PRACTICAL NO. 1

AIM : Introduction to Excel

- Perform conditional formatting on a dataset using various criteria.
- Create a pivot table to analyze and summarize data.
- Use VLOOKUP function to retrieve information from a different worksheet or table.
- Perform what-if analysis using Goal Seek to determine input values for desired output.

1: Perform conditional formatting on a dataset using various criteria.

Steps: 1. Select the "Salary" column (Column E).

2. Go to the Home tab on the ribbon.

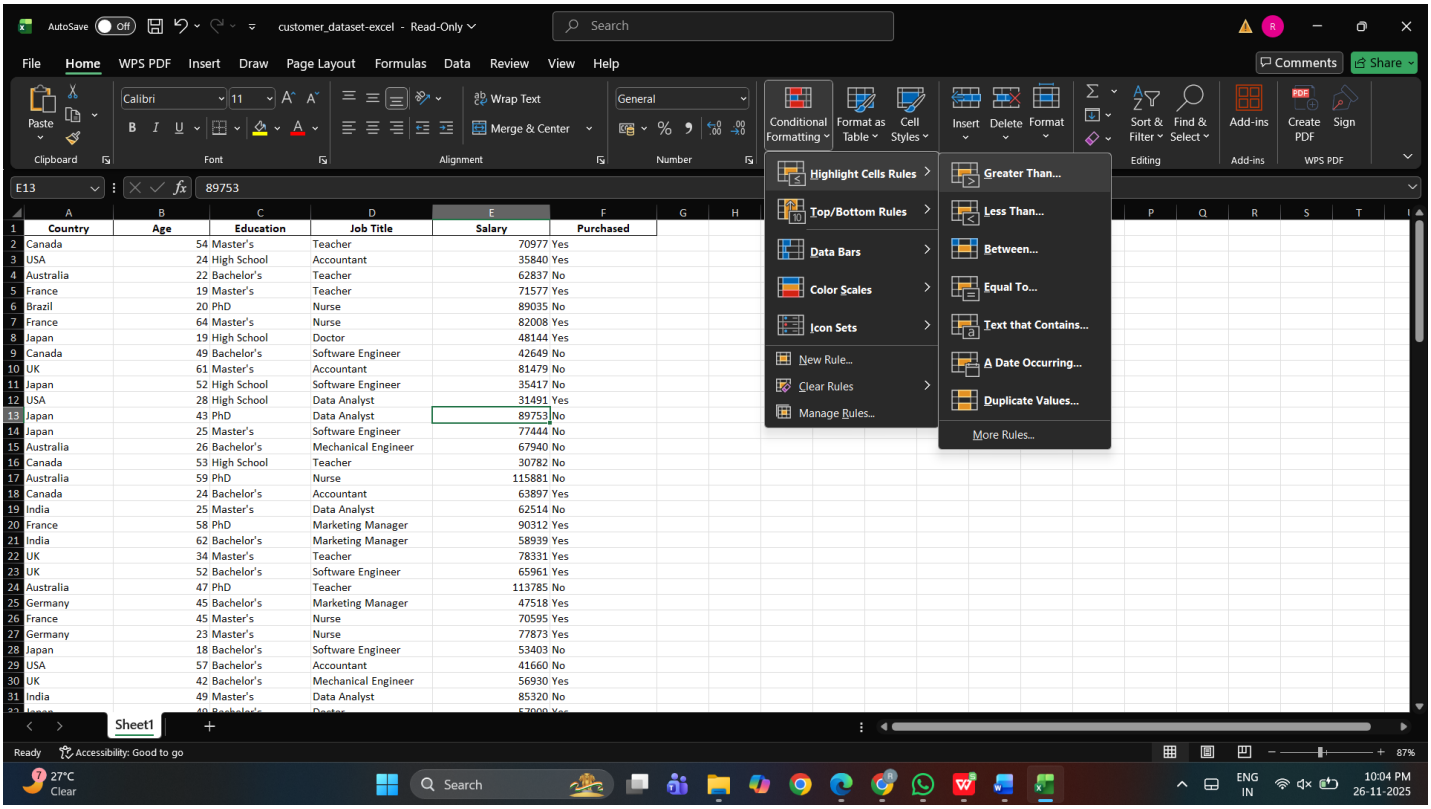
3. Click on "Conditional Formatting" in the toolbar.

