import pandas as pd

df = pd.read_excel("Cleaning-Data-2.xlsx","RAW DATA-2")
df.style.applymap(lambda x: 'background : red' if pd.isna(x) else '')
df

41 to 50 of 53 entries Filter index S.No. president date updated date created prior party vice salary 2021-07-14 2012-03-04 George H. W. 40 41 43rd Vice President of the United States Republican Dan Quayle NaN Bush 00:00:00 00:00:00 40th & 42nd Governor of Arkansas (1979–1981 & 2021-07-14 2012-03-04 Democratic Al Gore 42 Bill Clinton 365000.0 1983–1992) 00:00:00 00:00:00 2021-07-14 2012-03-04 43 George W. Bush 46th Governor of Texas (1995–2000) Republican Dick Cheney 375000.0 42 00:00:00 00:00:00 2021-07-14 00:00:00 U.S. Senator (Class 3) from Illinois (2005–2008 2012-03-04 Democratic Joe Biden 395000.0 43 44 Barack Obama 00:00:00 Chairman of The Trump Organization (2021-07-14 2020-02-01 405000.0 45 Donald Trump Republican Mike Pence 00:00:00 1971–present) 00:00:00 2021-07-14 2012-03-04 325000.0 38 Gerald Ford 40th Vice President of the United States Republican Office vacant 00:00:00 00:00:00 2021-07-14 2012-03-04 76th Governor of Georgia (1971–1975) Democratic Walter Mondale 46 39 Jimmy Carter 00:00:00 00:00:00

df = df.drop_duplicates()

df

							41 to 46 of 46 entrie	es Filter 🛚 ?
index	S.No.	president	prior	party	vice	salary	date updated	date created
40	41	George H. W. Bush	43rd Vice President of the United States	Republican	Dan Quayle	NaN	2021-07-14 00:00:00	2012-03-04 00:00:00
41	42	Bill Clinton	40th & 42nd Governor of Arkansas (1979–1981 & 1983–1992)	Democratic	Al Gore	365000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
42	43	George W. Bush	46th Governor of Texas (1995–2000)	Republican	Dick Cheney	375000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
43	44	Barack Obama	U.S. Senator (Class 3) from Illinois (2005–2008)	Democratic	Joe Biden	395000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
44	45	Donald Trump	Chairman of The Trump Organization (1971–present)	Republican	Mike Pence	405000.0	2021-07-14 00:00:00	2020-02-01 00:00:00

pd.options.mode.chained_assignment = None
df['salary']=df['salary'].fillna(df.groupby('party')['salary'].transform(lambda x: x.shift().expanding().mean()))
df

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ndex	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	5000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
1	2	John Adams	1st Vice President of the United States	Federalist	Thomas Jefferson	12000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
2	3	Thomas Jefferson	2nd Vice President of the United States	Democratic- Republican	Aaron Burr	15000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
3	4	James Madison	5th United States Secretary of State (1801–1809)	Democratic- Republican	George Clinton	20000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
4	5	James Monroe	7th United States Secretary of State (1811–1817)	Democratic- Republican	Daniel D. Tompkins	17500.0	2021-07-14 00:00:00	2012-03-04 00:00:00
5	6	John Quincy Adams	8th United States Secretary of State (1817–1825)	Democratic- Republican	John C. Calhoun	30000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
6	7	Andrew Jackson	U.S. Senator (Class 2) from Tennessee (1823–1825)	Democratic	John C. Calhoun	35000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
7	8	Martin Van Buren	8th Vice President of the United States	Democratic	Richard Mentor Johnson	40000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
8	9	William Henry Harrison	United States Minister to Colombia (1828–1829)	Whig	John Tyler	45000.0	2021-07-14 00:00:00	2012-03-04 00:00:00
9	10	John Tyler	10th Vice President of the United States	Whig	Office vacant	45000.0	2021-07-14 00:00:00	2012-03-04 00:00:00

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Like what you see? Visit the <u>data table notebook</u> to learn more about interactive tables.