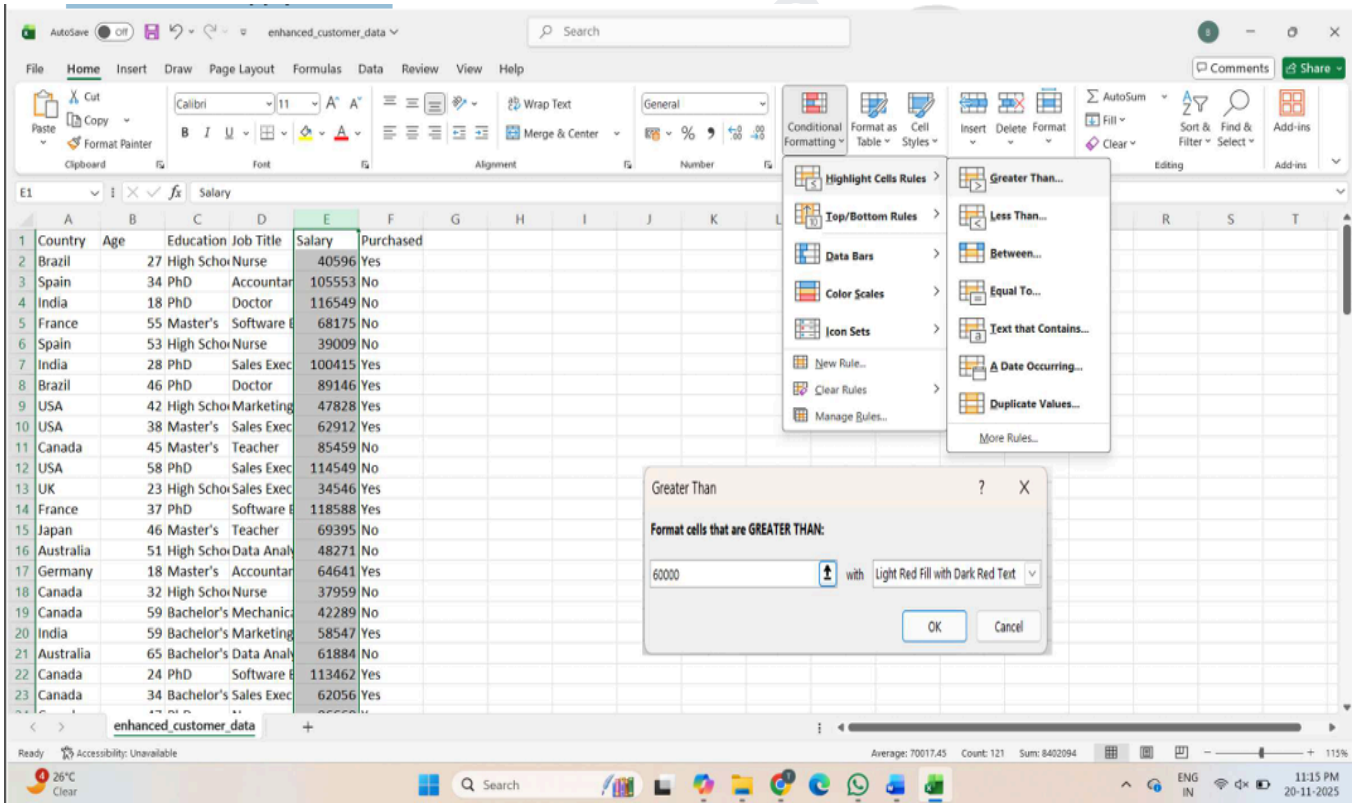
