

MongoDb Queries

```
>_MONGOSH
```

I. Create new/Update the existing Database

```
use mongodb_new  
switched to db mongodb_new
```

II. show the existing Database

```
show databases  
  
admin 40.00 KiB  
config 60.00 KiB  
local 72.00 KiB
```

III. Create the collection in Database

```
db.createCollection("employee")  
  
{ ok: 1 }
```

IV. show the collections in Database

```
show collections  
  
employee
```

V. Drop/delete the collection in Database

```
db.employee.drop()  
  
true
```

VI. Drop/delete the collection in Database

```
db.dropDatabase()

{ ok: 1, dropped: 'mongodb_new' }

mongodb_new
```

```
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
```

VII. 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")
}

```

VIII. 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}])

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

```

IX. 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
}
```

X. Find the specific datapoints in the collections

```
db.employee.find({name:'sahana'})
{
  _id: ObjectId("64d8ee5cb5bd54150e381f7f"),
  name: 'sahana',
  age: 34,
  role: 'manager',
  phone: 990055066
}
```

@@

XI. 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
}
```

XII. Arrange the data in ascending order/Descending order

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

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

XIII. 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'
}
```

XIV. Update many value

```
db.employee.updateMany({name:"Rohan"},{$set:{role:"Data Analyst"}})
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
  modifiedCount: 4,
  upsertedCount: 0
}
```

```
{
  _id: ObjectId("64d8eca7b5bd54150e381f79"),
  name: 'Rohan',
  role: 'Data Analyst'
}
```

```
{
  _id: ObjectId("64d8ecb8b5bd54150e381f7a"),
  name: 'Rohan',
  role: 'Data Analyst',
  age: 23
}
```

```
{
  _id: ObjectId("64d8ee4ab5bd54150e381f7b"),
  name: 'Rohan',
  role: 'Data Analyst',
  age: 23
}
```

```
{
```



```
_id: ObjectId("64d8ee5cb5bd54150e381f7d"),
name: 'Rohan',
role: 'Data Analyst',
age: 23
}
```

@@

Aggregate

@@
@@

XV. 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.employeeetails.aggregate([{$match:{role:"manger"}},{$group:{_id:"$name",salary:{$sum:"$salary"}}}])
  {
    _id: 'uma',
    salary: 30000
  }
  {
    _id: 'shubham',
    salary: 20000
  }
  db.employeeetails.aggregate([{$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
```

```
}
```

XVI. Delete one value

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

```
{
```

```
  acknowledged: true,
```

```
  deletedCount:1
```

```
}
```

XVII. Delete many value

```
db.employeedetails.deleteMany({role:"manger"})
```

```
{
```

```
  acknowledged: true,
```

```
  deletedCount: 2
```

```
}
```

