

Cleaning Data with multiple Data

Below is the screenshot of the raw data given to us. From my analysis, I can see that there are

1] Capital letters used in some of the President Name.

2] Unnecessary spaces before the Vice Name.

3] Some random values added after the Prior etc

	A	B	C	D	E	F	G	H	I	J
1		S.No.	president	prior	party	vice	salary	date updated	date created	
2	0	1	George Washington	Commander-in-Chief of the Continental Army (1775â€"1783)	Nonpartisan	John Adams	\$5,000.00	7/14/2021	3/4/2012	
3	1	2	john adams	1st Vice President of the United States	Federalist	Thomas Jefferson	\$10,000.00	7/14/2021	3/4/2012	
4	2	3	Thomas Jefferson	2nd Vice President of the United States	Democratic- Republican	Aaron Burr	\$15,000.00	7/14/2021	3/4/2012	
5	3	4	James Madison	5th United States Secretary of State (1801â€"1809)	Democratic- Republican	George Clinton	\$20,000.00	7/14/2021	3/4/2012	
6	4	5	JAMES MONROE	7th United States Secretary of State (1811â€"1817)	Democratic- Republican	Daniel D. Tompkins	\$25,000.00	7/14/2021	3/4/2012	
7	5	6	John Quincy Adams	8th United States Secretary of State (1817â€"1825)	Democratic- Republican	John C. Calhoun	\$30,000.00	7/14/2021	3/4/2012	
8	6	7	Andrew Jackson	U.S. Senator (Class 2) from Tennessee (1823â€"1825)	Democratic	John C. Calhoun	\$35,000.00	7/14/2021	3/4/2012	
9	7	8	Martin Van Buren	8th Vice President of the United States	Democratic	Richard Mentor Johnson	\$40,000.00	7/14/2021	3/4/2012	
10	8	9	William Henry Harrison	United States Minister to Colombia (1828â€"1829)	Whig	John Tyler	\$45,000.00	7/14/2021	3/4/2012	
11	9	10	john tyler	10th Vice President of the United States	Whig	April 4, 1841 â€" Septen	Office vacant	\$50,000.00	7/14/2021	3/4/2012
12	10	11	James K. Polk	9th Governor of Tennessee (1839â€"1841)	Democratic	George M. Dallas	\$55,000.00	7/14/2021	3/4/2012	
13	11	12	Zachary Taylor	Major General of the 1st Infantry Regiment United States Army (1846â€"1849)	Whig	Millard Fillmore	\$60,000.00	7/14/2021	3/4/2012	
14	12	13	Millard Fillmore	12th Vice President of the United States	Whig	Office vacant	\$65,000.00	7/14/2021	3/4/2012	
15	13	14	Franklin Pierce	Brigadier General of the 9th Infantry United States Army (1847â€"1848)	Democratic	William R. King	\$75,000.00	7/14/2021	3/4/2012	
16	14	15	James Buchanan	United States Minister to the Court of St James's (1853â€"1856)	Democratic	John C. Breckinridge	\$85,000.00	7/14/2021	3/4/2012	
17	15	16	Abraham Lincoln	U.S. Representative for Illinois' 7th District (1847â€"1849)	Republican	Hannibal Hamlin	\$95,000.00	7/14/2021	3/4/2012	
18	16	17	Andrew Johnson	16th Vice President of the United States	Democratic	Office vacant	\$105,000.00	7/14/2021	3/4/2012	
19	17	18	Ulysses S. Grant	Commanding General of the U.S. Army (1864â€"1869)	Republican	Schuyler Colfax	\$115,000.00	7/14/2021	3/4/2012	
20	18	19	Rutherford B. Hayes	29th & 32nd Governor of Ohio (1868â€"1872 & 1876â€"1877)	Republican	William A. Wheeler	\$125,000.00	7/14/2021	3/4/2012	
21	19	20	James A. Garfield	U.S. Representative for Ohio's 19th District (1863â€"1881)	Republican	Chester A. Arthur	\$135,000.00	7/14/2021	3/4/2012	
22	20	21	Chester A. Arthur	20th Vice President of the United States	Republican	Office vacant	\$145,000.00	7/14/2021	3/4/2012	
23	21	22	Grover Cleveland	28th Governor of New York (1883â€"1885)	Democratic	Thomas A. Hendricks	\$155,000.00	7/14/2021	3/4/2012	
24	22	23	Benjamin Harrison	U.S. Senator (Class 1) from Indiana (1881â€"1887)	Republican	Levi P. Morton	\$165,000.00	7/14/2021	3/4/2012	
25	23	24	Grover Cleveland	22nd President of the United States (1885â€"1889)	Democratic	Adlai Stevenson	\$175,000.00	7/14/2021	3/4/2012	
26	24	25	William McKinley	39th Governor of Ohio (1892â€"1896)	Republican	Garret Hobart	\$185,000.00	7/14/2021	3/4/2012	
27	25	26	Theodore Roosevelt	25th Vice President of the United States	Republican	Office vacant	\$195,000.00	7/14/2021	3/4/2012	
28	26	27	William Howard Taft	42nd United States Secretary of War (1904â€"1908)	Republican	James S. Sherman	\$205,000.00	7/14/2021	3/4/2012	
29	27	28	Woodrow Wilson	34th Governor of New Jersey (1911â€"1913)	Democratic	Thomas R. Marshall	\$225,000.00	7/14/2021	3/4/2012	
30	28	29	Warren G. Harding	U.S. Senator (Class 3) from Ohio (1915â€"1921)	Republican	Calvin Coolidge	\$235,000.00	7/14/2021	3/4/2012	
31	29	30	Calvin Coolidge	29th Vice President of the United States	Republican	Office vacant	\$245,000.00	7/14/2021	3/4/2012	
32	30	31	Herbert Hoover	3rd United States Secretary of Commerce (1921â€"1928)	Republican	Charles Curtis	\$255,000.00	7/14/2021	3/4/2012	
33	31	32	Franklin D. Roosevelt	44th Governor of New York (1929â€"1932)	Democratic	John Nance Garner	\$265,000.00	7/14/2021	3/4/2012	
34	32	33	Harry S. Truman	34th Vice President of the United States	Democratic	Office vacant	\$275,000.00	7/14/2021	3/4/2012	
35	33	34	Dwight D. Eisenhower	Supreme Allied Commander Europe (1949â€"1952)	Republican	Richard Nixon	\$285,000.00	7/14/2021	3/4/2012	
36	34	35	John F. Kennedy	U.S. Senator (Class 1) from Massachusetts (1953â€"1960)	Democratic	Lyndon B. Johnson	\$295,000.00	7/14/2021	3/4/2012	

To begin with we need to format and standardize the data.

