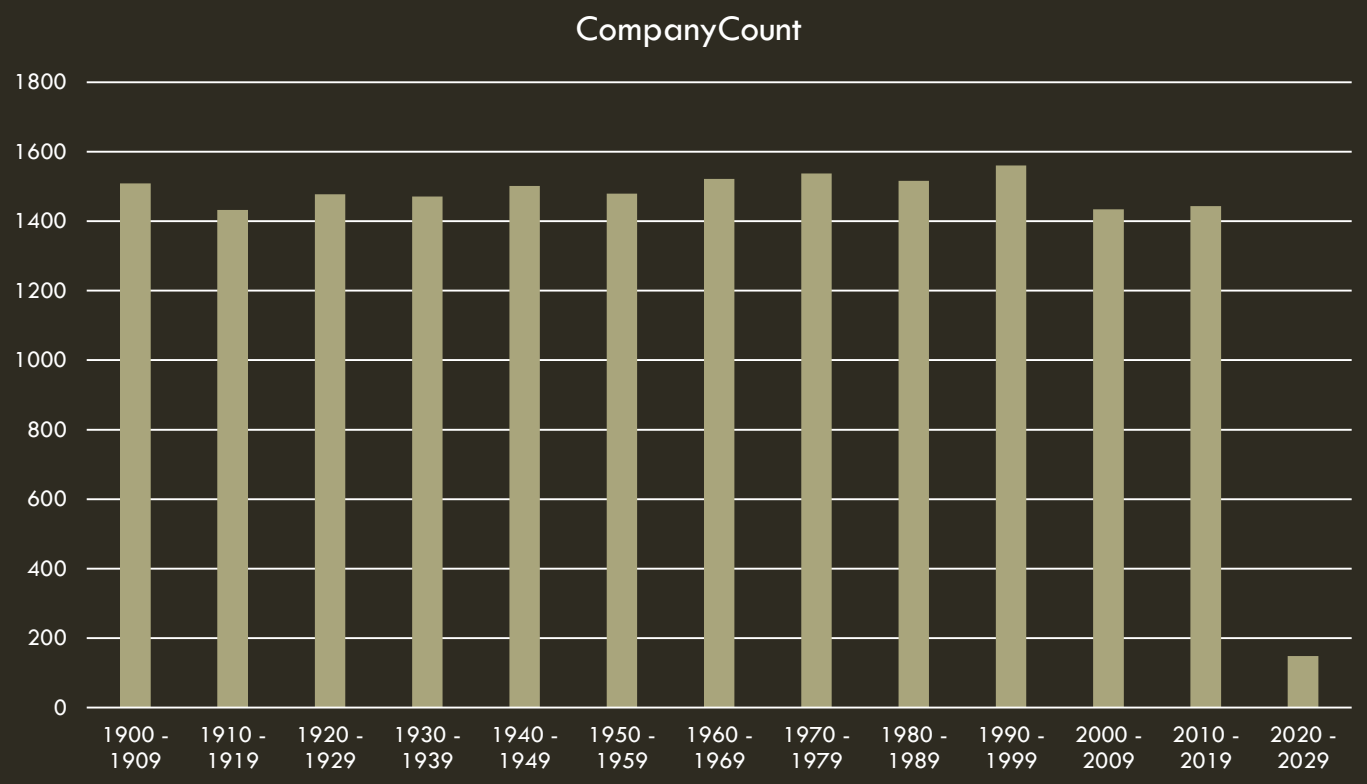
1906 and 1994 saw a boom compared to the surrounding years (with 178 and 191 companies founded respectively).



COMPANY FOUNDATIONS THROUGH THE DECADES

2. Analyze the distribution of company foundation years. Are there any particular decades that saw a boom in company formations?

