MongoDb Queries

>\_MONGOSH

1. **Create new/Update the existing Database**

**use mongodb\_new**

switched to db mongodb\_new

1. **show the existing Database**

**show databases**

admin 40.00 KiB

config 60.00 KiB

local 72.00 KiB

1. **Create the collection in Database**

**db.createCollection("employee")**

{ ok: 1 }

1. **show the collections in Database**

**show collections**

employee

1. **Drop/delete the collection in Database**

**db.employee.drop()**

true

1. **Drop/delete the collection in Database**

db.dropDatabase()

{ ok: 1, dropped: 'mongodb\_new' }

mongodb\_new

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1. **Create new Database and insert one Values**

**use datamites**

switched to db datamites

**db.createCollection("employee")**

{ ok: 1 }

**show databases**

admin 40.00 KiB

config 108.00 KiB

datamites 8.00 KiB

local 72.00 KiB

**show collections**

employee

**db.employee.insertOne({name:"akshatha",role:"Trainer"})**

{

acknowledged: true,

insertedId: ObjectId("64d8ec8fb5bd54150e381f78")

}

**db.employee.insertOne({name:"Rohan",role:"developer"})**

{

acknowledged: true,

insertedId: ObjectId("64d8eca7b5bd54150e381f79")

}

**db.employee.insertOne({name:"Rohan",role:"developer",age:23})**

{

acknowledged: true,

insertedId: ObjectId("64d8ecb8b5bd54150e381f7a")

}

1. **Insert many values Database**

**db.employee.insertMany([{name:"Rohan",role:"developer",age:23},{name:"Rakshit",role:"HR",age:7}])**

{

acknowledged: true,

insertedIds: {

'0': ObjectId("64d8ee4ab5bd54150e381f7b"),

'1': ObjectId("64d8ee4ab5bd54150e381f7c")

}

}

**db.employee.insertMany([{name:"Rohan",role:"developer",age:23},{name:"Rakshit",role:"HR"},{name:"sahana",age:34,role:"manager",phone:990055066}])**

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1. **Find all the datapoints in the collections**

**db.employee.find()**

{

\_id: ObjectId("64d8ec8fb5bd54150e381f78"),

name: 'akshatha',

role: 'Trainer'

}

{

\_id: ObjectId("64d8eca7b5bd54150e381f79"),

name: 'Rohan',

role: 'developer'

}

{

\_id: ObjectId("64d8ecb8b5bd54150e381f7a"),

name: 'Rohan',

role: 'developer',

age: 23

}

{

\_id: ObjectId("64d8ee4ab5bd54150e381f7b"),

name: 'Rohan',

role: 'developer',

age: 23

}

{

\_id: ObjectId("64d8ee4ab5bd54150e381f7c"),

name: 'Rakshit',

role: 'HR',

age: 7

}

{

\_id: ObjectId("64d8ee5cb5bd54150e381f7d"),

name: 'Rohan',

role: 'developer',

age: 23

}

{

\_id: ObjectId("64d8ee5cb5bd54150e381f7e"),

name: 'Rakshit',

role: 'HR'

}

{

\_id: ObjectId("64d8ee5cb5bd54150e381f7f"),

name: 'sahana',

age: 34,

role: 'manager',

phone: 990055066

}

1. **Find the specific datapoints in the collections**

db.employee.find({name:'sahana'})

{

\_id: ObjectId("64d8ee5cb5bd54150e381f7f"),

name: 'sahana',

age: 34,

role: 'manager',

phone: 990055066

}

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1. **Find the specific values by using comparison operator**

**db.employee.find({age:{$gte:25}})**

{

\_id: ObjectId("64d8ee5cb5bd54150e381f7f"),

name: 'sahana',

age: 34,

role: 'manager',

phone: 990055066

}

**db.employee.find({age:{$lte:10}})**

{

\_id: ObjectId("64d8ee4ab5bd54150e381f7c"),

name: 'Rakshit',

role: 'HR',

age: 7

}

**db.employee.find({age:{$eq:7}})**

{

\_id: ObjectId("64d8ee4ab5bd54150e381f7c"),

name: 'Rakshit',

role: 'HR',

age: 7

}

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1. **Arrange the data in ascending order/Descending order**

