Day 18 - 90 days of Analytics: Excel Count Functions

In today's first video, we looked at the **COUNT()** function and its variations in Ms Excel

The following were mentioned

-Understanding the syntax of any formula in excel is very important.

-The **COUNT()** function, counts the number of cells in a range that contains **numbers**. Example =COUNT(B4:B10), where B4:B10 is the range in which we want to count the number of cells containing numbers

-The **COUNTA()** function, counts the number of cells in a range that are **not empty**. It counts cell containing data (numbers, text, …). Example =COUNTA(B4:B10), where B4:B10 is the range in which we want to count the number of non-empty cells.

-The **COUNTBLANK()** function, counts the number of empty cells in a specified range of cells. Example =COUNTBLANK(B4:B10), where B4:B10 is the range in which we want to count the number of empty cells.

-The **COUNTIF()** function, counts the number cells within a range that meet the given condition. Example =COUNTIF(B4:B10,">10"), returns the number of cells having values greater than 10 in the range B4:B10.

Link to the YouTube Recording: https://www.youtube.com/watch?v=OvaDS4nx9Xk (Link broken)

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Day 18 - 90 days of Analytics: Excel Statistics Function

In today's second and last video, we looked at some functions used for statistics.

The following were mentioned

-We did a recapitulation on how the **COUNTIF()** function works and how to use it.

-The **SUMIF()** function, adds the cells specified by a given condition of criteria. Example =SUMIF(B3:B7,"John",C3:C7), where B3:B7 is the range of cell that contains the criteria, "John" the criteria and C3:C7 the range of cells to be summed with respect to the criteria.

-The **AVERAGEIF()** function, finds the average(arithmetic mean) for the cells specified by a given condition or criteria. Example =AVERAGEIF(B3:B7,"John",C3:C7), where B3:B7 is the range of cell that contains the criteria, "John" the criteria and C3:C7 the range of cells to be averaged with respect to the criteria.

-The **COUNTIFS()** function, counts the number of cells specified by a given set of conditions or criteria. Example =COUNTIFS(B3:B7,"John",C3:C7,"Good"), where B3:B7 is the first range of cells, "John" the first criteria, C3:C7 the second range of cell, "Good" the second criteria.

-The **SUMIFS()** function, adds the cells specified by a given set of conditions or criteria. Example =SUMIFS(D3:D7,B3:B7,"John",C3:C7,"Good"), where D3:D7 is the sum range, B3:B7 is the first range of cells, "John" the first criteria, C3:C7 the second range of cell, "Good" the second criteria.

-The **AVERAGEIFS()** function, finds the average(arithmetic mean) for the cells specified by a given set of conditions or criteria. Example =AVERAGEIFS(D3:D7,B3:B7,"John",C3:C7,"Good"), where D3:D7 is the average range, B3:B7 is the first range of cells, "John" the first criteria, C3:C7 the second range of cell, "Good" the second criteria.

-They key is to know the names of the functions and understand their syntax. **Google** can help remind us of the names of functions and their usage.

Link to the YouTube Recording: https://www.youtube.com/watch?v=KMhfhPylSFo

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