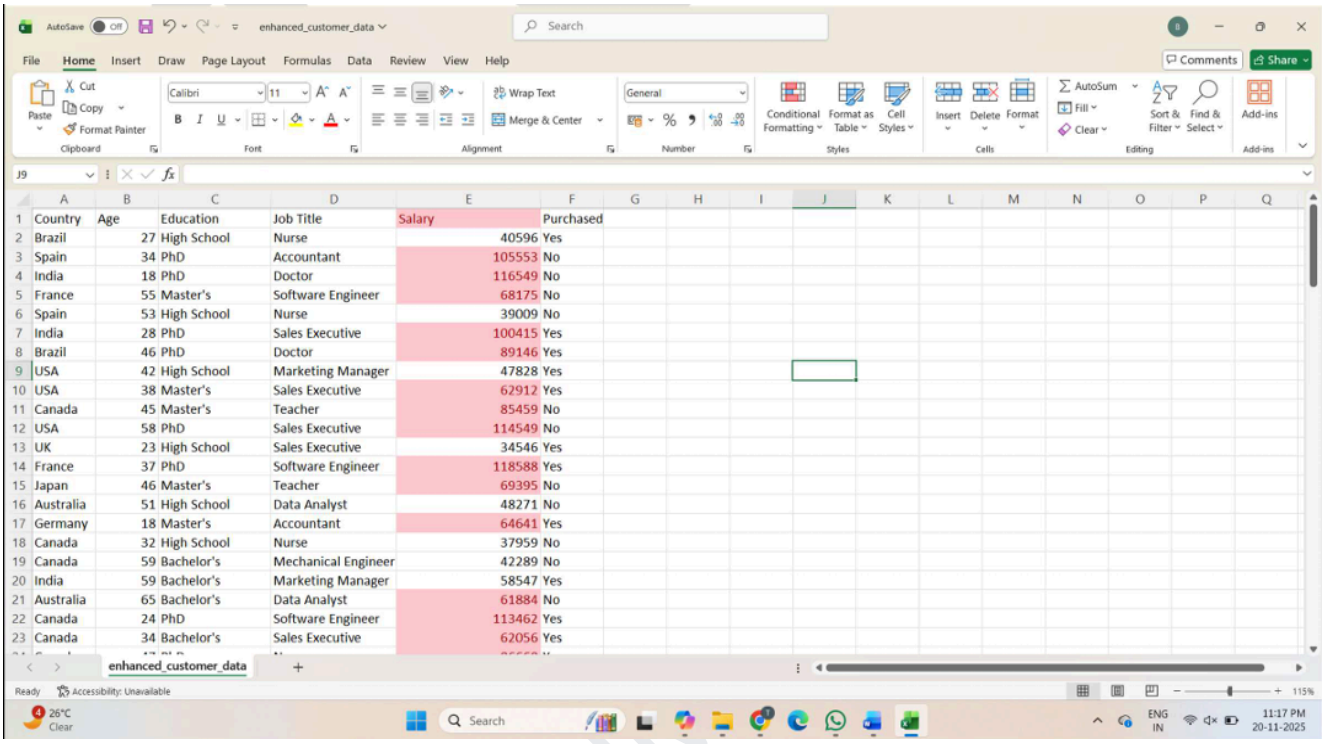
PRACTICAL NO.1

