Experiment-2

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Using excel - LEFT, RIGHT, MID, IF, IFERROR, CHOOSE and Find

Device Information				Device Name	Color	ID
Smartphone, black, ID: 2001536				Smartphone	black	2001536
Laptop 1Tb, gray and blue, ID: 15021				Laptop 1Tb	gray and blue	15021
Smartwatch, black, ID: 159632				Smartwatch	black	159632
Wireless Earbuds, white and red, ID: 478214				Wireless Earbuds	white and red	478214
Digital Camera, red, ID: 132465				Digital Camera	red	132465
Smartwatch, white, ID: 41265123				Smartwatch	white	41265123
Wireless Earbuds, black, ID: 7819112				Wireless Earbuds	black	7819112

Formulas Used:

1. **=LEFT(A2,FIND(",",A2) -1)** For extracting **"Device Name".**

2. **=MID(A2,FIND(",",A2)+2,FIND(", ID",A2)-FIND(",",A2)-2)** for extracting **"Colour"** name.

3. **=TRIM(RIGHT(A2, LEN(A2) - FIND("ID: ", A2) - 3))** for extracting **"ID".**

Name	Department	Sales Q1	Sales Q2	Sales Q3	Sales Q4	Target	Total Sales	Target achieved	Performance	Average	Highest quarter
Alice	Sales	12000	15000	17000	16000	60000	44000	False	Good	15000	Q3
Bob	Marketing	8000	9500	11000	9000	50000	28500	False	Poor	9375	Q3
Charlie	IT	7000	0	8000	8500	30000	15000	False	Poor	7833.333333	Q4
David	Sales	16000	0	15000	18000	60000	31000	False	Average	16333.33333	Q4
Eve	Marketing	0	0	12000	13000	30000	12000	False	Poor	12500	Q4

1.For each employee, calculate the total sales for the year.

=SUM(D23:F23)

2.For each employee, determine if they have achieved their sales target.

=IF(I23=H23,"True","False")

3. Display the performance level based on the total sales. If total sales are:

- Greater than or equal to 50000, display "Excellent"

- Between 40000 and 49999, display "Good"

- Between 30000 and 39999, display "Average"

- Less than 30000, display "Poor"

  =IF(I23>=50000, "Excellent", IF(I23>=40000, "Good", IF(I23>=30000, "Average", "Poor")))

4. Identify the quarter with the highest sales for each employee

=CHOOSE(MATCH(MAX(D23:G23), D23:G23, 0), "Q1", "Q2", "Q3", "Q4")

5. Calculate the average sales per quarter, handling any missing or zero values.

=AVERAGEIF(D23:G23, "<>0")