1] Removing the duplicates values from the Raw Data by following the below steps

The screenshot shows the Microsoft Excel interface with the 'Remove Duplicates' task pane open. The task pane is located on the right side of the screen, over the spreadsheet data. It has a title bar 'Remove Duplicates' and a close button. Below the title bar, there is a message: 'To delete duplicate values, select one or more columns that contain duplicates.' There are two buttons: 'Select All' and 'Unselect All'. Below these buttons is a list of columns with checkboxes next to them. The columns listed are: (Column A), S.No., president, prior, party, and vice. The 'My data has headers' checkbox is checked. At the bottom of the task pane are 'OK' and 'Cancel' buttons. The spreadsheet data is visible in the background, showing columns A through J with various president names and details.

When clicked in Ok to remove the duplicates, it found 1 duplicate record and deleted the records as shown below

The screenshot shows an Excel spreadsheet with columns A through J. Column A contains 'S.No.', column B contains the president's name, column C contains their title, column D contains their term dates, column E contains their party, column F contains their vice president, column G contains their salary, column H contains the date updated, and column I contains the date created. A dialog box is open in the center, stating: '1 duplicate values found and removed; 46 unique values remain. Note that counts may include empty cells, spaces, etc.' The dialog has an 'OK' button.

S.No.	president	prior	party	vice	salary	date updated	date created
0	1 George Washington	Commander-in-Chief of the Continental Army (1775–1783)	Nonpartisan	John Adams	\$5,000.00	7/14/2021	3/4/2012
1	2 john adams	1st Vice President of the United States	Federalist	Thomas Jefferson	\$10,000.00	7/14/2021	3/4/2012
2	3 Thomas Jefferson	2nd Vice President of the United States	Democratic- Republican	Aaron Burr	\$15,000.00	7/14/2021	3/4/2012
3	4 James Madison	5th United States Secretary of State (1801–1809)	Democratic- Republican	George Clinton	\$20,000.00	7/14/2021	3/4/2012
4	5 JAMES MONROE	7th United States Secretary of State (1811–1817)	Democratic- Republican	Daniel D. Tompkins	\$25,000.00	7/14/2021	3/4/2012
5	6 John Quincy Adams	8th United States Secretary of State (1817–1825)	Democratic- Republican	John C. Calhoun	\$30,000.00	7/14/2021	3/4/2012
6	7 Andrew Jackson	U.S. Senator (Class 2) from Tennessee (1823–1825)	Democratic	John C. Calhoun	\$35,000.00	7/14/2021	3/4/2012
7	8 Martin Van Buren	8th Vice President of the United States				7/14/2021	3/4/2012
8	9 William Henry Harrison	United States Minister to Colombia (1828–1829)				7/14/2021	3/4/2012
9	10 john tyler	10th Vice President of the United States				7/14/2021	3/4/2012
10	11 James K. Polk	9th Governor of Tennessee (1839–1841)				7/14/2021	3/4/2012
11	12 Zachary Taylor	Major General of the 1st Infantry Regiment United States Army (1846–1849)				7/14/2021	3/4/2012
12	13 Millard Fillmore	12th Vice President of the United States				7/14/2021	3/4/2012
13	14 Franklin Pierce	Brigadier General of the 9th Infantry United States Army (1847–1848)				7/14/2021	3/4/2012
14	15 James Buchanan	United States Minister to the Court of St James's (1853–1856)	Democratic	John C. Breckinridge	\$85,000.00	7/14/2021	3/4/2012
15	16 Abraham Lincoln	U.S. Representative for Illinois' 7th District (1847–1849)	Republican	Hannibal Hamlin	\$95,000.00	7/14/2021	3/4/2012
16	17 Andrew Johnson	16th Vice President of the United States	Democratic	Office vacant	\$105,000.00	7/14/2021	3/4/2012
17	18 Ulysses S. Grant	Commanding General of the U.S. Army (1864–1869)	Republican	Schuyler Colfax	\$115,000.00	7/14/2021	3/4/2012
18	19 Rutherford B. Hayes	29th & 32nd Governor of Ohio (1868–1872 & 1876–1877)	Republican	William A. Wheeler	\$125,000.00	7/14/2021	3/4/2012
19	20 James A. Garfield	U.S. Representative for Ohio's 19th District (1863–1881)	Republican	Chester A. Arthur	\$135,000.00	7/14/2021	3/4/2012
20	21 Chester A. Arthur	20th Vice President of the United States	Republican	Office vacant	\$145,000.00	7/14/2021	3/4/2012
21	22 Grover Cleveland	28th Governor of New York (1883–1885)	Democratic	Thomas A. Hendricks	\$155,000.00	7/14/2021	3/4/2012
22	23 Benjamin Harrison	U.S. Senator (Class 1) from Indiana (1881–1887)	Republican	Levi P. Morton	\$165,000.00	7/14/2021	3/4/2012
23	24 Grover Cleveland	22nd President of the United States (1885–1889)	Democratic	Adlai Stevenson	\$175,000.00	7/14/2021	3/4/2012
24	25 William McKinley	39th Governor of Ohio (1892–1896)	Republican	Garret Hobart	\$185,000.00	7/14/2021	3/4/2012
25	26 Theodore Roosevelt	25th Vice President of the United States	Republican	Office vacant	\$195,000.00	7/14/2021	3/4/2012
26	27 William Howard Taft	42nd United States Secretary of War (1904–1908)	Republican	James S. Sherman	\$205,000.00	7/14/2021	3/4/2012
27	28 Woodrow Wilson	34th Governor of New Jersey (1911–1913)	Democratic	Thomas R. Marshall	\$225,000.00	7/14/2021	3/4/2012
28	29 Woodrow Wilson	34th Governor of New Jersey (1911–1913)	Demorcatc	Thomas R. Marshall	\$225,000.00	7/14/2021	3/4/2012

Created a new column to format the president Name Column such that if any mistake occurs I do not damage the original data. Next, Used the **=PROPER(Value)** formula to set the Name in proper case as few names were in the Capital letters. This formula helps to standardize the format. If you observe the C6 cell we notice that all in Capital letter.