AIM : Introduc on to Excel Perform condi onal forma ng on a dataset using various criteria.
Create a pivot table to analyze and summarize data.
Use VLOOKUP func on to retrieve informa on from a different worksheet or table.
Perform what-if analysis using Goal Seek to determine input values for desired output.
1: Perform condi onal forma ng on a dataset using various criteria.

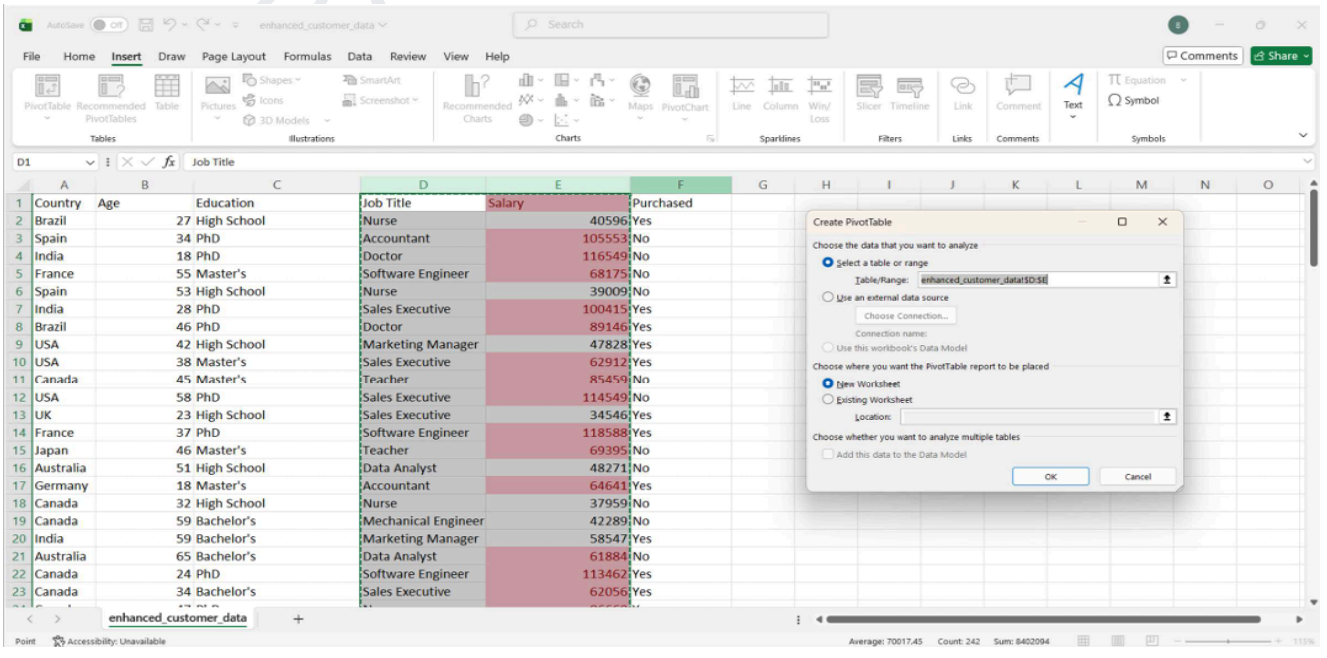
Steps: 1. Select the “Salary” column (Column E).
2. Go to the Home tab on the ribbon.
3. Click on “Condi onal Forma ng” in the toolbar.
4. Choose “Highlight Cells Rules” and then “Greater Than.”
5. Enter the threshold value as 60000.
6. Customize the forma ng op ons (e.g., choose a fill color).
7. Click “OK” to apply the rule.

