

The first page showcases the initial scenario:

You were hired by a small debt agency in Washington, DC, that specializes in analyzing and forecasting public and private debt.

The US government has requested an analysis of its public and governmental debt to answer the questions below.

Using the Questions and Data Dictionary Provided, answer the questions using charts/graphs and narratives.

The questions are the following:

1. **What was the Yearly Debt Percentage Increase for each year compared to the previous year?**
2. **Which months historically have seen the highest/lowest increases in Total debt?**
3. **What is the projected growth of the publicly held debt in the next few years?**

The 2nd and 3rd pages showcase how the data is initially available once downloaded. Next, on page 4, I transpose the data, clean it, and present it in a more readable format.

For the first question (**Which months historically have seen the highest/lowest increases in Total debt?**), I gather the ending totals for private and public debt for each year (Debt Held by the Public, Intragovernmental Holdings, Total Public Debt Outstanding) and calculate the percentage increase each year with the formula:

- $(\text{Present total} / \text{Last year's total}) / \text{Last year's total} * 100$

Next, I created a chart based on the percentages to showcase this information.

For question 2 (**Which months historically have seen the highest/lowest increases in Total debt?**), I created a table based on the data and Total Public Debt Outstanding. I then created a pivot table with the table and aggregated the average Total Public Debt Outstanding for each month. With this information, I made a line chart illustrating the monthly movement of the outstanding public debt.

Lastly, for question 3 (**What is the projected growth of the publicly held debt in the next few years?**), I made a table of the entire data set once more. I then made a pivot table of the maximum debt held by the public every year. Afterward, I created a new table that forecasted 2024, 2025, 2026, and 2027 using the FORECAST FUNCTION to estimate what the public would look like.

AutoSaveOff

US Debt Tracker Project

Search

Gabriel Garcia

FileHomeInsertPage LayoutFormulasDataReviewViewAutomateDeveloperHelpPower Pivot

Paste

CutCopy

Format Painter

Clipboard

Calibri11

B*I*U

Font

Wrap Text

Alignment

General

\$% $\frac{\Box}{\Box}$

Number

Conditional Formatting

Format as Table

Normal

Bad

Good

Neutral

Styles

Insert

Delete

Format

Cells

AutoSum

Fill

Clear

Editing

Sort & Filter

Find & Select

Sensitivity

Add-ins

Analyze Data

CommentsShare

D19

1	Scenario			
2	Scenario			
3				
4	You were hired by a small debt agency in Washington DC that specializes in analyzing and forecasting public and private debt.			
5	The US Governement has requested an analysis of their public and governemental debt to answer some specific questions below.			
6		Data Dictionary	Definition	
7		Debt Held by the Public	This is the portion of the US public debt that is held by individuals, corporations, foreign governments, and other entities outside of the US government.	
8		Intragovernmental Holdings	This is the portion of the US public debt that is held by other US government agencies.	
9	Using the Questions and Data Dictionary Provided, answer the questions using charts/graphs and narratives.	Total Public Debt Outstandin	This is the sum of the debt held by the public and intragovernmental holdings.	
10				
11				
12				
13				
14				
15				
16	Column1			
17	Questions			
18	What was the Yearly Debt Percentage Increase for each year compared to the previous year?			
19	Which months historically have seen the highest/lowest increases in Total debt?			
20	What is the projected growth of the publicly held debt in the next few years?			
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				

<>

ScenarioRaw DataCleaned DataQuestion 1Question 2Question 3Final Outputs

ReadyAccessibility: Investigate

100%

AutoSaveOff

US Debt Tracker Project

Search

Gabriel GarciaGG

FileHomeInsertPage LayoutFormulasDataReviewViewAutomateDeveloperHelpPower Pivot

Paste

Cut

Copy

Format Painter

Clipboard

Calibri

11

A⁺

A⁺

B

I

U

Font

Wrap Text

General

\$

%

Number

Conditional Formatting

Format as Table

Normal

Bad

Good

Neutral

Styles

Insert

Delete

Format

Cells

Σ AutoSum

Fill

Clear

Editing

Sort & Filter

Find & Select

Sensitivity

Add-ins

Analyze Data

L28

	KAG	KAH	KAI	KAJ	KAK	KAL	KAM	KAN	KAO	KAP	KAQ	KAR	KAS	KAT	KAU	KAV	KAW	KAX	KAY	KAZ	KBA	KBB	KBC	KBD	KBE	KBF	KBG	KBH	KBI
1	##	5/7/1993	5/6/1993	5/5/1993	5/4/1993	5/3/1993																4/9/1993	4/8/1993	4/7/1993	4/6/1993	4/5/1993	4/2/1993	4/1/1993	
2	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	
3	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	null	
4	12	4.24E+12	4.24E+12	4.24E+12	4.24E+12	4.24E+12	4.25E+12	4.24E+12	4.24E+12	4.23E+12	4.23E+12	4.23E+12	4.23E+12	4.26E+12	4.25E+12	4.25E+12	4.25E+12	4.25E+12	4.24E+12	4.24E+12	4.24E+12	4.24E+12	4.24E+12	4.25E+12	4.24E+12	4.23E+12	4.23E+12	4.23E+12	
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													
17																													
18																													
19																													
20																													
21																													
22																													
23																													
24																													
25																													
26																													
27																													
28																													
29																													
30																													
31																													
32																													
33																													
34																													
35																													
36																													
37																													

