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Query and Projection Operators

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NOTE:

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

Query Selectors

Comparison

For comparison of different BSON type values, see the specified BSON comparison order.

Name	Description
<code>\$eq</code>	Matches values that are equal to a specified value.
<code>\$gt</code>	Matches values that are greater than a specified value.
<code>\$gte</code>	Matches values that are greater than or equal to a specified value.
<code>\$in</code>	Matches any of the values specified in an array.
<code>\$lt</code>	Matches values that are less than a specified value.
<code>\$lte</code>	Matches values that are less than or equal to a specified value.

\$ne	Matches all values that are not equal to a specified value.
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\$nin	Matches none of the values specified in an array.
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Logical

Name	Description
\$and	Joins query clauses with a logical AND returns all documents that match the conditions of both clauses.
\$not	Inverts the effect of a query expression and returns documents that do <i>not</i> match the query expression.
\$nor	Joins query clauses with a logical NOR returns all documents that fail to match both clauses.
\$or	Joins query clauses with a logical OR returns all documents that match the conditions of either clause.

Element

Name	Description
\$exists	Matches documents that have the specified field.
\$type	Selects documents if a field is of the specified type.

Evaluation

Name	Description
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Name  [mongoDB. Documentation](#) **Description** [Search Documentation](#)

<code>\$expr</code>	Allows use of aggregation expressions within the query language.
<code>\$jsonSchema</code>	Validate documents against the given JSON Schema.
<code>\$mod</code>	Performs a modulo operation on the value of a field and selects documents with a specified result.
<code>\$regex</code>	Selects documents where values match a specified regular expression.
<code>\$text</code>	Performs text search.
<code>\$where</code>	Matches documents that satisfy a JavaScript expression.

Geospatial

Name	Description
<code>\$geoIntersects</code>	Selects geometries that intersect with a GeoJSON geometry. The 2dsphere index supports <code>\$geoIntersects</code> .
<code>\$geoWithin</code>	Selects geometries within a bounding GeoJSON geometry. The 2dsphere and 2d indexes support <code>\$geoWithin</code> .
<code>\$near</code>	Returns geospatial objects in proximity to a point. Requires a geospatial index. The 2dsphere and 2d indexes support <code>\$near</code> .
<code>\$nearSphere</code>	Returns geospatial objects in proximity to a point on a sphere. Requires a geospatial index. The 2dsphere and 2d indexes support <code>\$nearSphere</code> .

Array

Name	Description
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Name	Documentation	Description	Search Documentation
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\$all	Matches arrays that contain all elements specified in the query.
\$elemMatch	Selects documents if element in the array field matches all the specified \$elemMatch conditions.
\$size	Selects documents if the array field is a specified size.

Bitwise

Name	Description
\$bitsAllClear	Matches numeric or binary values in which a set of bit positions <i>all</i> have a value of 0.
\$bitsAllSet	Matches numeric or binary values in which a set of bit positions <i>all</i> have a value of 1.
\$bitsAnyClear	Matches numeric or binary values in which <i>any</i> bit from a set of bit positions has a value of 0.
\$bitsAnySet	Matches numeric or binary values in which <i>any</i> bit from a set of bit positions has a value of 1.

Comments

Name	Description
\$comment	Adds a comment to a query predicate.

Projection Operators

Name	Description
\$	Projects the first element in an array that matches the query condition.

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Name	Description
\$elemMatch	Projects the first element in an array that matches the specified \$elemMatch condition.
\$meta	Projects the document's score assigned during \$text operation.
\$slice	Limits the number of elements projected from an array. Supports skip and limit slices.

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