5.2 LESSON NOTES

AGGREGATORS

- Essential when you're summarising or clustering data
- Available aggregators are:
 - SUM Sums up all values to give a total
 - AVG the SUM of values divided by the COUNT of values
 - COUNT counts the number of values
 - COUNT DISTICT counts the number of different values
 - MIN returns the minimum value
 - · MAX returns the maximum value
 - MED returns the middle value in a string of numbers. Useful when you'd like to calculate an average but you have outliers in your data that skew the average value

MEDIAN

String b) Average =
$$102 (510 / 5)$$

1, 2, 3, 4, 500 Median = 3

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- **STANDARD DEVIATION** measures the amount of variation or dispersion of a set of values from the mean (or average) value
- **VARIANCE** measures the spread between numbers in a dataset. Or how far each number in the set is from the mean
- The same metric can be added to a query multiple times so that you can apply different aggregators to it
- **AUT** (Automatic) some metrics will not allow you to change the aggregator because it has already been specified in the definition or formula of that metric
- Dimensions can be added as metrics with the COUNT or COUNT DISTINCT aggregator