Decade	Company Count
1900 - 1909	1509
1910 - 1919	1432
1920 - 1929	1477
1930 - 1939	1471
1940 - 1949	1501
1950 - 1959	1479
1960 - 1969	1522
1970 - 1979	1537
1980 - 1989	1516
1990 - 1999	1560
2000 - 2009	1434
2010 - 2019	1443
2020 - 2029	149



DATA INSIGHTS

3. Based on the headquarters location, which country has the highest number of companies?

LQuery17.sql -...64MF\Dragana (76))* | SQLQuery14.sql -...64MF\Dragana (70))* | SQLQuery13.sql -...64M

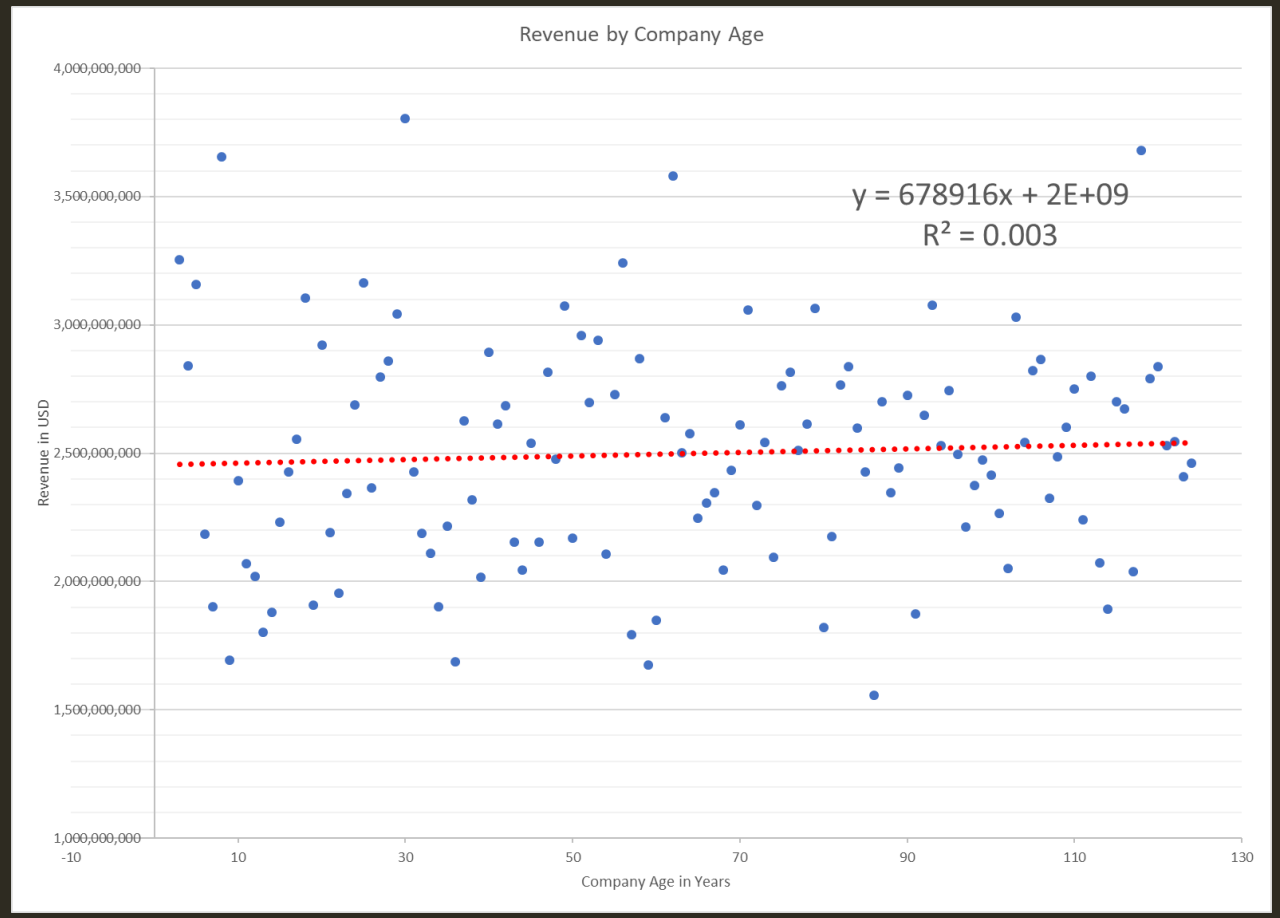
```sql
SELECT TOP 1 COUNT([Country of Headquarters]) AS "Headquarters per Country"
      ,[Country of Headquarters]
  FROM [Cyncly].[dbo].[All_Datasets]
  WHERE [Country of Headquarters] != 'N/A'
  GROUP BY [Country of Headquarters]
  ORDER BY COUNT([Country of Headquarters]) DESC
```

Results | Messages

Headquarters per Country	Country of Headquarters
158	Korea

Revenue (USD)

ASSUMING:
ONLY REVENUE (USD) IN DATASET 1 IS REVENUE



4. Considering the 'Year Founded' information, can you identify any correlation between a company's age (how long it has been in business) and its reported revenue or number of employees?