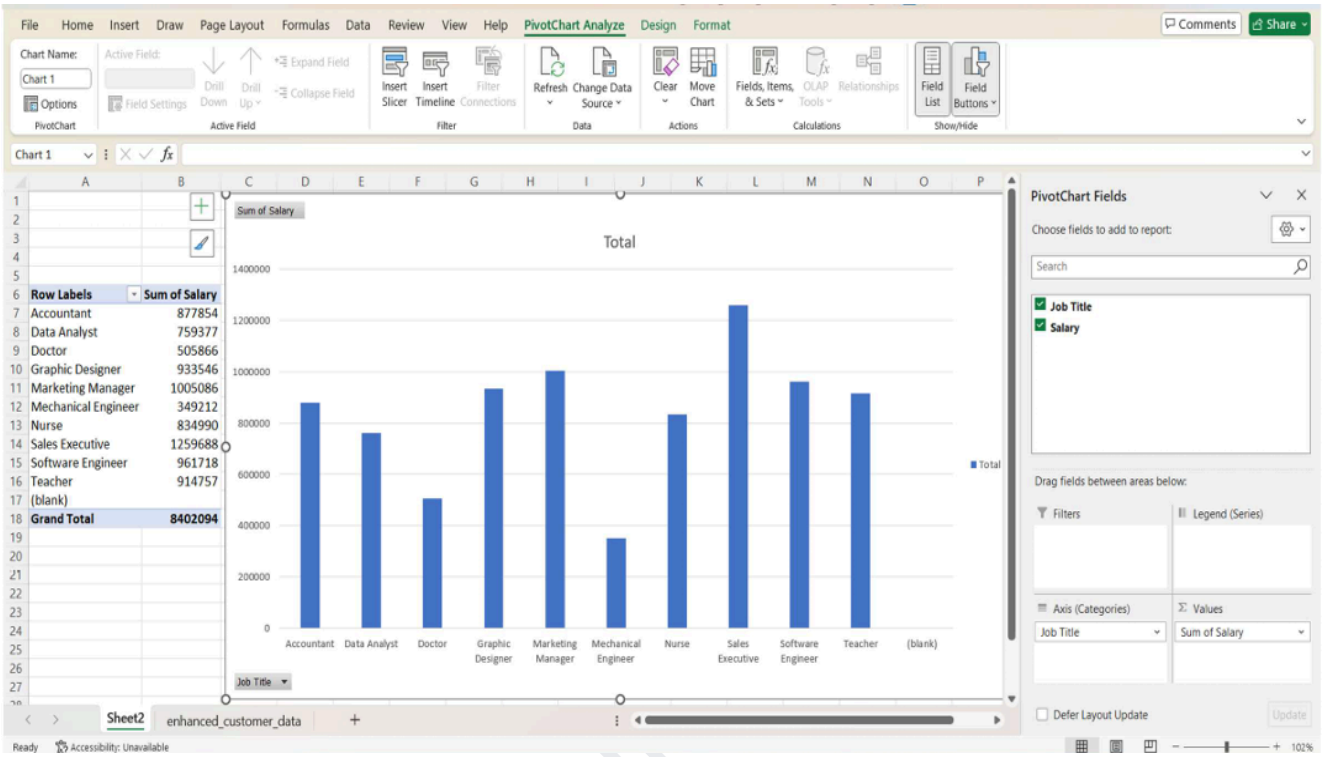




	A	B	C	D	E	F
1	Country	Age	Education	Job Title	Salary	Purchased
2	Brazil	27	High School	Nurse	40596	Yes
3	Spain	34	PhD	Accountant	105553	No
4	India	18	PhD	Doctor	116549	No
5	France	55	Master's	Software Engineer	68175	No
6	Spain	53	High School	Nurse	39009	No
7	India	28	PhD	Sales Executive	100415	Yes
8	Brazil	46	PhD	Doctor	89146	Yes
9	USA	42	High School	Marketing Manager	47828	Yes
10	USA	38	Master's	Sales Executive	62912	Yes
11	Canada	45	Master's	Teacher	85459	No
12	USA	58	PhD	Sales Executive	114549	No
13	UK	23	High School	Sales Executive	34546	Yes
14	France	37	PhD	Software Engineer	118588	Yes
15	Japan	46	Master's	Teacher	69395	No
16	Australia	51	High School	Data Analyst	48271	No
17	Germany	18	Master's	Accountant	64641	Yes
18	Canada	32	High School	Nurse	37959	No
19	Canada	59	Bachelor's	Mechanical Engineer	42289	No
20	India	59	Bachelor's	Marketing Manager	58547	Yes
21	Australia	65	Bachelor's	Data Analyst	61884	No
22	Canada	24	PhD	Software Engineer	113462	Yes
23	Canada	34	Bachelor's	Sales Executive	62056	Yes

2 : Create a pivot table to analyze and summarize data. Steps:
1. Select the en re dataset including headers.
2. Go to the “Insert” tab on the ribbon.
3. Click on “PivotTable”.
4. Choose where you want to place the PivotTable (e.g., new worksheet).
5. Drag “Salary” to the Rows area.
6. Drag “Job Title” to the Values area, choosing the sum func on.