4. Choose "Highlight Cells Rules" and then "Greater Than."

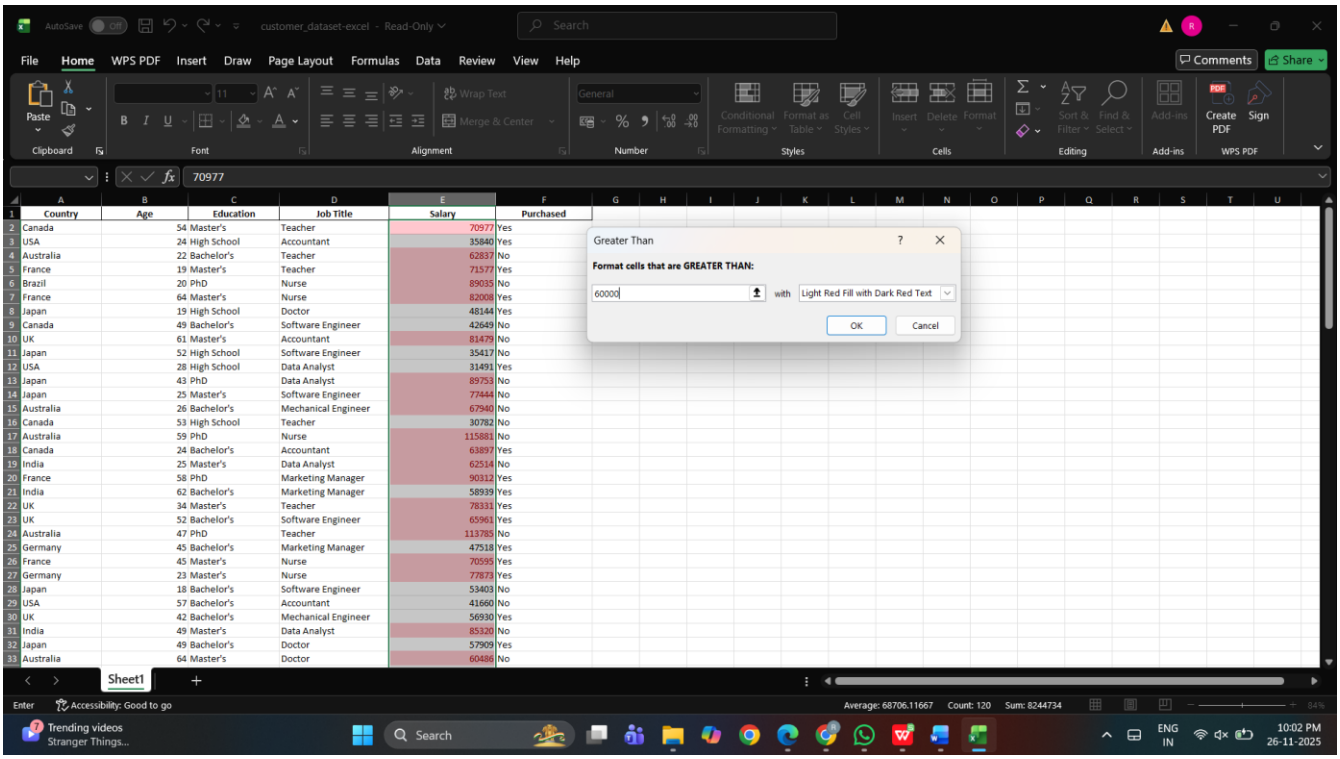
5. Enter the threshold value as 60000.