ScenarioRaw DataCleaned DataQuestion 1Question 2Question 3Final Outputs

ReadyAccessibility: Investigate

100%

AutoSaveOff

US Debt Tracker Project

Search

Gabriel Garcia

FileHomeInsertPage LayoutFormulasDataReviewViewAutomateDeveloperHelpPower Pivot

Paste

CutCopy

Format Painter

Clipboard

Calibri11

B I U

Font

Wrap Text

Alignment

Currency

Number

NormalBadGood

Styles

InsertDeleteFormat

Cells

AutoSum

Editing

Sensitivity

Add-ins

Analyze Data

CommentsShare

B7478

fx

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Record Date	Debt Held by the Publi	Intragovernmental Holding	Total Public Debt Outstandin																	
2	2/15/2023	\$24,632,700,000,000.00	\$6,822,180,000,000.00	\$31,454,900,000,000.00																	
3	2/14/2023	\$24,620,800,000,000.00	\$6,834,290,000,000.00	\$31,455,100,000,000.00																	
4	2/13/2023	\$24,628,400,000,000.00	\$6,825,950,000,000.00	\$31,454,300,000,000.00																	
5	2/10/2023	\$24,632,000,000,000.00	\$6,823,770,000,000.00	\$31,455,700,000,000.00																	
6	2/9/2023	\$24,632,700,000,000.00	\$6,823,510,000,000.00	\$31,456,200,000,000.00																	
7	2/8/2023	\$24,634,000,000,000.00	\$6,820,670,000,000.00	\$31,454,600,000,000.00																	
8	2/7/2023	\$24,615,800,000,000.00	\$6,839,350,000,000.00	\$31,455,100,000,000.00																	
9	2/6/2023	\$24,625,700,000,000.00	\$6,828,640,000,000.00	\$31,454,300,000,000.00																	
10	2/3/2023	\$24,632,500,000,000.00	\$6,823,160,000,000.00	\$31,455,700,000,000.00																	
11	2/2/2023	\$24,614,100,000,000.00	\$6,842,050,000,000.00	\$31,456,200,000,000.00																	
12	2/1/2023	\$24,627,900,000,000.00	\$6,826,660,000,000.00	\$31,454,500,000,000.00																	
13	1/31/2023	\$24,584,000,000,000.00	\$6,870,990,000,000.00	\$31,455,000,000,000.00																	
14	1/30/2023	\$24,591,500,000,000.00	\$6,864,450,000,000.00	\$31,455,900,000,000.00																	
15	1/27/2023	\$24,594,500,000,000.00	\$6,862,740,000,000.00	\$31,457,200,000,000.00																	
16	1/26/2023	\$24,595,400,000,000.00	\$6,862,330,000,000.00	\$31,457,700,000,000.00																	
17	1/25/2023	\$24,601,700,000,000.00	\$6,852,680,000,000.00	\$31,454,400,000,000.00																	
18	1/24/2023	\$24,588,000,000,000.00	\$6,866,820,000,000.00	\$31,454,800,000,000.00																	
19	1/23/2023	\$24,597,100,000,000.00	\$6,856,630,000,000.00	\$31,453,700,000,000.00																	
20	1/20/2023	\$24,597,700,000,000.00	\$6,857,270,000,000.00	\$31,455,000,000,000.00																	
21	1/19/2023	\$24,597,700,000,000.00	\$6,857,680,000,000.00	\$31,455,400,000,000.00																	
22	1/18/2023	\$24,529,300,000,000.00	\$6,885,100,000,000.00	\$31,414,400,000,000.00																	
23	1/17/2023	\$24,529,100,000,000.00	\$6,887,370,000,000.00	\$31,416,400,000,000.00																	
24	1/13/2023	\$24,509,000,000,000.00	\$6,875,440,000,000.00	\$31,384,500,000,000.00																	
25	1/12/2023	\$24,509,000,000,000.00	\$6,875,220,000,000.00	\$31,384,200,000,000.00																	
26	1/11/2023	\$24,503,900,000,000.00	\$6,871,210,000,000.00	\$31,375,100,000,000.00																	
27	1/10/2023	\$24,503,800,000,000.00	\$6,891,320,000,000.00	\$31,395,100,000,000.00																	
28	1/9/2023	\$24,510,500,000,000.00	\$6,878,390,000,000.00	\$31,388,900,000,000.00																	
29	1/6/2023	\$24,510,700,000,000.00	\$6,874,750,000,000.00	\$31,385,400,000,000.00																	
30	1/5/2023	\$24,510,300,000,000.00	\$6,870,010,000,000.00	\$31,380,300,000,000.00																	
31	1/4/2023	\$24,507,800,000,000.00	\$6,867,740,000,000.00	\$31,375,500,000,000.00																	
32	1/3/2023	\$24,507,600,000,000.00	\$6,843,630,000,000.00	\$31,351,200,000,000.00																	
33	12/30/2022	\$24,517,600,000,000.00	\$6,902,100,000,000.00	\$31,419,700,000,000.00																	
34	12/29/2022	\$24,476,200,000,000.00	\$6,850,120,000,000.00	\$31,326,300,000,000.00																	
35	12/28/2022	\$24,475,000,000,000.00	\$6,849,440,000,000.00	\$31,324,400,000,000.00																	
36	12/27/2022	\$24,473,900,000,000.00	\$6,862,120,000,000.00	\$31,336,000,000,000.00																	
37	12/23/2022	\$24,490,200,000,000.00	\$6,855,800,000,000.00	\$31,346,000,000,000.00																	

<>

ScenarioRaw DataCleaned DataQuestion 1Question 2Question 3Final Outputs

ReadyAccessibility: Investigate

100%