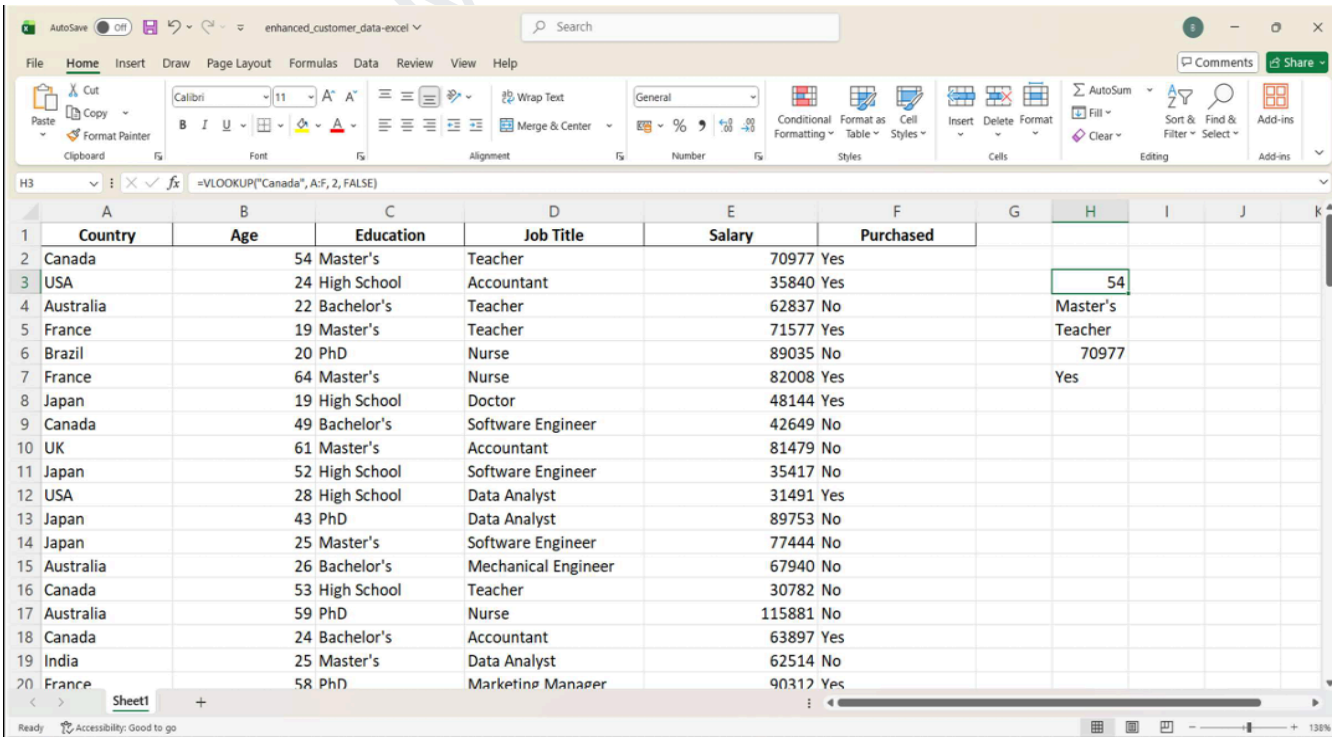




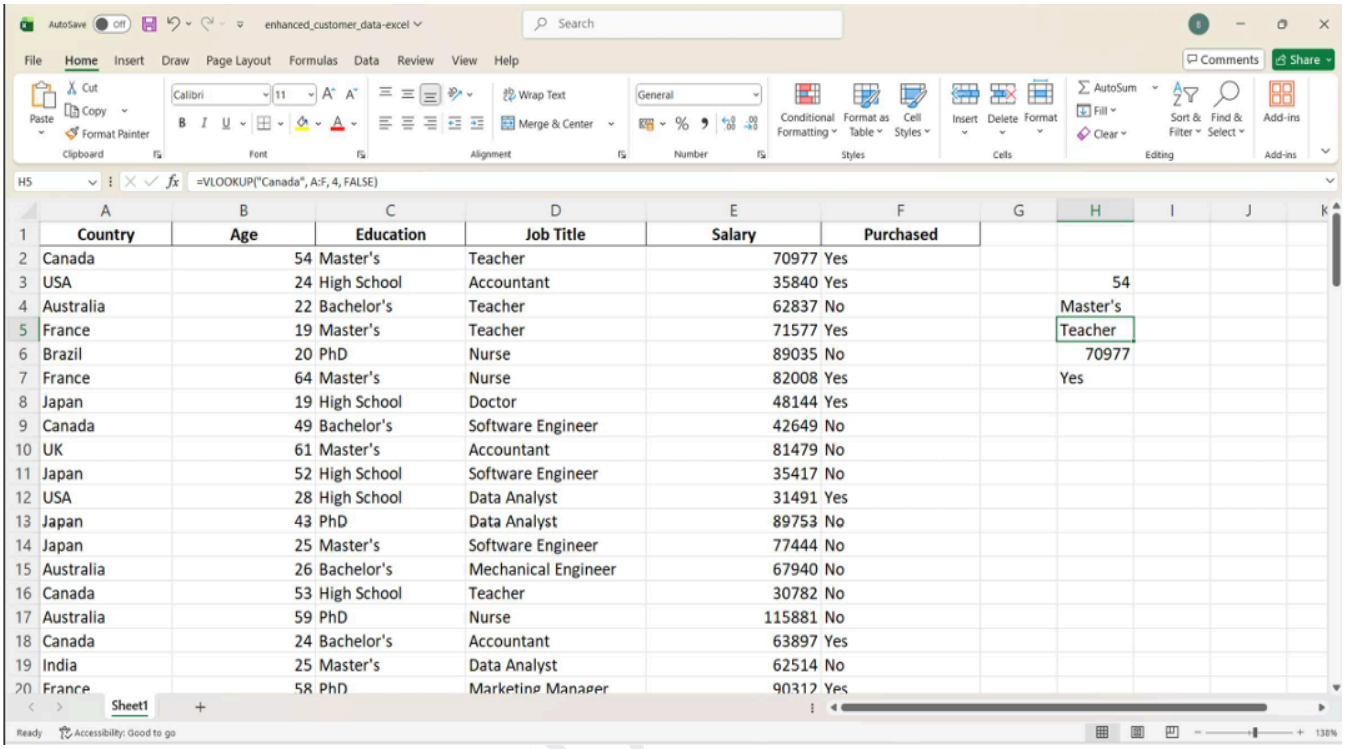
3. Use VLOOKUP func on to retrieve informa on from a different worksheet or table.

Steps:

1. Assuming your “Product Table” is in a different worksheet.
2. In a cell in your main dataset, enter the formula: =VLOOKUP(“Canada”, ‘Coutry Table’!A:B, 2, FALSE)

