

Home How To AskOTG Tutorials Certifications

Contact Us

MongoDB Cheat Sheet - Essential MongoDB Shell Commands

Posted on 05th December 2016

 ${
m H}$ ere are the most commonly used Mongo Shell commands with example usage.

Basic Commands		
To do this	Run this command	Example
Connect to local host on default port 27017	mongo	mongo
Connect to remote host on specified port	mongohost <hostname address="" ip="" or="">port <port no=""></port></hostname>	mongohost 10.121.65.23 port 23020
Connect to a database	mongo <host>l<databas e></databas </host>	mongo 10.121.65.58/my db
Show current database	db	db
Select or switch database ^[1]	use <i><database< i=""> <i>name></i></database<></i>	use mydb

Execute a JavaScript file	load(<i><filename></filename></i>)	load (myscript.js)
Display help	help	help
Display help on DB methods	db.help()	db.help()
Display help on Collection	db.mycol.help()	db.mycol.help()
Sh	ow Comman	ıds
Show all databases	show dbs	show dbs
Show all collections in current database	show collections	show collections
Show all users on current database	show users	show users
Show all roles on current database	show roles	show roles
CRUD Operations		
Insert a new document in a collection [2]	db.collection.ins ert(<i><document></document></i>)	db.books.insert({"isbn": 9780060859749, "title": "After Alice: A Novel", "author": "Gregory Maguire", "category":

		"Fiction", "year":2016})
Insert multiple documents into a collection	db.collection.ins ertMany([db.books.insert Many([{"isbn": 9780198321668, "title": "Romeo and Juliet", "author": "William Shakespeare", "category": "Tragedy", "year": 2008}, {"isbn": 9781505297409, "title": "Treasure Island", "author": "Robert Louis Stevenson", "category": "Fiction", "year":2014}]) -or- db.books.insert([{ "isbn":"9781853 260001", "title": "Pride and Prejudice", "author": "Jane Austen", "category": "Fiction"}, "isbn":

		"9780743273565 ", "title": "The Great Gatsby", "author": "F. Scott Fitzgerald"}
Show all documents in the collection	db.collection.fin d()	db.books.find()
Filter documents by field value condition	db.collection.fin d(<i><query></query></i>)	db.books.find({"t itle":"Treasure Island"})
Show only some fields of matching documents	db.collection.fin d(<i><query>,</query></i> <i><projection></projection></i>)	db.books.find({"t itle":"Treasure Island"}, {title:true, category:true, _id:false})
Show the first document that matches the query condition	db.collection.fin dOne(<i><query>,</query></i> <i><projection></projection></i>)	db.books.findOn e({}, {_id:false})
Update specific fields of a single document that match the query condition	db.collection.up date(<i><query>,</query></i> <i><update></update></i>)	db.books.update ({title: "Treasure Island"}, {\$set: {category :"Adventure Fiction"}})
Remove certain fields of a single document the query condition	db.collection.up date(<i><query>,</query></i> <i><update></update></i>)	db.books.update ({title:"Treasure Island"}, {\$unset : {category:""}})

Remove certain fields of all documents that match the query condition	db.collection.up date(<i><query></query></i> , <i><update></update></i> , {multi:true})	db.books.update ({category: "Fiction"}, {\$unset: {category:""}}, {multi:true})
Delete a single document that match the query condition	db.collection.re move(<i><query></query></i> , {justOne:true})	db.books.remov e({title :"Treasure Island"}, {justOne:true})
Delete all documents matching a query condition	db.collection.re move(<i><query></query></i>)	db.books.remov e({"category" :"Fiction"})
Delete all documents in a collection	db.collection.re move({})	db.books.remov e({})
	Index	
Create an index	db.collection.cre ateIndex({indexField:type}) Type 1 means ascending; -1 means descending	db.books.createl ndex({title:1})
Create a unique index	db.collection.cre atelndex({indexField:type} , {unique:true})	db.books.createl ndex({isbn:1}, {unique:true})