6. Customize the formatting options (e.g., choose a fill color).

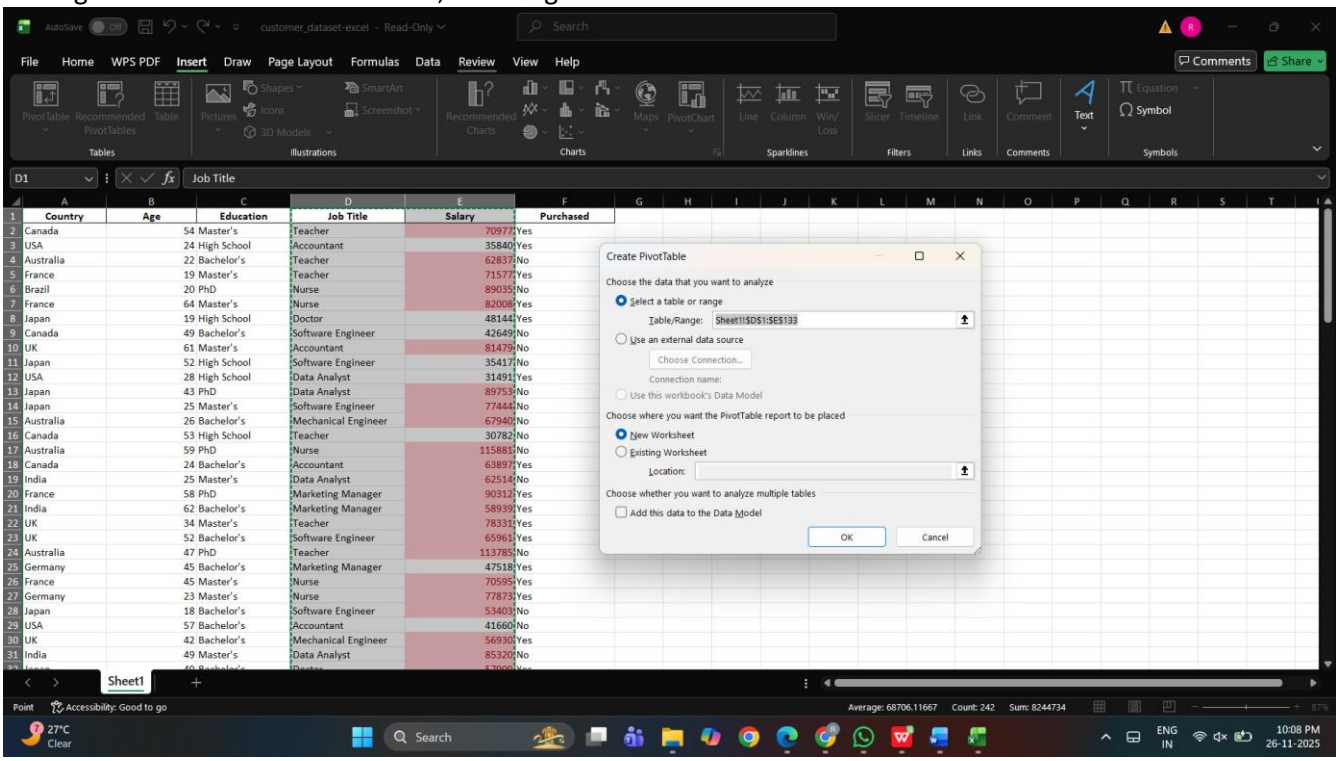
7. Click "OK" to apply the rule.

