

## MongoDB Cheat Sheet "issr Master" Cheat Sheet by Hany Samir (hanysamir) via cheatography.com/198431/cs/41986/

Basinc MongoDB commands		
Commmand	Description	Example
mongod	start the mongo service	mongoddbpath /home/mongo logpath /home/mongo/mongod.log bind_ip 0.0.0.0
mongosh	command run mongodb shell	mongosh
show dbs	list databases	show dbs
use db_name	Switch to database db	use company
db	show current database name	db
show collections	List current database collections	show collections

Insert		
syntax	Description	Example
insertOne (data, options)	insert one document	db.people.insertOne({ "ssn":1, "name":"Ali","age":20})
insertMan- y([{docum- ent1},{do- cument2}])	insert many documents, square brackets are mandatory	"db.sales.insertMany([ { ""ite-m"": ""abc"", ""price"": 10}, { ""-item"": ""xyz"", ""price"": 5 } ])"

Delete		
syntax	Description	Example
deleteOne- (filter, options)	delete the first matching document from collection	<pre>db.project.deleteOne( { "pnumber": 1 } )</pre>
deleteMan- y(filter, options)	delete all matching documents from the project collection	db.project.deleteMany( { "plocation": "Stafford" } )

Update		
syntax	Description	Example
<pre>updateOne(- update one db.sales.updateOne({"item":"abc"}, { filter, data, document options)</pre>		db.sales.updateOne({"item":"abc"}, { "- \$set" : {"price": 22} } )
$\label{eq:continuous} \begin{array}{lll} \mbox{updateMan-} & \mbox{update db.sales.updateMany} \ (\ \{\ ""\_id"":\{""\$-y(filter, data, matching gte"":14, ""\$lte"":16\} \ \}, \ \{\ \$unset: \{\ ""-options) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		
\$set to update the field value \$unset will remove the field		

Index		
syntax	Description	Example
create- Index( {keys}, {options})	Creates indexes on collections.	<pre>db.project.createIndex( { "pnumber": 1,     "Pname": -1 } , { "name": "pno_name" ,     "unique": true} )</pre>
dropIndex- (index)	Delete index	db.project.dropIndex("pno_name")
getInd- exes()	List indexes on collection.	db.project.getIndexes()

if index name was not specified withing options, the name will be generated automatically.

1 = ascending order

-1 = descending order

syntax     Description     Example       findOne(fi-     find first     db.employee.findOne({"dno": 8}, lter, matching options)       options)     document       find(filter, find all options)     db.employee.find({"dno": 8},{"_i-descriptions})       matching d":0,"fname":1,"lname":1})	Find		
Iter, matching ("_id":0,"fname":1,"Iname":1}) options) document  find(filter, find all db.employee.find({"dno": 8},{"_i-	syntax	Description	Example
	Iter,	matching	
documents	,	matching	, , ,, ,,, =



By **Hany Samir** (hanysamir) cheatography.com/hanysamir/

Published 8th January, 2024. Last updated 8th January, 2024. Page 1 of 3. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours!
https://apollopad.com



## MongoDB Cheat Sheet "issr Master" Cheat Sheet by Hany Samir (hanysamir) via cheatography.com/198431/cs/41986/

Aggregation Pipeline (cont)

Performs a left outer join to a collection in

the same database to filter in documents

db.ord-

ers.aggre-

Query methods		
syntax	Description	Example
sort({field name:1 or -1})	find first matching document	db.sales.find().so- rt({"price": 1})
limit(n)	Limits the number of documents	db.sales.find().li- mit(3)
skip(n) Skips over the specified db.sales.find().sk-number of documents ip(3)		
1 = ascending order -1 = descending order		

Aggregation Pipeline		
syntax	Description	Example
\$group	The \$group stage separates documents into groups according to a "group key". The output is one document for each unique group key.	db.employee.aggreg- ate([ { "\$group" : { "- _id" : null, "averag- eSalary": { "\$avg": "- \$salary" } } }])
Accumu	lator Operator	
	\$avg	Returns an average of numerical values.
	\$max	Returns the highest expression value for each group.
	\$min	Returns the lowest expression value for each group.
	\$sum	Returns a sum of numerical values. Ignores non-numeric values.

	from the "joined" collection for processing. The \$lookup stage adds a new array field to each input document. The new array field contains the matching documents from the "joined" collection. The \$lookup stage passes these reshaped documents to the next stage.	gate([{     \$lookup: {     from: "inv-     entory",     localField: "-     item", foreig-     nField: "-     sku", as: "-     inventory-     _docs" }}])
The \$look	sup takes a document with these fields:	
	from	Specifies the collection in the same database to perform the join with.
	localField	Specifies the field from the documents input to the \$lookup stage.
	foreignField	Specifies the field from the documents in the from collection.
	as	Specifies the name of the new array field to add to the input documents.



By **Hany Samir** (hanysamir) cheatography.com/hanysamir/

Published 8th January, 2024. Last updated 8th January, 2024. Page 2 of 3. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours!
https://apollopad.com



## MongoDB Cheat Sheet "issr Master" Cheat Sheet by Hany Samir (hanysamir) via cheatography.com/198431/cs/41986/

Logical ope	erators
\$and:[- array]	AND operation between all array of expressions
\$or:[a- rray]	OR operation between all array of expressions
\$nor:[- array]	All array expressions must fail.
\$not:Expr	Performs a logical NOT operation on the specified <pre><pre>erator-expression&gt;</pre></pre>

Comparison operators	
syntax	Description
\$eq	Matches values that are equal to a specified value.
\$ne	Matches all values that are not 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.
\$It	Matches values that are less than a specified value.
\$Ite	Matches values that are less than or equal to a specified value.
\$in	Matches any of the values specified in an array
\$nin	Matches none of the values specified in an array.



By **Hany Samir** (hanysamir) cheatography.com/hanysamir/

Published 8th January, 2024. Last updated 8th January, 2024. Page 3 of 3. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish
Yours!
https://apollopad.com