The screenshot shows the same Excel spreadsheet as before, but with a new column D added. Column D contains the formula **=Proper(C2)** in cell D2, which is copied down to cell D28. The formula is shown in the formula bar at the top. The spreadsheet is titled 'US_Presidents_raw_data' and the active sheet is 'Sheet1'.

	A	B	C	D	E
1		S.No.	president		prior
2	0	1	George Washington	=Proper(C2)	Commander-in-Chief of the Continental Army (1775–1783)
3	1	2	john adams		1st Vice President of the United States
4	2	3	Thomas Jefferson		2nd Vice President of the United States
5	3	4	James Madison		5th United States Secretary of State (1801–1809)
6	4	5	JAMES MONROE		7th United States Secretary of State (1811–1817)
7	5	6	John Quincy Adams		8th United States Secretary of State (1817–1825)
8	6	7	Andrew Jackson		U.S. Senator (Class 2) from Tennessee (1823–1825)
9	7	8	Martin Van Buren		8th Vice President of the United States
10	8	9	William Henry Harrison		United States Minister to Colombia (1828–1829)
11	9	10	john tyler		10th Vice President of the United States
12	10	11	James K. Polk		9th Governor of Tennessee (1839–1841)
13	11	12	Zachary Taylor		Major General of the 1st Infantry Regiment United States Army (1846–1849)
14	12	13	Millard Fillmore		12th Vice President of the United States
15	13	14	Franklin Pierce		Brigadier General of the 9th Infantry United States Army (1847–1848)
16	14	15	James Buchanan		United States Minister to the Court of St James's (1853–1856)
17	15	16	Abraham Lincoln		U.S. Representative for Illinois' 7th District (1847–1849)
18	16	17	Andrew Johnson		16th Vice President of the United States
19	17	18	Ulysses S. Grant		Commanding General of the U.S. Army (1864–1869)
20	18	19	Rutherford B. Hayes		29th & 32nd Governor of Ohio (1868–1872 & 1876–1877)
21	19	20	James A. Garfield		U.S. Representative for Ohio's 19th District (1863–1881)
22	20	21	Chester A. Arthur		20th Vice President of the United States
23	21	22	Grover Cleveland		28th Governor of New York (1883–1885)
24	22	23	Benjamin Harrison		U.S. Senator (Class 1) from Indiana (1881–1887)
25	23	24	Grover Cleveland		22nd President of the United States (1885–1889)
26	24	25	William McKinley		39th Governor of Ohio (1892–1896)
27	25	26	Theodore Roosevelt		25th Vice President of the United States
28	26	27	William Howard Taft		42nd United States Secretary of War (1904–1908)
29	27	28	Woodrow Wilson		34th Governor of New Jersey (1911–1913)
30	28	29	Woodrow Wilson		34th Governor of New Jersey (1911–1913)

This is the output for this formula

S.No.	president	prior	party	vice	salary	date updated
0	George Washington	Commander-in-Chief of the Continental Army (1775â€"1783)	Nonpartisan	John Adams	\$5,000.00	7/14/2021
1	John Adams	1st Vice President of the United States	Federalist	Thomas Jefferson	\$10,000.00	7/14/2021
2	Thomas Jefferson	2nd Vice President of the United States	Democratic- Republican	Aaron Burr	\$15,000.00	7/14/2021
3	James Madison	5th United States Secretary of State (1801â€"1809)	Democratic- Republican	George Clinton	\$20,000.00	7/14/2021
4	JAMES MONROE	7th United States Secretary of State (1811â€"1817)	Democratic- Republican	Daniel D. Tompkins	\$25,000.00	7/14/2021
5	John Quincy Adams	8th United States Secretary of State (1817â€"1825)	Democratic- Republican	John C. Calhoun	\$30,000.00	7/14/2021
6	Andrew Jackson	U.S. Senator (Class 2) from Tennessee (1823â€"1825)	Democratic	John C. Calhoun	\$35,000.00	7/14/2021
7	Martin Van Buren	8th Vice President of the United States	Democratic	Richard Mentor Johnson	\$40,000.00	7/14/2021
8	William Henry Harrison	United States Minister to Colombia (1828â€"1829)	Whig	John Tyler	\$45,000.00	7/14/2021
9	John Tyler	10th Vice President of the United States	Whig	Office vacant	\$50,000.00	7/14/2021
10	James K. Polk	9th Governor of Tennessee (1839â€"1841)	Democratic	George M. Dallas	\$55,000.00	7/14/2021
11	Zachary Taylor	Major General of the 1st Infantry Regiment United States Army (1846â€"1849)	Whig	Millard Fillmore	\$60,000.00	7/14/2021
12	Millard Fillmore	12th Vice President of the United States	Whig	Office vacant	\$65,000.00	7/14/2021
13	Franklin Pierce	Brigadier General of the 9th Infantry United States Army (1847â€"1848)	Democratic	William R. King	\$75,000.00	7/14/2021
14	James Buchanan	United States Minister to the Court of St James's (1853â€"1856)	Democratic	John C. Breckinridge	\$85,000.00	7/14/2021
15	Abraham Lincoln	U.S. Representative for Illinois' 7th District (1847â€"1849)	Republican	Hannibal Hamlin	\$95,000.00	7/14/2021
16	Andrew Johnson	16th Vice President of the United States	Democratic	Office vacant	\$105,000.00	7/14/2021
17	Ulysses S. Grant	Commanding General of the U.S. Army (1864â€"1869)	Republican	Schuyler Colfax	\$115,000.00	7/14/2021
18	Rutherford B. Hayes	29th & 32nd Governor of Ohio (1868â€"1872 & 1876â€"1877)	Republican	William A. Wheeler	\$125,000.00	7/14/2021
19	James A. Garfield	U.S. Representative for Ohio's 19th District (1863â€"1881)	Republican	Chester A. Arthur	\$135,000.00	7/14/2021
20	Chester A. Arthur	20th Vice President of the United States	Republican	Office vacant	\$145,000.00	7/14/2021
21	Grover Cleveland	28th Governor of New York (1883â€"1885)	Democratic	Thomas A. Hendricks	\$155,000.00	7/14/2021
22	Benjamin Harrison	U.S. Senator (Class 1) from Indiana (1881â€"1887)	Republican	Levi P. Morton	\$165,000.00	7/14/2021
23	Grover Cleveland	22nd President of the United States (1885â€"1889)	Democratic	Adlai Stevenson	\$175,000.00	7/14/2021
24	William McKinley	39th Governor of Ohio (1892â€"1896)	Republican	Garret Hobart	\$185,000.00	7/14/2021
25	Theodore Roosevelt	25th Vice President of the United States	Republican	Office vacant	\$195,000.00	7/14/2021
26	William Howard Taft	26th United States Secretary of War (1904â€"1909)	Republican	James S. Sherman	\$205,000.00	7/14/2021