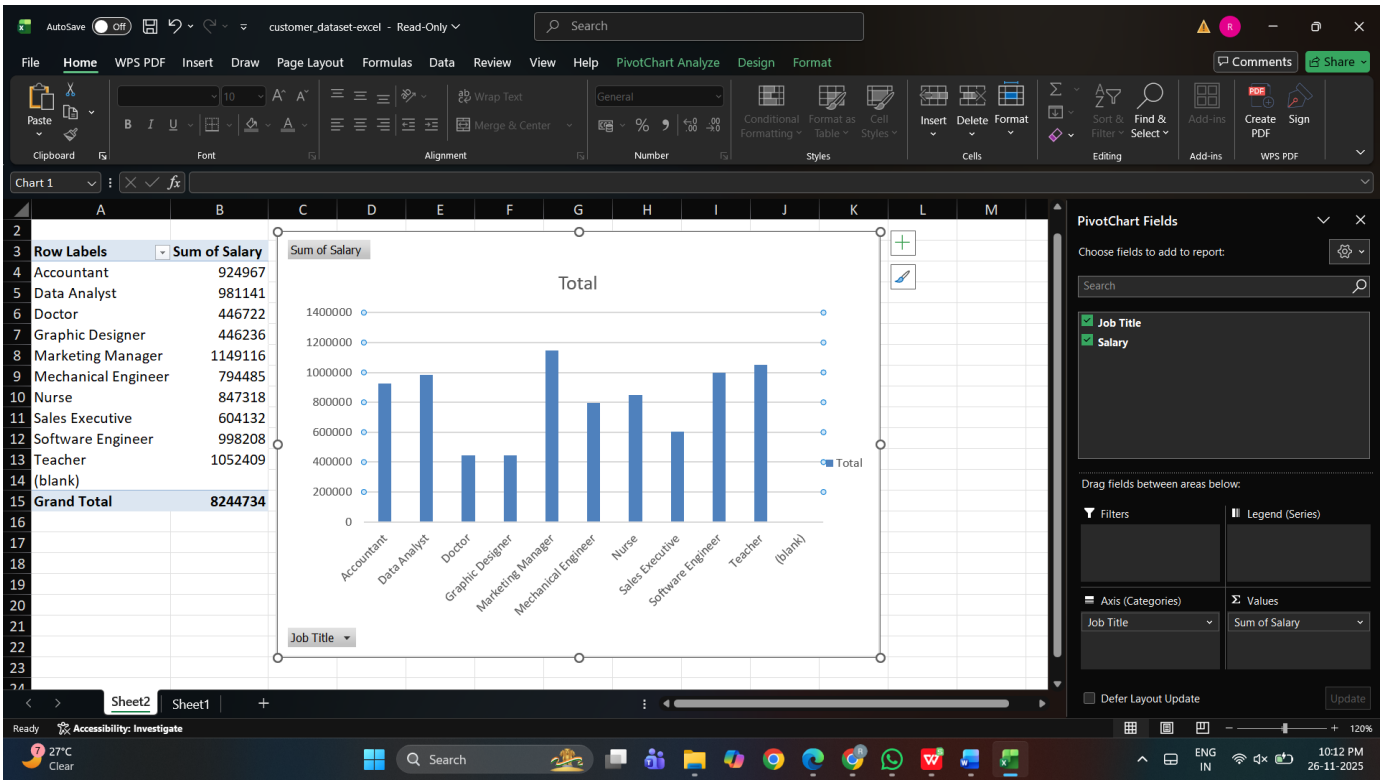


Country	Age	Education	Job Title	Salary	Purchased
Canada	54	Master's	Teacher	70977	Yes
USA	24	High School	Accountant	35840	Yes
Australia	22	Bachelor's	Teacher	62837	No
France	19	Master's	Teacher	71577	Yes
Brazil	20	PhD	Nurse	89035	No
France	64	Master's	Nurse	82008	Yes
Japan	19	High School	Doctor	48144	Yes
Canada	49	Bachelor's	Software Engineer	42649	No
UK	61	Master's	Accountant	81479	No
Japan	52	High School	Software Engineer	35417	No
USA	28	High School	Data Analyst	31491	Yes
Japan	43	PhD	Data Analyst	89753	No
Japan	25	Master's	Software Engineer	77444	No
Australia	26	Bachelor's	Mechanical Engineer	67940	No
Canada	53	High School	Teacher	30782	No
Australia	59	PhD	Nurse	115881	No
Canada	24	Bachelor's	Accountant	63897	Yes
India	25	Master's	Data Analyst	62514	No
France	58	PhD	Marketing Manager	90312	Yes
India	62	Bachelor's	Marketing Manager	58939	Yes
UK	34	Master's	Teacher	78331	Yes
UK	52	Bachelor's	Software Engineer	65961	Yes
Australia	47	PhD	Teacher	113785	No
Germany	45	Bachelor's	Marketing Manager	47518	Yes
France	45	Master's	Nurse	70595	Yes
Germany	23	Master's	Nurse	77873	Yes
Japan	18	Bachelor's	Software Engineer	53403	No
USA	57	Bachelor's	Accountant	41660	No
UK	42	Bachelor's	Mechanical Engineer	56930	Yes
India	49	Master's	Data Analyst	85320	No



2 : Create a pivot table to analyze and summarize data.
Steps: 1. Select the entire 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 function.