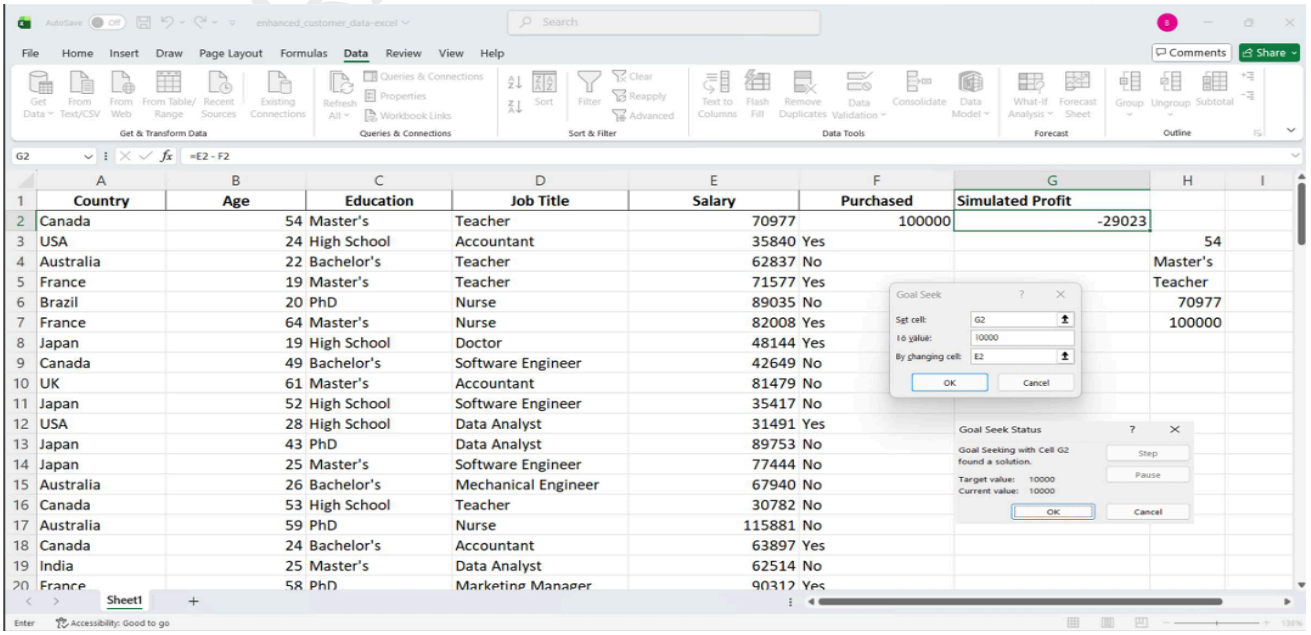


=VLOOKUP("Canada", A:F, 4, FALSE)



	A	B	C	D	E	F	G	H	I	J
1	Country	Age	Education	Job Title	Salary	Purchased				
2	Canada	54	Master's	Teacher	70977	Yes				
3	USA	24	High School	Accountant	35840	Yes		54		
4	Australia	22	Bachelor's	Teacher	62837	No		Master's		
5	France	19	Master's	Teacher	71577	Yes		Teacher		
6	Brazil	20	PhD	Nurse	89035	No		70977		
7	France	64	Master's	Nurse	82008	Yes		Yes		
8	Japan	19	High School	Doctor	48144	Yes				
9	Canada	49	Bachelor's	Software Engineer	42649	No				
10	UK	61	Master's	Accountant	81479	No				
11	Japan	52	High School	Software Engineer	35417	No				
12	USA	28	High School	Data Analyst	31491	Yes				
13	Japan	43	PhD	Data Analyst	89753	No				
14	Japan	25	Master's	Software Engineer	77444	No				
15	Australia	26	Bachelor's	Mechanical Engineer	67940	No				
16	Canada	53	High School	Teacher	30782	No				
17	Australia	59	PhD	Nurse	115881	No				
18	Canada	24	Bachelor's	Accountant	63897	Yes				
19	India	25	Master's	Data Analyst	62514	No				
20	France	58	PhD	Marketing Manager	90312	Yes				

4: Perform what-if analysis using Goal Seek to determine input values for desired output.
Steps: 1. Iden fy the cell containing the formula for "Simulated Profit". This cell is G2
2. Go to the "Data" tab on the ribbon.
3. Click on “What-If Analysis” and select “Goal Seek”
4. In the dialog box: Set "Set cell" to G2 (your formula cell), "To value" to 1000, and "By changing cell" to E2 (your Salary input cell).
5. Click "OK" to let Excel determine the required Salary.



