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Group Accumulator Operators

Changed in version 3.2: Some accumulators are now available in the \$project stage. In previous versions of MongoDB, accumulators are available only for the \$group stage.

Accumulators, when used in the \$group stage, maintain their state (e.g. totals, maximums, minimums, and related data) as documents progress through the pipeline.

When used in the \$group stage, accumulators take as input a single expression, evaluating the expression once for each input document, and maintain their stage for the group of documents that share the same group key.

When used in the \$project stage, the accumulators do not maintain their state. When used in the \$project stage, accumulators take as input either a single argument or multiple arguments.

NOTE:

For details on specific operator, including syntax and examples, click on the specific operator to go to its reference page.

Name	Description
\$sum	Returns a sum of numerical values. Ignores non-numeric values.
	Changed in version 3.2: Available in both \$group and \$project stages.
\$avg	Returns an average of numerical values. Ignores non-numeric values.
	Changed in version 3.2: Available in both \$group and \$project stages.
\$first	Returns a value from the first document for each group. Order is only defined if the documents are in a defined order.
	Available in \$group stage only.
\$last	Returns a value from the last document for each group. Order is only defined if the documents are in a defined order.
	Available in \$group stage only.

Description
Returns the highest expression value for each group.
Changed in version 3.2: Available in both \$group and \$project stages.
Returns the lowest expression value for each group.
Changed in version 3.2: Available in both \$group and \$project stages.
Returns an array of expression values for each group.
Available in \$group stage only.
Returns an array of <i>unique</i> expression values for each group. Order of the array elements is undefined.
Available in \$group stage only.
Returns the population standard deviation of the input values.
Changed in version 3.2: Available in both \$group and \$project stages.
Returns the sample standard deviation of the input values.
Changed in version 3.2: Available in both \$group and \$project stages.