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Query and Projection Operators

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NOTE

For details on a specific operator, including syntax and examples, click on the link to the operator's reference page.

Compatibility

You can use query and projection operators for deployments hosted in the following environments:

- MongoDB Atlas: The fully managed service for MongoDB deployments in the cloud
- MongoDB Enterprise: The subscription-based, self-managed version of MongoDB
- MongoDB Community: The source-available, free-to-use, and self-managed version of MongoDB

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TIP

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You can use operators when querying your data with mongosh methods, the Atlas UI, or Compass.

Query Selectors

Comparison

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

Name	Description
\$eq	Matches values that are equal to a specified value.
\$gt	Matches values that are greater than a specified value.
\$gte	Matches values that are greater than or equal to a specified value.
\$in	Matches any of the values specified in an array.
\$lt	Matches values that are less than a specified value.
\$lte	Matches values that are less than or equal to a specified value.
\$ne	Matches all values that are not equal to a specified value.
\$nin	Matches none of the values specified in an array.

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
\$expr	Allows use of aggregation expressions within the query language.

Name	Description
\$jsonSchema	Validate documents against the given JSON Schema.
\$mod	Performs a modulo operation on the value of a field and selects documents with a specified result.
\$regex	Selects documents where values match a specified regular expression.
\$text	Performs text search.
\$where	Matches documents that satisfy a JavaScript expression.

Geospatial

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

Array

Name	Description
\$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 any 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.

Projection Operators

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

Miscellaneous Operators

Name	Description
\$comment	Adds a comment to a query predicate.
\$rand	Generates a random float between 0 and 1.

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