Create a index on multiple fields (compound index)	db.collection.cre ateIndex({indexF ield1:type1, indexField2:type 2,})	db.books.createl ndex({title:1, author:-1})	
Show all indexes in a collection	db.collection.get Indexes()	db.books.getInd exes()	
Drop an index	db.collection.dro plndex({indexField:type})	db.books.dropIn dex({author:-1})	
Show index statistics	db.collection.sta ts()	db.books.stats()	
C	Cursor Methods		
Show number of documents in the collection	cursor.count()	db.books.find().c ount()	
Limit the number of documents to return	cursor.limit(<i><n></n></i>)	db.books.find().li mit(2)	
Return the result set after skipping the first n number of documents	cursor.skip(<i><n></n></i>)	db.books.find().s kip(2)	
Sort the documents in a result set in ascending or descending order of field	cursor.sort(<{field : value}>) value = 1 for ascending, -1 for descending	db.books.find().s ort({title : 1})	

values		
Display formatted (more readable) result	cursor.pretty()	db.books.find({}) .pretty()
Com	oarison Oper	ators
equals to	{ <field>: { \$eq: <value> }}</value></field>	db.books.find({y ear: {\$eq: 2016}})
less than	{ <field>: { \$lt: <value> }}</value></field>	db.books.find({y ear: {\$lt: 2010}})
less than or equal to	{ <field>: { \$lte: <value> }}</value></field>	db.books.find({ year: {\$lte: 2008}})
greater than	{ <field>: { \$gt: <value> }}</value></field>	db.books.find({y ear: {\$gt: 2014}})
greater than or equal to	{ <field>: { \$gte: <value> }}</value></field>	db.books.find({y ear: {\$gte: 2008}})
not equal to	{ <field>: { \$ne: <value> }}</value></field>	db.books.find({y ear: {\$ne: 2008}})
value in	{ <field>: { \$in: [<value1>, <value2>, }}</value2></value1></field>	db.books.find({y ear: {\$in: [2008, 2016]}})
value not in	{ <field>: { \$nin: [<value1>, <value2>, }}</value2></value1></field>	db.books.find({y ear: {\$nin: [2008, 2016]}})
Logical Operators		

OR	{ \$or: [<expression1>, <expression2>,]}</expression2></expression1>	db.books.find({ \$or: [{year: {\$lte: 2008}}, {year: {\$eq: 2016}}]})	
AND	{ \$and: [<expression1>, <expression2>,]}</expression2></expression1>	db.books.find({	
NOT	{ \$not: { <expression>}}</expression>	db.books.find({\$not: {year: {\$eq: 2016} }})	
NOR	{ \$nor: [<expression1>, <expression2>,]}</expression2></expression1>	db.books.find({ \$nor: [{year: {\$lte: 2008}}, {year: {\$eq: 2016}}]})	
Ele	Element Operators		
Match documents that contains that specified field	{ <field>: {\$exists:true}}</field>	db.books.find({category: {\$exists: true }})	
Match documents whose field value is of the specified BSON data type	{ <field>: {\$type:value}}</field>	db.books.find({category: {\$type: 2 }})	

[1] Databases are created on the fly and will actually be created when you insert something into it.

[2] Collections are created on the fly when you insert first

document into it.











Rate it

Related Articles

Post a comment

Your Comment		
Name	Email	

Post Comment

Comments

@89rtE | October 2, 2017 3:30 PM |

Lots of HW, GZ. THX.

Reply

Shy Tamir | December 29, 2016 10:46 AM |

You might want to add this little gem for validation of data files. I use it on our restored daily backup to verify it's usable: db.getSiblingDB("admin").runCommand("listDatabases").datab ases.forEach(function(d)

{db.getSiblingDB(d.name).getCollectionNames().forEach(function(c)

{assert(db.getSiblingDB(d.name).getCollection(c).validate().valid=true)})})

Reply

Copyright 2019 Open Tech Guides. All rights reserved