# LAB ASSIGNMENT-1

QUESTION 1

1. Use the IF function to evaluate whether each product met its sales target.

ANSWEER =IF(C2>=D2,"yes","no")

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| --- | --- | --- | --- | --- | --- |
| Productid | Product | Sales | Target | Region | question1 |
| 101 | Product A | 120 | 150 | north | yes |
| 102 | ProductB | 150 | 140 | south | no |
| 103 | productc | 200 | 200 | east | yes |
| 104 | productd | 90 | 100 | west | no |
| 105 | producte | 220 | 210 | north | yes |
| 106 | productf | 130 | 160 | south | no |

QESTION 2

2. 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

ANSWEER2 =IF(AND(E2="north",C2>200),"eligible","not eligible")

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| --- | --- | --- | --- | --- | --- |
| Productid | Product | Sales | Target | Region | question2 |
| 101 | Product A | 120 | 150 | north | not eligible |
| 102 | ProductB | 150 | 140 | south | not eligible |
| 103 | productc | 200 | 200 | east | not eligible |
| 104 | productd | 90 | 100 | west | not eligible |
| 105 | producte | 220 | 210 | north | eligible |
| 106 | productf | 130 | 160 | south | not eligible |

QUESTION3

* 3. 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.

ANSWEER =IF(C2>=200,"10%",IF(C2>=150,"7%","5%"))

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| --- | --- | --- | --- | --- | --- |
| Productid | Product | Sales | Target | Region | question3 |
| 101 | Product A | 120 | 150 | north | 5% |
| 102 | ProductB | 150 | 140 | south | 7% |
| 103 | productc | 200 | 200 | east | 10% |
| 104 | productd | 90 | 100 | west | 5% |
| 105 | producte | 220 | 210 | north | 10% |
|  | productf | 130 | 160 | south | 5% |

QUESTION4

4. 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%.

ANSWEER 4 =IF(C2>=D2,C2\*0.1,C2\*0.05)

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| --- | --- | --- | --- | --- | --- |
| Productid | Product | Sales | Target | Region | question4 |
| 101 | Product A | 120 | 150 | north | 6 |
| 102 | ProductB | 150 | 140 | south | 15 |
| 103 | productc | 200 | 200 | east | 20 |
| 104 | productd | 90 | 100 | west | 4.5 |
| 105 | producte | 220 | 210 | north | 22 |
|  | productf | 130 | 160 | south | 6.5 |

QUESTION5

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

ANSWEER5 =IF(C2>=200,"excellent",IF(C2>=150,"good","needs improvement"))

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Productid | Product | Sales | Target | Region | question5 | |
| 101 | Product A | 120 | 150 | north | needs improvement | |
| 102 | ProductB | 150 | 140 | south | good |  |
| 103 | productc | 200 | 200 | east | excellent |  |
| 104 | productd | 90 | 100 | west | needs improvement | |
| 105 | producte | 220 | 210 | north | excellent |  |
|  | productf | 130 | 160 | south | needs improvement | |