	A	B	C	D	E	F	G	H	I
1	Country	Age	Education	Job Title	Salary	Purchased	Simulated Profit		
2	Canada	54	Master's	Teacher	70977	100000	-29023		
3	USA	24	High School	Accountant	35840	Yes		54	
4	Australia	22	Bachelor's	Teacher	62837	No		Master's	
5	France	19	Master's	Teacher	71577	Yes		Teacher	
6	Brazil	20	PhD	Nurse	89035	No		70977	
7	France	64	Master's	Nurse	82008	Yes		100000	
8	Japan	19	High School	Doctor	48144	Yes			
9	Canada	49	Bachelor's	Software Engineer	42649	No			
10	UK	61	Master's	Accountant	81479	No			
11	Japan	52	High School	Software Engineer	35417	No			
12	USA	28	High School	Data Analyst	31491	Yes			
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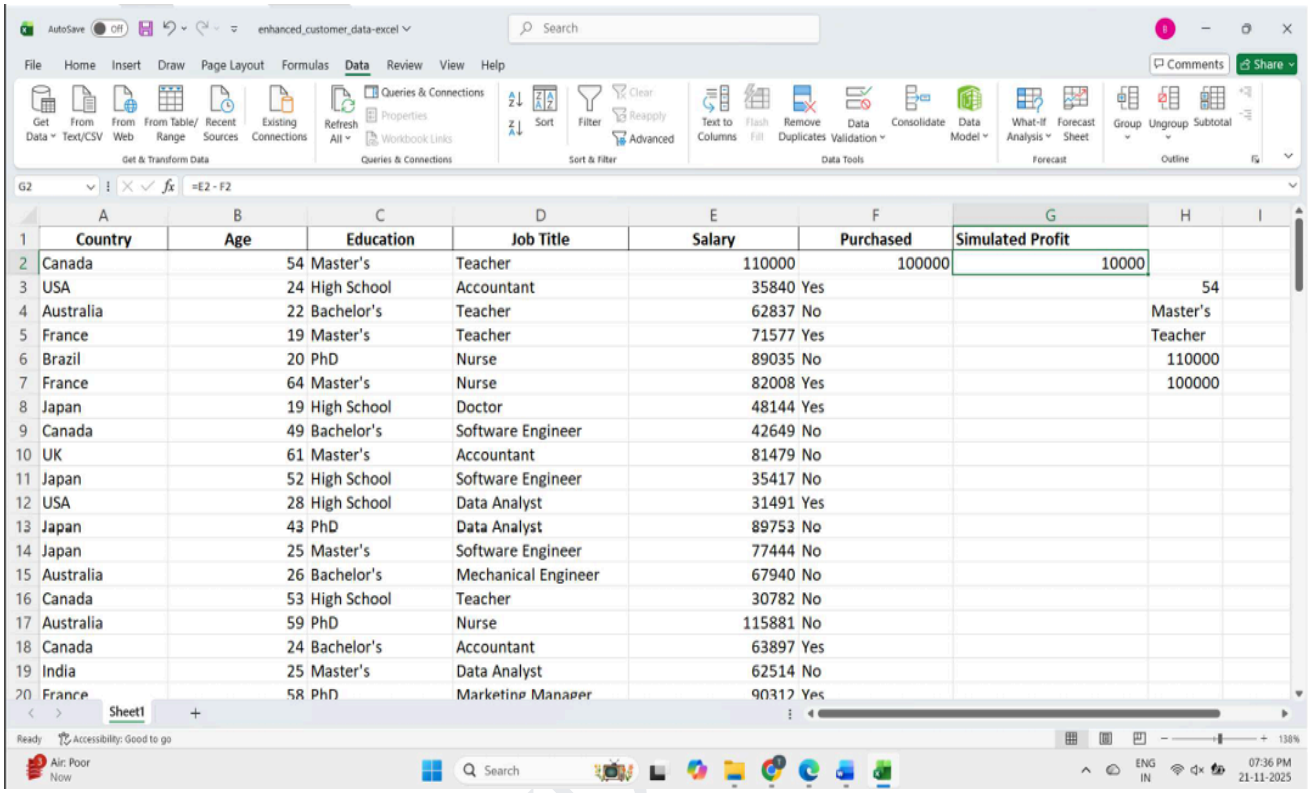

	A	B	C	D	E	F	G	H	I
1	Country	Age	Education	Job Title	Salary	Purchased	Simulated Profit		
2	Canada	54	Master's	Teacher	110000	100000	10000		
3	USA	24	High School	Accountant	35840	Yes		54	
4	Australia	22	Bachelor's	Teacher	62837	No		Master's	
5	France	19	Master's	Teacher	71577	Yes		Teacher	
6	Brazil	20	PhD	Nurse	89035	No		110000	
7	France	64	Master's	Nurse	82008	Yes		100000	
8	Japan	19	High School	Doctor	48144	Yes			
9	Canada	49	Bachelor's	Software Engineer	42649	No			
10	UK	61	Master's	Accountant	81479	No			
11	Japan	52	High School	Software Engineer	35417	No			
12	USA	28	High School	Data Analyst	31491	Yes			
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16	Canada	53	High School	Teacher	30782	No			
17	Australia	59	PhD	Nurse	115881	No			
18	Canada	24	Bachelor's	Accountant	63897	Yes			
19	India	25	Master's	Data Analyst	62514	No			
20	France	58	PhD	Marketing Manager	90312	Yes			