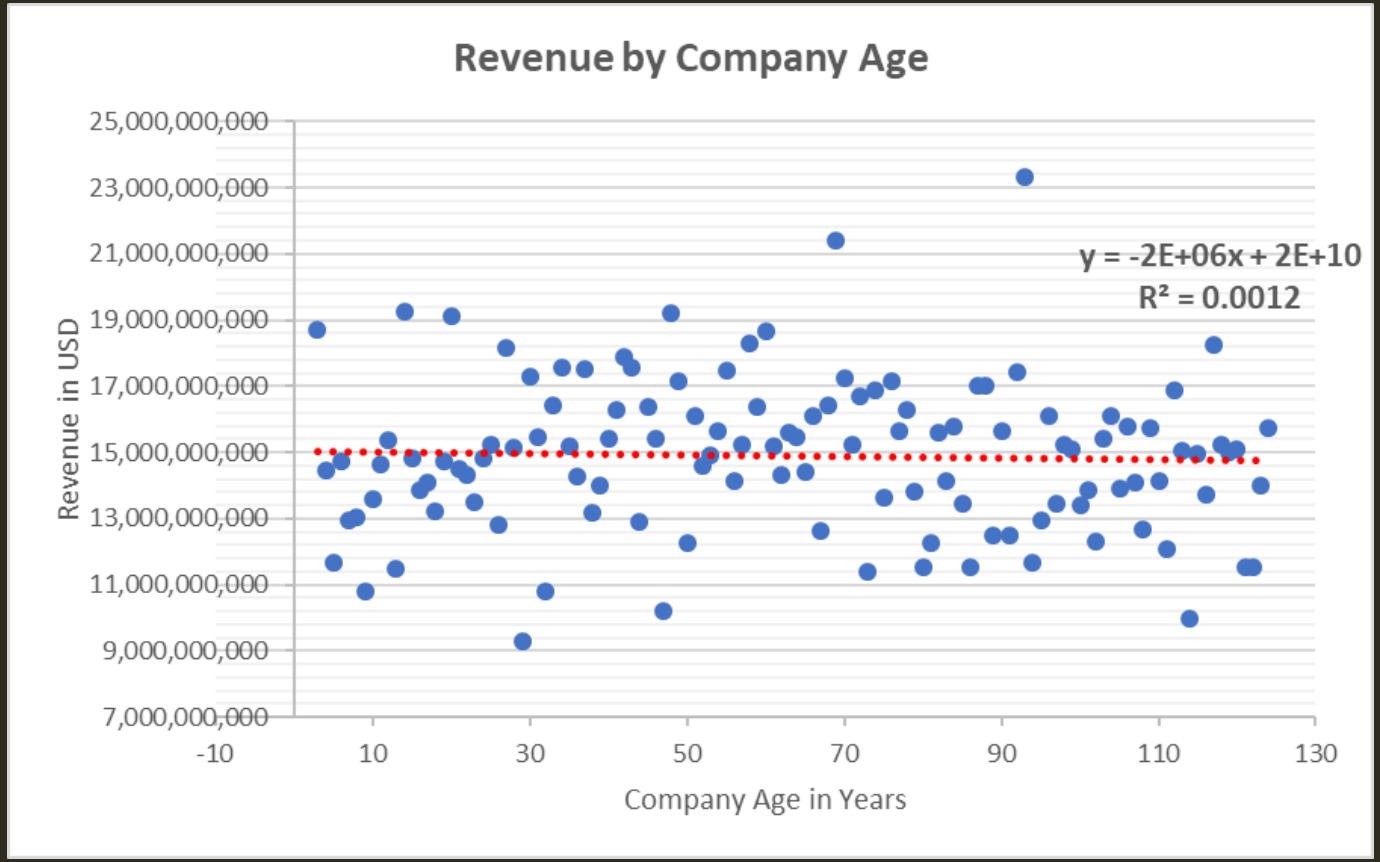
- linear regression in Excel

R = .054549

Revenue (USD)

Annual Sales (USD)

