

# ASSIGNMENT-1

## DATASET:

	A	B	C	D	E
1	Product id	Product Name	Sales Amount	Target Amount	Region
2	101	Product A	120	150	North
3	102	Product B	150	140	South
4	103	Product C	200	200	East
5	104	Product D	90	100	West
6	105	Product E	220	210	North
7	106	Product F	130	150	South
8					

**Q1: Use the IF function to evaluate whether each product met its sales target.**

**OUTPUT: =IF(C2>=D2,"Target Met","Target Not Met")**

	A	B	C	D	E	F
1	Product id	Product Name	Sales Amount	Target Amount	Region	Sales Target Q1
2	101	Product A	120	150	North	Target Not Met
3	102	Product B	150	140	South	Target Met
4	103	Product C	200	200	East	Target Met
5	104	Product D	90	100	West	Target Not Met
6	105	Product E	220	210	North	Target Met
7	106	Product F	130	150	South	Target Not Met
8						
9						

**Q2: Use the IF function to determine if a product is eligible for a regional bonus. Products in the "North" region with sales over 200 are eligible.**

**OUTPUT: =IF(C2>200,"Eligible ","Not Eligible")**

	A	B	C	D	E	F
1	Product id	Product Name	Sales Amount	Target Amount	Region	Eligible Bonus Q2
2	101	Product A	120	150	North	Not Eligible
3	102	Product B	150	140	South	Not Eligible
4	103	Product C	200	200	East	Not Eligible
5	104	Product D	90	100	West	Not Eligible
6	105	Product E	220	210	North	Eligible
7	106	Product F	130	150	South	Not Eligible
8						
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**Q3: Use nested IF functions to assign a commission rate based on sales. Sales >= 200 get a 10% commission, sales >= 150 get a 7% commission, and others get a 5% commission.**

**OUTPUT: =IF(C2>=200,10%,IF(C2>=150,7%,5%))**

	A	B	C	D	E	F	G
1	Product id	Product Name	Sales Amount	Target Amount	Region	Commission Q3	
2	101	Product A	120	150	North	5.0%	
3	102	Product B	150	140	South	7.0%	
4	103	Product C	200	200	East	10.0%	
5	104	Product D	90	100	West	5.0%	
6	105	Product E	220	210	North	10.0%	
7	106	Product F	130	150	South	5.0%	
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**Q4: . Use the IF function to calculate a bonus amount. If sales met or exceeded the target, the bonus is 10% of the sales; otherwise, it's 5%.**

**OUTPUT: =IF(C2>=D2,"10%","5%")**

	A	B	C	D	E	F	G
1	Product id	Product Name	Sales Amount	Target Amount	Region	Bonus Amount Q4	
2	101	Product A	120	150	North	5%	
3	102	Product B	150	140	South	10%	
4	103	Product C	200	200	East	10%	
5	104	Product D	90	100	West	5%	
6	105	Product E	220	210	North	10%	
7	106	Product F	130	150	South	5%	
8							

**Q5: Use the IF function to categorize sales performance as "Excellent" (>=200), "Good" (>=150), or "Needs Improvement" (<150).**

**OUTPUT: =IF(C2>=200,"Excellent",IF(C2>=150,"Good",IF(C2<150,"Needs Improvement")))**

	A	B	C	D	E	F	G	H
1	Product id	Product Name	Sales Amount	Target Amount	Region	Sales Performance Q5		
2	101	Product A	120	150	North	Needs Improvement		
3	102	Product B	150	140	South	Good		
4	103	Product C	200	200	East	Excellent		
5	104	Product D	90	100	West	Needs Improvement		
6	105	Product E	220	210	North	Excellent		
7	106	Product F	130	150	South	Needs Improvement		
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