Observing the Party column and used the filter option to check the filters there a few options that popped up in the options

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4	James Monroe	7th United States Secretary of State (1811â€"1817)	Democratic- Republican	Daniel D. Tompkins	\$25,000.00	7/14/2021	3/4/2012
5	John Quincy Adams	8th United States Secretary of State (1817â€"1825)	Democratic- Republican	John C. Calhoun	\$30,000.00	7/14/2021	3/4/2012
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26	William Howard Taft	26th United States Secretary of War (1904â€"1909)	Republican	James S. Sherman	\$205,000.00	7/14/2021	3/4/2012

there are two republican and republicans options, when I selected only those two options, I found that it could be the spelling mistake as I could just see one record with a extra "s" in it.

Get & Transform Data									
Queries & Connections									
Data Types									
Sort & Filter									
Data Tools									
Forecast									
Outline									

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20	18	Rutherford B. Hayes	29th & 32nd Governor of Ohio (1868&"187 Republican		William A. Wheeler	\$125,000.00	7/14/2021	3/4/2012
21	19	James A. Garfield	U.S. Representative for Ohio's 19th District Republican		Chester A. Arthur	\$135,000.00	7/14/2021	3/4/2012
22	20	Chester A. Arthur	20th Vice President of the United States Republican		Office vacant	\$145,000.00	7/14/2021	3/4/2012
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27	25	Theodore Roosevelt	25th Vice President of the United States Republican		Office vacant	\$195,000.00	7/14/2021	3/4/2012
28	26	William Howard Taft	42nd United States Secretary of War (1904â Republican		James S. Sherman	\$205,000.00	7/14/2021	3/4/2012
31	28	Warren G. Harding	U.S. Senator (Class 3) from Ohio (1915&" Republican		Calvin Coolidge	\$235,000.00	7/14/2021	3/4/2012
32	29	Calvin Coolidge	29th Vice President of the United States Republican		Office vacant	\$245,000.00	7/14/2021	3/4/2012
33	30	Herbert Hoover	3rd United States Secretary of Commerce (1 Republican		Charles Curtis	\$255,000.00	7/14/2021	3/4/2012
36	33	Dwight D. Eisenhower	Supreme Allied Commander Europe (1949&" Republican		Richard Nixon	\$285,000.00	7/14/2021	3/4/2012
39	36	Richard Nixon	36th Vice President of the United States (19' Republican		Spiro Agnew	\$315,000.00	7/14/2021	3/4/2012
40	37	Gerald Ford	40th Vice President of the United States Republican		Office vacant	\$325,000.00	7/14/2021	3/4/2012
42	39	Ronald Reagan	33rd Governor of California (1967&"1975) Republican		George H. W. Bush	\$345,000.00	7/14/2021	3/4/2012
43	40	George H. W. Bush	43rd Vice President of the United States Republican		Dan Quayle	\$355,000.00	7/14/2021	3/4/2012
45	42	George W. Bush	46th Governor of Texas (1995&"2000) Republican		Dick Cheney	\$375,000.00	7/14/2021	3/4/2012
47	44	Donald Trump	Chairman of The Trump Organization (1971 Republicans		Mike Pence	\$405,000.00	Wednesday, July 14, 2021	Saturday, February 1, 2020

Since there was only One record, I went ahead to correct the single record. Doing the same procedure with the “WHIG” party, seems like there are two types of whig one with a random date and another only whig. It loks like an error, hence we would get rid of that random data after “Whig”

Get & Transform Data									
Queries & Connections									
Data Types									
Sort & Filter									
Data Tools									
Forecast									
Outline									

A	B	C	D	E	F	G	H	I
1	S.No.	president	prior	party	vice	salary	date updated	date created
10	8	William Henry Harrison	United States Minister to Colombia (1828&" Whig		John Tyler	\$45,000.00	7/14/2021	3/4/2012
11	9	John Tyler	10th Vice President of the United States Whig April 4, 1841 &" September 13, 1841		Office vacant	\$50,000.00	7/14/2021	3/4/2012
13	11	Zachary Taylor	Major General of the 1st Infantry Regiment Whig		Millard Fillmore	\$60,000.00	7/14/2021	3/4/2012
14	12	Millard Fillmore	12th Vice President of the United States Whig		Office vacant	\$65,000.00	7/14/2021	3/4/2012

Below is the corrected version of the column

Get & Transform Data									
Queries & Connections									
Data Types									
Sort & Filter									
Data Tools									
Forecast									
Outline									

A	B	C	D	E	F	G	H	I	J
1	S.No.	president	prior	party	vice	salary	date updated	date created	
10	8	William Henry Harrison	United States Minister to Colombia (1828&" Whig		John Tyler	\$45,000.00	7/14/2021	3/4/2012	
11	9	John Tyler	10th Vice President of the United States Whig		Office vacant	\$50,000.00	7/14/2021	3/4/2012	
13	11	Zachary Taylor	Major General of the 1st Infantry Regiment Whig		Millard Fillmore	\$60,000.00	7/14/2021	3/4/2012	
14	12	Millard Fillmore	12th Vice President of the United States Whig		Office vacant	\$65,000.00	7/14/2021	3/4/2012	

