If Statement Lab

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ProductID** | **Product** | **Sales** | **Target** | **Region** |
| 101 | Product A | 120 | 150 | North |
| 102 | Product B | 150 | 140 | South |
| 103 | Product C | 200 | 200 | East |
| 104 | Product D | 90 | 100 | West |
| 105 | Product E | 220 | 210 | North |
| 106 | Product F | 130 | 160 | South |
|  |  |  |  |  |

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

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| --- | --- | --- | --- | --- | --- |
| **ProductID** | **Product** | **Sales** | **Target** | **Region** | **Target** |
| 101 | Product A | 120 | 150 | North | Met Target |
| 102 | Product B | 150 | 140 | South | do not Met Target |
| 103 | Product C | 200 | 200 | East | Met target |
| 104 | Product D | 90 | 100 | West | Met target |
| 105 | Product E | 220 | 210 | North | do not Met Target |
| 106 | Product F | 130 | 160 | South | Met target |

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.

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| **ProductID** | **Product** | **Sales** | **Target** | **Region** | **E;igibility** |
| 101 | Product A | 120 | 150 | North | Not Eligible |
| 102 | Product B | 150 | 140 | South | Not Eligible |
| 103 | Product C | 200 | 200 | East | Not Eligible |
| 104 | Product D | 90 | 100 | West | Not Eligible |
| 105 | Product E | 220 | 210 | North | Eligible |
| 106 | Product F | 130 | 160 | South | Not Eligible |

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.

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| **ProductID** | **Product** | **Sales** | **Target** | **Region** | **Commision** |
| 101 | Product A | 120 | 150 | North | 5% |
| 102 | Product B | 150 | 140 | South | 7% |
| 103 | Product C | 200 | 200 | East | 10% |
| 104 | Product D | 90 | 100 | West | 5% |
| 105 | Product E | 220 | 210 | North | 10% |
| 106 | Product F | 130 | 160 | South | 5% |

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%.

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| --- | --- | --- | --- | --- | --- |
| **ProductID** | **Product** | **Sales** | **Target** | **Region** | **Bonus** |
| 101 | Product A | 120 | 150 | North | 10% Bonus |
| 102 | Product B | 150 | 140 | South | 5% Bonus |
| 103 | Product C | 200 | 200 | East | 10% Bonus |
| 104 | Product D | 90 | 100 | West | 10% Bonus |
| 105 | Product E | 220 | 210 | North | 5% Bonus |
| 106 | Product F | 130 | 160 | South | 10% Bonus |

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

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| **ProductID** | **Product** | **Sales** | **Target** | **Region** | **Categories** |
| 101 | Product A | 120 | 150 | North | Needs Improvement |
| 102 | Product B | 150 | 140 | South | Good |
| 103 | Product C | 200 | 200 | East | Excellent |
| 104 | Product D | 90 | 100 | West | Needs Improvement |
| 105 | Product E | 220 | 210 | North | Excellent |
| 106 | Product F | 130 | 160 | South | Needs Improvement |