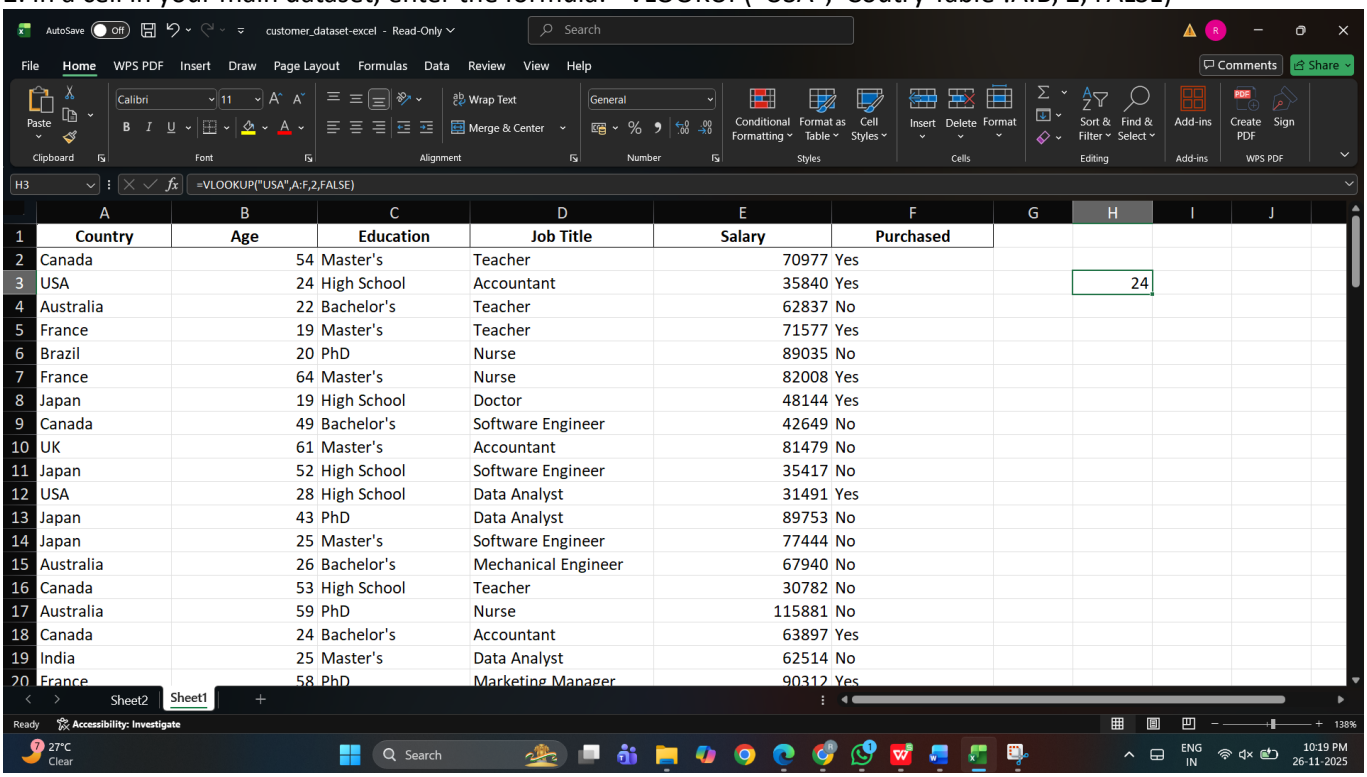


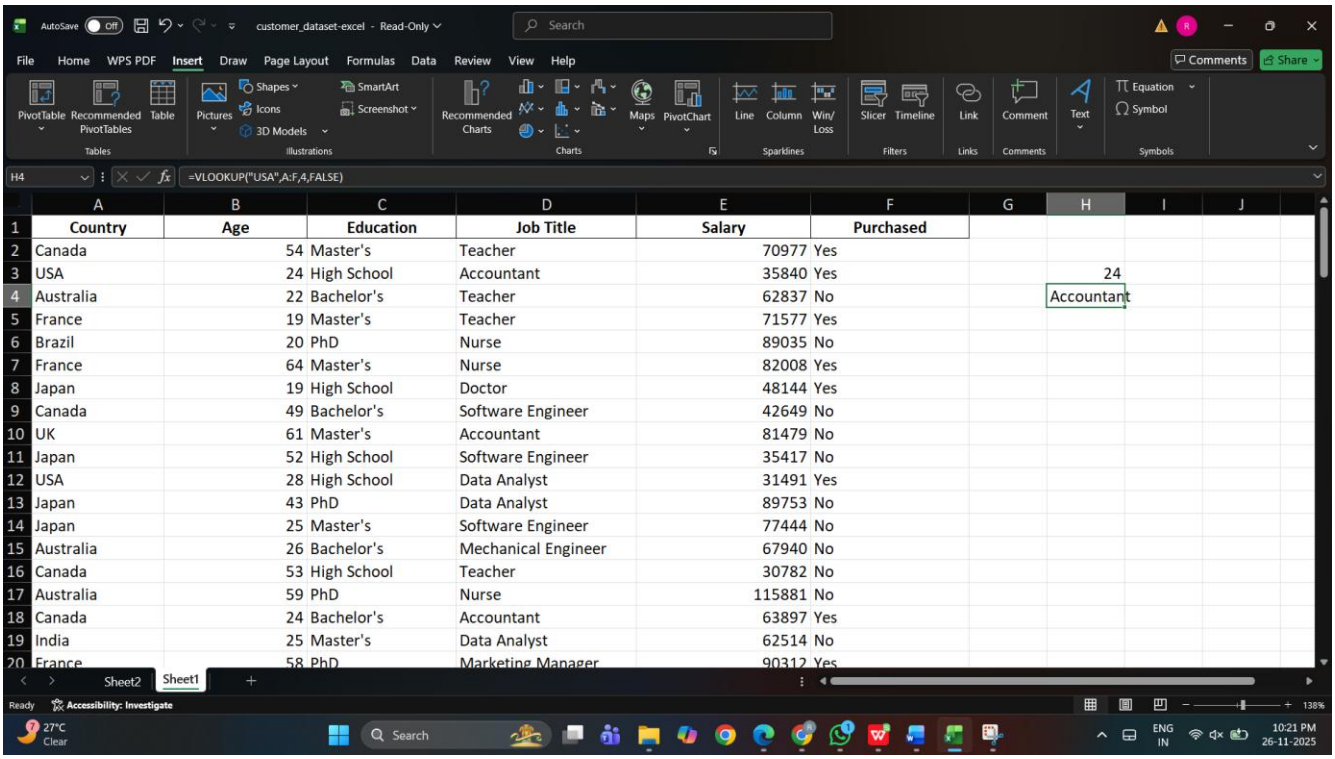


3. Use VLOOKUP function to retrieve information from a different worksheet or table.

Steps:

1. Assuming your "Product Table" is in a different worksheet.
2. In a cell in your main dataset, enter the formula: =VLOOKUP("USA", 'Coutry Table'!A:B, 2, FALSE)