Next lets observe the Vice column, I can observe that there is extra space in that column as shown in the below screenshot

	A	B	C	D	E	F	G	H	I	J
1		S.No.	president	prior	party	vice		salary	date updated	date created
2	0	1	George Washington	Commander-in-Chief of the Continental Arm	Nonpartisan	John Adams		\$5,000.00	7/14/2021	3/4/2012
3	1	2	John Adams	1st Vice President of the United States	Federalist	Thomas Jefferson		\$10,000.00	7/14/2021	3/4/2012
4	2	3	Thomas Jefferson	2nd Vice President of the United States	Democratic- Republican	Aaron Burr		\$15,000.00	7/14/2021	3/4/2012
5	3	4	James Madison	5th United States Secretary of State (1801ܓܖ)	Democratic- Republican	George Clinton		\$20,000.00	7/14/2021	3/4/2012
6	4	5	James Monroe	7th United States Secretary of State (1811ܖ)	Democratic- Republican	Daniel D. Tompkins		\$25,000.00	7/14/2021	3/4/2012
7	5	6	John Quincy Adams	8th United States Secretary of State (1817ܚ)	Democratic- Republican	John C. Calhoun		\$30,000.00	7/14/2021	3/4/2012
8	6	7	Andrew Jackson	U.S. Senator (Class 2) from Tennessee (1ܜܞ)	Democratic	John C. Calhoun		\$35,000.00	7/14/2021	3/4/2012
9	7	8	Martin Van Buren	8th Vice President of the United States	Democratic	Richard Mentor Johnson		\$40,000.00	7/14/2021	3/4/2012
10	8	9	William Henry Harrison	United States Minister to Colombia (1828ܥ)	Whig	John Tyler		\$45,000.00	7/14/2021	3/4/2012
11	9	10	John Tyler	10th Vice President of the United States	Whig	Office vacant		\$50,000.00	7/14/2021	3/4/2012
12	10	11	James K. Polk	9th Governor of Tennessee (1839ܱ)	Democratic	George M. Dallas		\$55,000.00	7/14/2021	3/4/2012
13	11	12	Zachary Taylor	Major General of the 1st Infantry Regiment	Whig	Millard Fillmore		\$60,000.00	7/14/2021	3/4/2012
14	12	13	Millard Fillmore	12th Vice President of the United States	Whig	Office vacant		\$65,000.00	7/14/2021	3/4/2012
15	13	14	Franklin Pierce	Brigadier General of the 9th Infantry	United Democratic	William R. King		\$75,000.00	7/14/2021	3/4/2012
16	14	15	James Buchanan	United States Minister to the Court of St Jan	Democratic	John C. Breckinridge		\$85,000.00	7/14/2021	3/4/2012
17	15	16	Abraham Lincoln	U.S. Representative for Illinois' 7th District (1ܚ)	Republican	Hannibal Hamlin		\$95,000.00	7/14/2021	3/4/2012
18	16	17	Andrew Johnson	16th Vice President of the United States	Democratic	Office vacant		\$105,000.00	7/14/2021	3/4/2012
19	17	18	Ulysses S. Grant	Commanding General of the U.S. Army (1݅݉)	Republican	Schuyler Colfax		\$115,000.00	7/14/2021	3/4/2012
20	18	19	Rutherford B. Hayes	29th & 32nd Governor of Ohio (1݌ݕ)	Republican	William A. Wheeler		\$125,000.00	7/14/2021	3/4/2012
21	19	20	James A. Garfield	U.S. Representative for Ohio's 19th District	Republican	Chester A. Arthur		\$135,000.00	7/14/2021	3/4/2012
22	20	21	Chester A. Arthur	20th Vice President of the United States	Republican	Office vacant		\$145,000.00	7/14/2021	3/4/2012
23	21	22	Grover Cleveland	28th Governor of New York (1ݛݝ)	Democratic	Thomas A. Hendricks		\$155,000.00	7/14/2021	3/4/2012
24	22	23	Benjamin Harrison	U.S. Senator (Class 1) from Indiana (1ݙ)	Republican	Levi P. Morton		\$165,000.00	7/14/2021	3/4/2012
25	23	24	Grover Cleveland	22nd President of the United States (1ݝݡ)	Democratic	Adlai Stevenson		\$175,000.00	7/14/2021	3/4/2012
26	24	25	William McKinley	39th Governor of Ohio (1ݤݨ)	Republican	Garret Hobart		\$185,000.00	7/14/2021	3/4/2012
27	25	26	Theodore Roosevelt	25th Vice President of the United States	Republican	Office vacant		\$195,000.00	7/14/2021	3/4/2012
28	26	27	William Howard Taft	27th United States Secretary of War (1ݰݴ)	Republican	James S. Thompson		\$205,000.00	7/14/2021	3/4/2012

To fix this issue, I am going to use the TRIM formula that is =TRIM (value). This helps to eliminate the extra space. Lets see the Output below

F	G
vice	
John Adams	=TRIM(F2)
Thomas Jefferson	
Aaron Burr	
George Clinton	

Output:

F	G
vice	
John Adams	John Adams
Thomas Jefferson	Thomas Jefferson
Aaron Burr	Aaron Burr
George Clinton	George Clinton
Daniel D. Tompkins	Daniel D. Tompkins
John C. Calhoun	John C. Calhoun
John C. Calhoun	John C. Calhoun
Richard Mentor Johnson	Richard Mentor Johnson
John Tyler	John Tyler
Office vacant	Office vacant
George M. Dallas	George M. Dallas
Millard Fillmore	Millard Fillmore
...	...

Next, while observing the Salary Column we observe that there is a dollar sign which makes it had to put it in the database and may cause issue,

Clipboard

Font

Alignment

Calibri

11

A⁺

A⁻

B

I

U

Color

Background Color

Number

123

No specific format

Number

12

salary

Currency

Accounting

Short Date

Long Date

Time

Percentage

Fraction

Scientific

More Number Formats...

