## **■** MongoDB Operators Cheat Sheet

Category	Operator	Example	Meaning
Comparison	\$eq	{ price: { \$eq: 1000 } }	Equal to 1000
	\$ne	{ price: { \$ne: 1000 } }	Not equal to 1000
	\$gt	{ price: { \$gt: 1000 } }	Greater than 1000
	\$gte	{ price: { \$gte: 1000 } }	Greater or equal to 1000
	\$It	{ price: { \$It: 1000 } }	Less than 1000
	\$Ite	{ price: { \$Ite: 1000 } }	Less or equal to 1000
	\$in	{ name: { \$in: ["Java","Python"] } }	In list
	\$nin	{ name: { \$nin: ["Java","Python"] } }	Not in list
Logical	\$and	{ \$and: [ {price: {\$gt:1000}}, {price: {\$lt:5000}} ] }	Both must match
	\$or	{ \$or: [ {name:"Java"}, {name:"Python"} ] }	Either condition
	\$not	{ price: { \$not: { \$gt:2000 } } }	Negation
	\$nor	{ \$nor: [ {name:"Java"}, {price:2000} ] }	None match
Element	\$exists	{ discount: { \$exists: true } }	Field exists
	\$type	{ price: { \$type: "int" } }	Field is int
Evaluation	\$regex	{ name: { \$regex: /^J/ } }	Starts with J
	\$expr	{ \$expr: { \$gt: ["\$projects", "\$assignments"] } }	Compare fields
Array	\$all	{ tags: { \$all: ["node","backend"] } }	Contains all values
	\$size	{ tags: { \$size: 3 } }	Array has 3 elements
	\$elemMatch	{ scores: { \$elemMatch: { \$gt:80, \$lt:90 } } }	Array element matches
Update	\$set	{ \$set: { price:2000 } }	Set new value
	\$unset	{ \$unset: { discount:"" } }	Remove field
	\$inc	{ \$inc: { price:500 } }	Increment field
	\$mul	{ \$mul: { price:2 } }	Multiply field
	\$rename	{ \$rename: { name:"courseName" } }	Rename field
	\$push	{ \$push: { tags:"newTag" } }	Add to array
	\$addToSet	{ \$addToSet: { tags:"uniqueTag" } }	Add if not exists
	\$pull	{ \$pull: { tags:"oldTag" } }	Remove item
	\$pop	{ \$pop: { tags:1 } }	Remove last item
	\$currentDate	{ \$currentDate: { lastUpdated:true } }	Set current date
Aggregation	\$sum	{ \$group: { _id:"\$instructor", total: { \$sum:"\$price	'} <b>\$ı)</b> m values
	\$avg	{ \$group: { _id:"\$instructor", avg: { \$avg:"\$price"}	}Average values

Category	Operator	Example	Meaning
	\$min/\$max	{ \$group: { _id:"\$course", min: { \$min:"\$price"} } }	Min/Max value
	\$count	{ \$count:"total" }	Count documents
	\$sort	{ \$sort: { price:-1 } }	Sort documents