ASSUMING:
MARKET CAP CANNOT CORRESPOND TO REVENUE



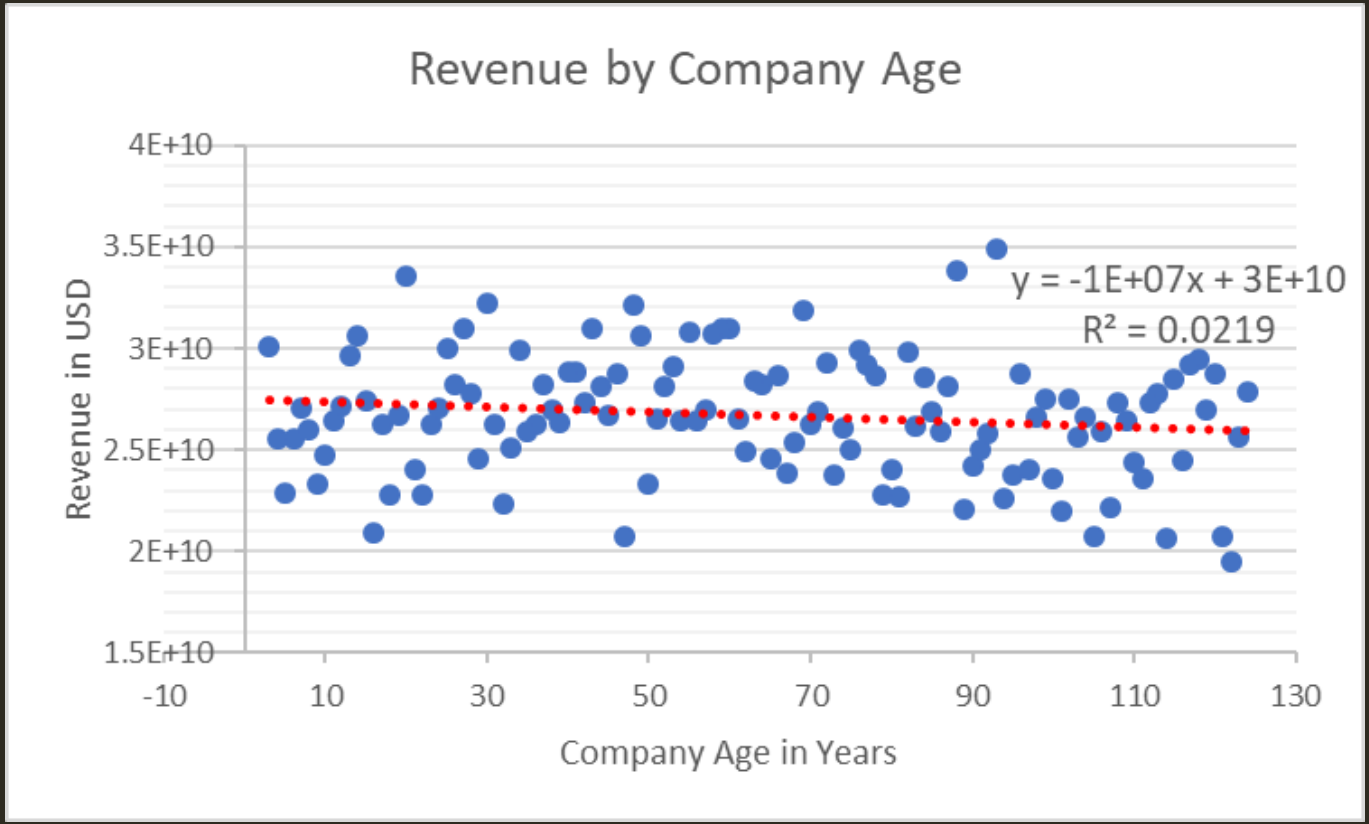
4. Considering the 'Year Founded' information, can you identify any correlation between a company's age (how long it has been in business) and its reported revenue or number of employees?

- linear regression in Excel

R = -0.0349276

ASSUMING:
ALL THREE VALUES CORRESPOND TO REVENUE

Revenue (USD) | Market Cap (USD) | Annual Sales (USD)



4. Considering the 'Year Founded' information, can you identify any correlation between a company's age (how long it has been in business) and its reported revenue or number of employees?

- linear regression in Excel

R = -0.14810133

THANK YOU!