Insert

Format as Table

Cell Styles

Delete

Format

Sort & Filter

Find & Select

Sensitivity

Add-ins

Copilot

Show ToolPak

S.No.	president	prior		vice	salary	date updated	date created
0	1 George Washington	Commander-in-Chief of the Continental Army (1775&1797)	Nonpartisan	John Adams	\$5,000.00	7/14/2021	3/4/2012
1	2 John Adams	1st Vice President of the United States	Federalist	Thomas Jefferson	\$10,000.00	7/14/2021	3/4/2012
2	3 Thomas Jefferson	2nd Vice President of the United States	Democratic- Republican	Aaron Burr	\$15,000.00	7/14/2021	3/4/2012
3	4 James Madison	5th United States Secretary of State (1801&1809)	Democratic- Republican	George Clinton	\$20,000.00	7/14/2021	3/4/2012
4	5 JAMES MONROE	7th United States Secretary of State (1811&1817)	Democratic- Republican	Daniel D. Tompkins	\$25,000.00	7/14/2021	3/4/2012
5	6 John Quincy Adams	8th United States Secretary of State (1817&1825)	Democratic- Republican	John C. Calhoun	\$30,000.00	7/14/2021	3/4/2012
6	7 Andrew Jackson	U.S. Senator (Class 2) from Tennessee (1823&1829)	Democratic	John C. Calhoun	\$35,000.00	7/14/2021	3/4/2012
7	8 Martin Van Buren	8th Vice President of the United States	Democratic	Richard Mentor Johnson	\$40,000.00	7/14/2021	3/4/2012
8	9 William Henry Harrison	United States Minister to Colombia (1828&1829)	Whig	John Tyler	\$45,000.00	7/14/2021	3/4/2012
9	10 John Tyler	10th Vice President of the United States	Whig	Office vacant	\$50,000.00	7/14/2021	3/4/2012
10	11 James K. Polk	9th Governor of Tennessee (1839&1841)	Democratic	George M. Dallas	\$55,000.00	7/14/2021	3/4/2012
11	12 Zachary Taylor	Major General of the 1st Infantry Regiment United States Army	Whig	Millard Fillmore	\$60,000.00	7/14/2021	3/4/2012
12	13 Millard Fillmore	12th Vice President of the United States	Whig	Office vacant	\$65,000.00	7/14/2021	3/4/2012
13	14 Franklin Pierce	Brigadier General of the 9th Infantry United States Army	Democratic	William R. King	\$75,000.00	7/14/2021	3/4/2012
14	15 James Buchanan	United States Minister to the Court of St James' (1846&1848)	Democratic	John C. Breckinridge	\$85,000.00	7/14/2021	3/4/2012
15	16 Abraham Lincoln	U.S. Representative for Illinois' 7th District (1847&1849)	Republican	Hannibal Hamlin	\$95,000.00	7/14/2021	3/4/2012
16	17 Andrew Johnson	16th Vice President of the United States	Republican	Office vacant	\$105,000.00	7/14/2021	3/4/2012
17	18 Ulysses S. Grant	Commanding General of the U.S. Army (1864&1869)	Republican	Schuyler Colfax	\$115,000.00	7/14/2021	3/4/2012
18	19 Rutherford B. Hayes	29th & 32nd Governor of Ohio (1868&1872 & 1876&1877)	Republican	William A. Wheeler	\$125,000.00	7/14/2021	3/4/2012
19	20 James A. Garfield	U.S. Representative for Ohio's 19th District (1863&1871)	Republican	Chester A. Arthur	\$135,000.00	7/14/2021	3/4/2012
20	21 Chester A. Arthur	20th Vice President of the United States	Republican	Office vacant	\$145,000.00	7/14/2021	3/4/2012
21	22 Grover Cleveland	28th Governor of New York (1883&1885)	Democratic	Thomas A. Hendricks	\$155,000.00	7/14/2021	3/4/2012
22	23 Benjamin Harrison	U.S. Senator (Class 1) from Indiana (1881&1887)	Republican	Levi P. Morton	\$165,000.00	7/14/2021	3/4/2012
23	24 Grover Cleveland	22nd President of the United States (1885&1889)	Democratic	Adlai Stevenson	\$175,000.00	7/14/2021	3/4/2012
24	25 William McKinley	39th Governor of Ohio (1892&1896)	Republican	Garret Hobart	\$185,000.00	7/14/2021	3/4/2012
25	26 Theodore Roosevelt	25th Vice President of the United States	Republican	Office vacant	\$195,000.00	7/14/2021	3/4/2012
26	27 William Howard Taft	42nd United States Secretary of War (1904&1908)	Republican	James S. Sherman	\$205,000.00	7/14/2021	3/4/2012
27	28 Woodrow Wilson	34th Governor of New Jersey (1911&1913)	Democratic	Thomas R. Marshall	\$225,000.00	7/14/2021	3/4/2012
27	28 Woodrow Wilson	34th Governor of New Jersey (1911&1913)	Democratic	Thomas R. Marshall	\$225,000.00	7/14/2021	3/4/2012

US_Presidents_raw_data US_cleaned_Data

Accessibility: Good to go

Average: 183723.4043 Count: 48 Sum: 8635000

90%

let's just make it simple for us and not get into issues, I am converting the TEXT to number as shown below and we observed that we removed the \$ symbol and also the Cents are removed.

Clipboard

Font

Alignment

Number

Calibri

11

A⁺

A⁻

B

I

U

Color

Background Color

Number

123

No specific format

Number

12

salary

Currency

Accounting

Short Date

Long Date

Time

Percentage

Fraction

Scientific

More Number Formats...