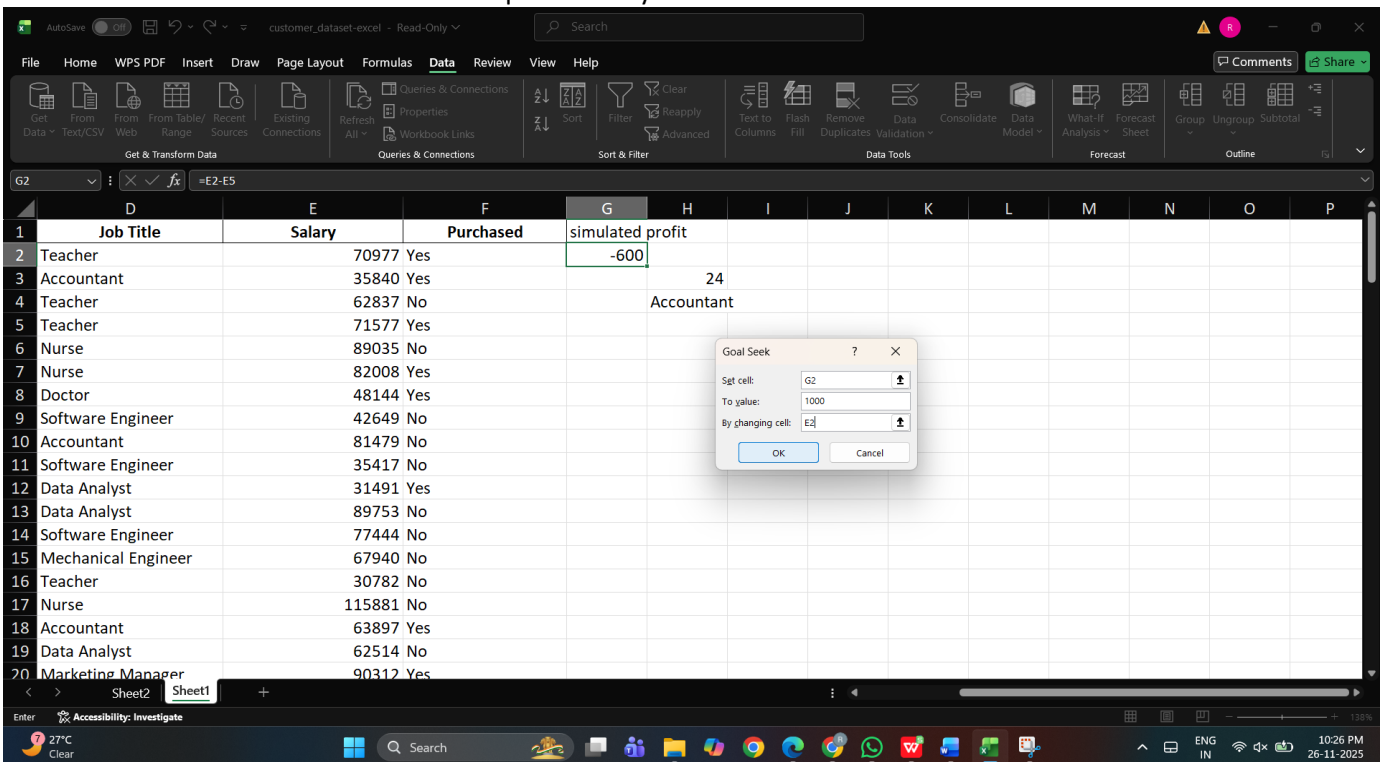




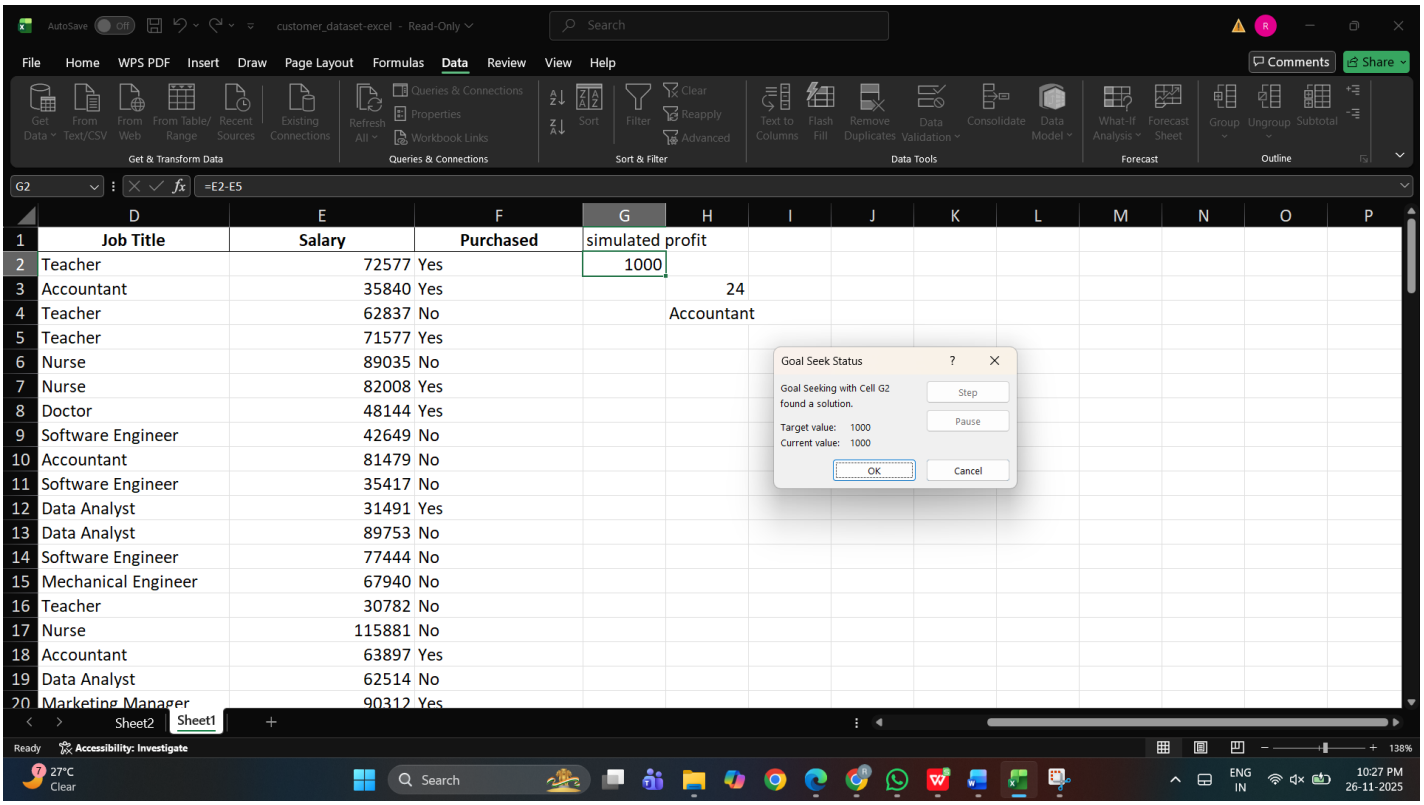
	A	B	C	D	E	F	G	H	I	J
1	Country	Age	Education	Job Title	Salary	Purchased				
2	Canada	54	Master's	Teacher	70977	Yes				
3	USA	24	High School	Accountant	35840	Yes		24		
4	Australia	22	Bachelor's	Teacher	62837	No		Accountant		
5	France	19	Master's	Teacher	71577	Yes				
6	Brazil	20	PhD	Nurse	89035	No				
7	France	64	Master's	Nurse	82008	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.

1. Identify 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.



	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Job Title	Salary	Purchased	simulated profit									
2	Teacher	70977	Yes	-600									
3	Accountant	35840	Yes		24								
4	Teacher	62837	No		Accountant								
5	Teacher	71577	Yes										
6	Nurse	89035	No										
7	Nurse	82008	Yes										
8	Doctor	48144	Yes										
9	Software Engineer	42649	No										
10	Accountant	81479	No										
11	Software Engineer	35417	No										
12	Data Analyst	31491	Yes										
13	Data Analyst	89753	No										
14	Software Engineer	77444	No										
15	Mechanical Engineer	67940	No										
16	Teacher	30782	No										
17	Nurse	115881	No										
18	Accountant	63897	Yes										
19	Data Analyst	62514	No										
20	Marketing Manager	90312	Yes										



	D	E	F	G	H	I	J	K	L	M	N	O	P
1	**Job Title**	**Salary**	**Purchased**	simulated profit									
2	Teacher	72577	Yes	1000									
3	Accountant	35840	Yes		24								
4	Teacher	62837	No		Accountant								
5	Teacher	71577	Yes										
6	Nurse	89035	No										
7	Nurse	82008	Yes										
8	Doctor	48144	Yes										
9	Software Engineer	42649	No										
10	Accountant	81479	No										
11	Software Engineer	35417	No										
12	Data Analyst	31491	Yes										
13	Data Analyst	89753	No										
14	Software Engineer	77444	No										
15	Mechanical Engineer	67940	No										
16	Teacher	30782	No										
17	Nurse	115881	No										
18	Accountant	63897	Yes										
19	Data Analyst	62514	No										
20	Marketing Manager	90312	Yes										