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WEB 335: Discussion 5.1

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Aggregate Operations

Aggregations are used to run through many documents and return results based on the command. Aggregations can group values from many different documents together, keep track of data changes, and can run operations throughout grouped data.

The aggregate $project “Passes along the documents with the requested fields to the next stage in the pipeline. The specified fields can be existing fields from the input documents or newly computed fields” (MongoDB, n.d.). The $project stage looks like this:

{ $project: {<specification(s)>} }

The $project operation could be used to specify the inclusion, suppression, resetting of values, or addition of certain fields within a document.

The aggregate $match “Filters the documents to pass only the documents that match the specified condition(s) to the next pipeline stage” (MongoDB, n.d.). The $match stage looks like:

{ $match: { <query> } }

$Match could be used to perform an equality match, could count a number of documents, and could select specific documents.

The aggregate $sort “Sorts all input documents and returns them to the pipeline in sorted order” (MongoDB, n.d.). The sort stage looks like:

{ $sort: { <field1>: <sort order>, <field2>: <sort order> ... } }

“$sort takes a document that specifies the field(s) to sort by and the respective sort order” (MongoDB, n.d.). There are different values that sort order could have. “1” is ascending, “-1” is descending, and “textScore” will sort metadata in descending order.

$Sort could be used to sort documents by age, date, time, and text.

Resources:

*Aggregation Operations — MongoDB Manual*. (n.d.). Www.mongodb.com. https://www.mongodb.com/docs/manual/aggregation/

‌*$project (aggregation) — MongoDB Manual*. (n.d.). Www.mongodb.com. https://www.mongodb.com/docs/manual/reference/operator/aggregation/project/

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*$match (aggregation) — MongoDB Manual*. (n.d.). Www.mongodb.com. https://www.mongodb.com/docs/manual/reference/operator/aggregation/match/

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*$sort (aggregation) — MongoDB Manual*. (n.d.). Www.mongodb.com. https://www.mongodb.com/docs/manual/reference/operator/aggregation/sort/

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