Insert

Format as Table

Cell Styles

Delete

Format

Sort & Filter

Find & Select

Sensitivity

Add-ins

Copilot

Show ToolPak

D	E	F	G	H	I
1 president-Fixed	prior	party	vice	Vice-Fixed	salary
2 George Washington	Commander-in-Chief of the Continental Arm	Nonpartisan	John Adams	John Adams	5000
3 ohn Adams	1st Vice President of the United States	Federalist	Thomas Jefferson	Thomas Jefferson	10000
4 thomas Jefferson	2nd Vice President of the United States	Democratic- Republican	Aaron Burr	Aaron Burr	15000
5 ames Madison	5th United States Secretary of State (1801&1809)	Democratic- Republican	George Clinton	George Clinton	20000
6 ames Monroe	7th United States Secretary of State (1811&1817)	Democratic- Republican	Daniel D. Tompkins	Daniel D. Tompkins	25000
7 ohn Quincy Adams	8th United States Secretary of State (1817&1825)	Democratic- Republican	John C. Calhoun	John C. Calhoun	30000
8 Andrew Jackson	U.S. Senator (Class 2) from Tennessee (1823&1829)	Democratic	John C. Calhoun	John C. Calhoun	35000
9 Martin Van Buren	8th Vice President of the United States	Democratic	Richard Mentor Johnson	Richard Mentor Johnson	40000
10 William Henry Harrison	United States Minister to Colombia (1828&1829)	Whig	John Tyler	John Tyler	45000
11 ohn Tyler	10th Vice President of the United States	Whig	Office vacant	Office vacant	50000
12 James K. Polk	9th Governor of Tennessee (1839&1841)	Democratic	George M. Dallas	George M. Dallas	55000
13 Zachary Taylor	Major General of the 1st Infantry Regiment	Whig	Millard Fillmore	Millard Fillmore	60000
14 Millard Fillmore	12th Vice President of the United States	Whig	Office vacant	Office vacant	65000
15 Franklin Pierce	Brigadier General of the 9th Infantry United States Army	Democratic	William R. King	William R. King	75000
16 James Buchanan	United States Minister to the Court of St Jan	Democratic	John C. Breckinridge	John C. Breckinridge	85000
17 Abraham Lincoln	U.S. Representative for Illinois' 7th District (1847&1849)	Republican	Hannibal Hamlin	Hannibal Hamlin	95000
18 Andrew Johnson	16th Vice President of the United States	Democratic	Office vacant	Office vacant	105000
19 Ulysses S. Grant	Commanding General of the U.S. Army (1864&1869)	Republican	Schuyler Colfax	Schuyler Colfax	115000
20 Rutherford B. Hayes	29th & 32nd Governor of Ohio (1868&1872 & 1876&1877)	Republican	William A. Wheeler	William A. Wheeler	125000
21 James A. Garfield	U.S. Representative for Ohio's 19th District (1863&1871)	Republican	Chester A. Arthur	Chester A. Arthur	135000
22 Chester A. Arthur	20th Vice President of the United States	Republican	Office vacant	Office vacant	145000
23 Grover Cleveland	28th Governor of New York (1883&1885)	Democratic	Thomas A. Hendricks	Thomas A. Hendricks	155000
24 Benjamin Harrison	U.S. Senator (Class 1) from Indiana (1881&1887)	Republican	Levi P. Morton	Levi P. Morton	165000
25 Grover Cleveland	22nd President of the United States (1885&1889)	Democratic	Adlai Stevenson	Adlai Stevenson	175000
26 William Mckinley	39th Governor of Ohio (1892&1896)	Republican	Garret Hobart	Garret Hobart	185000
27 Theodore Roosevelt	25th Vice President of the United States	Republican	Office vacant	Office vacant	195000
28 William Howard Taft	42nd United States Secretary of War (1904&1908)	Republican	James S. Sherman	James S. Sherman	205000
29 Woodrow Wilson	34th Governor of New Jersey (1911&1913)	Democratic	Thomas R. Marshall	Thomas R. Marshall	225000

Now, Lets see the Date field some are which are not in same format as shown in the figure, Hence we use the Short Date option to fix this issue

The screenshot shows the Microsoft Excel interface. The 'Number' format dropdown menu is open, and the 'Short Date' option is selected. The background table contains the following data:

	A	B	C	D
11	28	29	Warren G. Harding	U.S. Senator (Class 3) from Ohio (1915&€"1921)
12	29	30	Calvin Coolidge	29th Vice President of the United States
13	30	31	Herbert Hoover	3rd United States Secretary of Commerce (1921&€"192
14	31	32	Franklin D. Roosevelt	44th Governor of New York (1929&€"1932)
15	32	33	Harry S. Truman	34th Vice President of the United States
16	33	34	Dwight D. Eisenhower	Supreme Allied Commander Europe (1949&€"1952)
17	34	35	John F. Kennedy	U.S. Senator (Class 1) from Massachusetts (1953&€"196
18	35	36	Lyndon B. Johnson	37th Vice President of the United States
19	36	37	Richard Nixon	36th Vice President of the United States (1953&€"1961
20	37	38	Gerald Ford	40th Vice President of the United States
21	38	39	Jimmy Carter	76th Governor of Georgia (1971&€"1975)
22	39	40	Ronald Reagan	33rd Governor of California (1967&€"1975)
23	40	41	George H. W. Bush	43rd Vice President of the United States
24	41	42	Bill Clinton	40th & 42nd Governor of Arkansas (1979&€"1981 & 19
25	42	43	George W. Bush	46th Governor of Texas (1995&€"2000)
26	43	44	Barack Obama	U.S. Senator (Class 3) from Illinois (2005&€"2008)
27	43	44	Barack Obama	U.S. Senator (Class 3) from Illinois (2005&€"2008)
28	44	45	Donald Trump	Chairman of The Trump Organization (1971&€"presen

