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MongoDB Manual

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
Share Feedback 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,

Share Feedbackree-to-use,
 and self managed
 version of
 MongoDB



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

Query Selectors

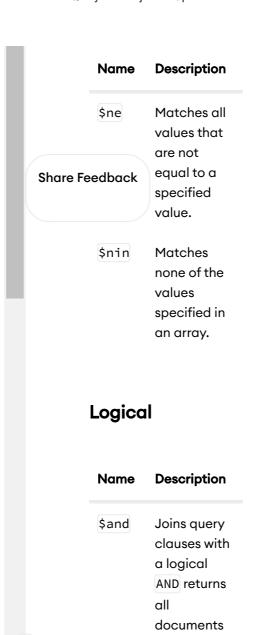
Comparison

For comparison of different BSON type values, see the

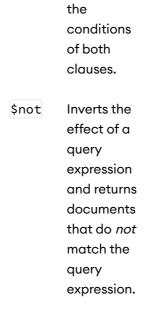
specified BSON comparison order.

	Name Share Feedback	Description		
	\$eq	Matches		
		values that		
		are equal to		
		a specified		
		value.		
	\$gt	Matches		
	185	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.		
MongoDB MongoDB			Q	
7 8 -	\$lt	Matches		
DanaManu		values that		• •
, Docs Menu		are less than		•
► Change Streams		a specified	On this page	
P Onlange Streams		value.	on and page	
► Time Series	\$lte	Matches	Compatibility	
► Transactions		values that are less than	Query Selectors	
► Administration		or equal to a specified	Projection Operators	
▶ Storage		value.	Miscellaneous Operator	rs
► Frequently Asked Questions				
- Poforonoo				

▼ reference



MongoDB Server Parameters



that match

	Name	Description
	\$nor	Joins query clauses with a logical
Share Feedback		NOR returns
		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
	that have the
	specified
	field.
\$type	Selects
	documents
	if a field is
	of the
	specified
	type.
4	•

Evaluation

	Name	Descri
Share Fee	şexpr edback	Allows of
		aggreç n
		expres
		within t
		query
		langua
	\$jsonSchema	Validat
		docum
		agains
		given J
		Schem
	\$mod	Perforr
		modul
		operat
		on the
		of a fie
		and se
		docum
		with a
		specifi result.
		resurt.
	\$regex	Selects
		docum
		where
		values
		match
		specifi
		regulaı
		expres
	\$text	Perforr
		text se

	Name	Descrij
	\$where	Match
		docum
Share Feedb		that sa
	Feedback	а
		JavaSc
		expres

Geospatial

Name	De
\$geoIntersects	Sel
	geo
	inte
	Ge
	ge
	2ds
	sur
	\$g
	•
\$geoWithin	Sel
	geo
	a b
	Ge
	geo
	2ds
	ind
	\$g
\$near	Ret
	geo
	obj
	prc
	poi
	geo
	Th€
	2d
	suŗ

	Name	De
	\$nearSphere	Ret
		geo
		obj
Share Feedback		prc
		poi
		Rec
		geo
		Th€
		2d
		suŗ
		\$n

Array

Name	Descript
\$all	Matche
	arrays tl
	contain
	element
	specifie
	the quer
\$elemMatch	Selects
	docume
	element
	the arra
	field
	matche
	the spec
	\$elemM
	conditio

	Name	Descrip ¹
	\$size	Selects
		docume
		the arra
Share Feed	edback	field is a
		specifie
		size.

Bitwise

Name	Desc
\$bitsAllClear	Mate
	num
	bina
	valu
	whic
	of bi
	posi
	have
	valu
\$bitsAllSet	Mate
	num
	bina
	valu
	whic
	of bi
	posi
	have
	valu
4	•

	Name	Desc
	\$bitsAnyClear	Mate
		num
		bina
Share Fe	edback	valu
		whic
		bit fı
		set c
		posi
		has
		of 0
	\$bitsAnySet	Mate
		num
		bina
		valu
		whic
		bit fı
		set c
		posi
		has
		of 1

Projection Operators

Name	Descript
\$	Projects first eler
	in an arr
	that
	matche
	query
	conditio

	Name	Descript
	\$elemMatch	Projects first eler
Share Fe	eedback	in an arr that matches specifies \$elemMaconditio
	\$meta	Projects docume score assigned during \$text operatic
	\$slice	Limits th number element projecte from an array. Support skip and limit slic

Miscellaneous Operators

Name	Descriptio
\$comment	Adds a comment t a query predicate.

	Name	Descriptio
	\$rand	Generates
		a random float
Share Fo	eedback	between 0 and 1.

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