**db.employee.find().sort({age:1})**

**db.employee.find().sort({age:-1})**

1. **Update one value**

**db.employee.updateOne({name:"Rakshit"},{$set:{role:"Team Lead"}})**

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

**db.employee.find({name:"Rakshit"})**

{

\_id: ObjectId("64d8ee4ab5bd54150e381f7c"),

name: 'Rakshit',

role: 'Team Lead',

age: 7

}

{

\_id: ObjectId("64d8ee5cb5bd54150e381f7e"),

name: 'Rakshit',

role: 'HR'

}

1. **Update many value**

**db.employee.updateMany({name:"Rohan"},{$set:{role:"Data Analysist"}}**

{

acknowledged: true,

insertedId: null,

matchedCount: 4,

modifiedCount: 4,

upsertedCount: 0

}

{

\_id: ObjectId("64d8eca7b5bd54150e381f79"),

name: 'Rohan',

role: 'Data Analysist'

}

{

\_id: ObjectId("64d8ecb8b5bd54150e381f7a"),

name: 'Rohan',

role: 'Data Analysist',

age: 23

}

{

\_id: ObjectId("64d8ee4ab5bd54150e381f7b"),

name: 'Rohan',

role: 'Data Analysist',

age: 23

}

{

\_id: ObjectId("64d8ee5cb5bd54150e381f7d"),

name: 'Rohan',

role: 'Data Analysist',

age: 23

}

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Aggregate

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1. **Aggregate Values(sum,avg,count)**

**db.employeedetails.insertMany([{name:"shubham",role:"manger",age:20,salary:20000},{name:"uma",role:"manger",age:18,salary:30000},{name:"sanket",role:"HR",Age:23,salary:40000}])**

{

acknowledged: true,

insertedIds: {

**'0'**: ObjectId(**"64dc45cdc24dcb5d1e164517"**),

**'1'**: ObjectId(**"64dc45cdc24dcb5d1e164518"**),

**'2'**: ObjectId(**"64dc45cdc24dcb5d1e164519"**)

}

}

**db.employeedetails.find()**

{

\_id: ObjectId(**"64dc45cdc24dcb5d1e164517"**),

name: **'shubham'**,

role: **'manger'**,

age: 20,

salary: 20000

}

{

\_id: ObjectId(**"64dc45cdc24dcb5d1e164518"**),

name: **'uma'**,

role: **'manger'**,

age: 18,

salary: 30000

}

{

\_id: ObjectId(**"64dc45cdc24dcb5d1e164519"**),

name: **'sanket'**,

role: **'HR'**,

Age: 23,

salary: 40000

}

**db.employeedetails.aggregate([{$match:{role:"manger"}},{$group:{\_id:"$name",salary:{$sum:"$salary"}}}])**

{

\_id: **'uma'**,

salary: 30000

}

{

\_id: **'shubham'**,

salary: 20000

}

**db.employeedetails.aggregate([{$match:{role:"manger"}},{$group:{\_id:"$id",salary:{$sum:"$salary"}}}])**

{

\_id: null,

salary: 50000

}

**db.employeedetails.aggregate([{$match:{role:"manger"}},{$group:{\_id:"$id",salary:{$avg:"$salary"}}}])**

{

\_id: null,

salary: 25000

}

**db.employeedetails.aggregate([{$match:{role:"manger"}},{$count:"total number of employee"}])**

{

'total number of employee': 2

}

1. **Delete one value**

**db.employee.deleteOne({name:"sanket"})**

{

acknowledged: true,

deletedCount:1

}

1. **Delete many value**

**db.employeedeatils.deleteMany({role:"manger"})**

{

acknowledged: true,

deletedCount: 2

}