Output: All have the same format i.e short date

	D	E	F	G	H	I	J	K
25	rover Cleveland	22nd President of the United States (1885&€"1898)	Democratic	Adlai Stevenson	Adlai Stevenson	175000	7/14/2021	3/4/2012
26	William McKinley	39th Governor of Ohio (1892&€"1896)	Republican	Garret Hobart	Garret Hobart	185000	7/14/2021	3/4/2012
27	Theodore Roosevelt	25th Vice President of the United States	Republican	Office vacant	Office vacant	195000	7/14/2021	3/4/2012
28	William Howard Taft	42nd United States Secretary of War (1904&€"1908)	Republican	James S. Sherman	James S. Sherman	205000	7/14/2021	3/4/2012
29	Woodrow Wilson	34th Governor of New Jersey (1911&€"1913)	Democratic	Thomas R. Marshall	Thomas R. Marshall	225000	7/14/2021	3/4/2012
30	Woodrow Wilson	34th Governor of New Jersey (1911&€"1913)	Democratic	Thomas R. Marshall	Thomas R. Marshall	225000	7/14/2021	3/4/2012
31	Warren G. Harding	U.S. Senator (Class 3) from Ohio (1915&€"1921)	Republican	Calvin Coolidge	Calvin Coolidge	235000	7/14/2021	3/4/2012
32	Calvin Coolidge	29th Vice President of the United States	Republican	Office vacant	Office vacant	245000	7/14/2021	3/4/2012
33	Herbert Hoover	3rd United States Secretary of Commerce (1921&€"1929)	Republican	Charles Curtis	Charles Curtis	255000	7/14/2021	3/4/2012
34	Franklin D. Roosevelt	44th Governor of New York (1929&€"1932)	Democratic	John Nance Garner	John Nance Garner	265000	7/14/2021	3/4/2012
35	Harry S. Truman	34th Vice President of the United States	Democratic	Office vacant	Office vacant	275000	7/14/2021	3/4/2012
36	Dwight D. Eisenhower	Supreme Allied Commander Europe (1949&€"1952)	Republican	Richard Nixon	Richard Nixon	285000	7/14/2021	3/4/2012
37	John F. Kennedy	U.S. Senator (Class 1) from Massachusetts (1953&€"1960)	Democratic	Lyndon B. Johnson	Lyndon B. Johnson	295000	7/14/2021	3/4/2012
38	Lyndon B. Johnson	37th Vice President of the United States	Democratic	Office vacant	Office vacant	305000	7/14/2021	3/4/2012
39	Richard Nixon	36th Vice President of the United States (1953&€"1961)	Republican	Spiro Agnew	Spiro Agnew	315000	7/14/2021	3/4/2012
40	Gerald Ford	40th Vice President of the United States	Republican	Office vacant	Office vacant	325000	7/14/2021	3/4/2012
41	Jimmy Carter	76th Governor of Georgia (1971&€"1975)	Democratic	Walter Mondale	Walter Mondale	335000	7/14/2021	3/4/2012
42	Ronald Reagan	33rd Governor of California (1967&€"1975)	Republican	George H. W. Bush	George H. W. Bush	345000	7/14/2021	3/4/2012
43	George H. W. Bush	43rd Vice President of the United States	Republican	Dan Quayle	Dan Quayle	355000	7/14/2021	3/4/2012
44	Bill Clinton	40th & 42nd Governor of Arkansas (1979&€"1981 & 1993)	Democratic	Al Gore	Al Gore	365000	7/14/2021	3/4/2012
45	George W. Bush	46th Governor of Texas (1995&€"2000)	Republican	Dick Cheney	Dick Cheney	375000	7/14/2021	3/4/2012
46	Barack Obama	U.S. Senator (Class 3) from Illinois (2005&€"2008)	Democratic	Joe Biden	Joe Biden	395000	7/14/2021	2/1/2020
47	Donald Trump	Chairman of The Trump Organization (1971&€"present)	Republican	Mike Pence	Mike Pence	405000	7/14/2021	2/1/2020

Now, deleting the columns which are not required for us to analyze.

- 1] We have two serial no. column which is not required, I have deleted the column.
- 2] The prior Column as so much data which looks like we do not require those details and hence we are deleting that data as well, as shown in the below.

When we compare the raw data we got, the below is the much cleaner version of the data and looks good for analysis and to do the visualization.

H11							
	A	B	C	D	E	F	G
1	S.No.	president-Fixed	party	Vice	salary	date updated	date created
2	1	George Washington	Nonpartisan	John Adams	5000	7/14/2021	3/4/2012
3	2	John Adams	Federalist	Thomas Jefferson	10000	7/14/2021	3/4/2012
4	3	Thomas Jefferson	Democratic- Republican	Aaron Burr	15000	7/14/2021	3/4/2012
5	4	James Madison	Democratic- Republican	George Clinton	20000	7/14/2021	3/4/2012
6	5	James Monroe	Democratic- Republican	Daniel D. Tompkins	25000	7/14/2021	3/4/2012
7	6	John Quincy Adams	Democratic- Republican	John C. Calhoun	30000	7/14/2021	3/4/2012
8	7	Andrew Jackson	Democratic	John C. Calhoun	35000	7/14/2021	3/4/2012
9	8	Martin Van Buren	Democratic	Richard Mentor Johnson	40000	7/14/2021	3/4/2012
10	9	William Henry Harrison	Whig	John Tyler	45000	7/14/2021	3/4/2012
11	10	John Tyler	Whig	Office vacant	50000	7/14/2021	3/4/2012
12	11	James K. Polk	Democratic	George M. Dallas	55000	7/14/2021	3/4/2012
13	12	Zachary Taylor	Whig	Millard Fillmore	60000	7/14/2021	3/4/2012
14	13	Millard Fillmore	Whig	Office vacant	65000	7/14/2021	3/4/2012
15	14	Franklin Pierce	Democratic	William R. King	75000	7/14/2021	3/4/2012
16	15	James Buchanan	Democratic	John C. Breckinridge	85000	7/14/2021	3/4/2012
17	16	Abraham Lincoln	Republican	Hannibal Hamlin	95000	7/14/2021	3/4/2012
18	17	Andrew Johnson	Democratic	Office vacant	105000	7/14/2021	3/4/2012
19	18	Ulysses S. Grant	Republican	Schuyler Colfax	115000	7/14/2021	3/4/2012
20	19	Rutherford B. Hayes	Republican	William A. Wheeler	125000	7/14/2021	3/4/2012
21	20	James A. Garfield	Republican	Chester A. Arthur	135000	7/14/2021	3/4/2012
22	21	Chester A. Arthur	Republican	Office vacant	145000	7/14/2021	3/4/2012
23	22	Grover Cleveland	Democratic	Thomas A. Hendricks	155000	7/14/2021	3/4/2012
24	23	Benjamin Harrison	Republican	Levi P. Morton	165000	7/14/2021	3/4/2012
25	24	Grover Cleveland	Democratic	Adlai Stevenson	175000	7/14/2021	3/4/2012
26	25	William Mckinley	Republican	Garret Hobart	185000	7/14/2021	3/4/2012
27	26	Theodore Roosevelt	Republican	Office vacant	195000	7/14/2021	3/4/2012