***{“Mongo-DB – Task” : “Sumit Mote”}***

1. **mongo -version**

**OUTPUT:**

C:\Users\Sumit>mongo -version

MongoDB shell version v5.0.1

Build Info: {

"version": "5.0.1",

"gitVersion": "318fd9cabc59dc9651f3189b622af6e06ab6cd33",

"modules": [],

"allocator": "tcmalloc",

"environment": {

"distmod": "windows",

"distarch": "x86\_64",

"target\_arch": "x86\_64"

}

}

1. **mongo**

**OUTPUT:**

**C:\Users\Sumit>mongo**

**MongoDB shell version v5.0.1**

**connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb**

**Implicit session: session { "id" : UUID("8746df89-4296-425c-9677-ede039b085c7") }**

**MongoDB server version: 5.0.1**

**================**

**>**

1. **show dbs**

**OUTPUT:**

**> show dbs**

**admin 0.000GB**

**config 0.000GB**

**local 0.000GB**

**4.use mydb**

**OUTPUT:**

**> use mydb**

**switched to db mydb**

**5.db**

**OUTPUT:**

**> db**

**Mydb**

**6. db.createCollection("aimcollect")**

**OUTPUT:**

**> db.createCollection(“aimcollect”)**

**{ “ok” : 1 }**

**> show collections**

**aimcollect**

**7.** **db.student.insert({id : "1",name:"sumit",marks:"50",city:"Pune"})**

**OUTPUT:**

**WriteResult({ "nInserted" : 1 })**

**8.** **db.student.insertOne({id : "1",name:"amit",marks:"60",city:"Solapur"})**

**OUTPUT:**

**{**

**"acknowledged" : true,**

**"insertedId" : ObjectId("61026dd379fccf670e16985f")**

**}**

**9.** **db.student.find()**

**{ "\_id" : ObjectId("61026d4979fccf670e16985e"), "id" : "1", "name" : "sumit", "marks" : "50", "city" : "Pune" }**

**{ "\_id" : ObjectId("61026dd379fccf670e16985f"), "id" : "1", "name" : "amit", "marks" : "60", "city" : "Solapur" }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169860"), "id" : "2", "name" : "mohit", "marks" : "70", "city" : "mumbai" }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169861"), "id" : "3", "name" : "jeel", "marks" : "80", "city" : "ahemdabad" }**

**{ "\_id" : ObjectId("6102710979fccf670e169862"), "id" : "4", "name" : "shreays", "marks" : "40", "city" : "satara" }**

**{ "\_id" : ObjectId("6102710979fccf670e169863"), "id" : "5", "name" : "abhinav", "marks" : "50", "city" : "akola" }**

**10.** **> db.student.find().pretty()**

**{**

**"\_id" : ObjectId("61026d4979fccf670e16985e"),**

**"id" : "1",**

**"name" : "sumit",**

**"marks" : "50",**

**"city" : "Pune"**

**}**

**{**

**"\_id" : ObjectId("61026dd379fccf670e16985f"),**

**"id" : "1",**

**"name" : "amit",**

**"marks" : "60",**

**"city" : "Solapur"**

**}**

**{**

**"\_id" : ObjectId("61026f9c79fccf670e169860"),**

**"id" : "2",**

**"name" : "mohit",**

**"marks" : "70",**

**"city" : "mumbai"**

**}**

**{**

**"\_id" : ObjectId("61026f9c79fccf670e169861"),**

**"id" : "3",**

**"name" : "jeel",**

**"marks" : "80",**

**"city" : "ahemdabad"**

**}**

**{**

**"\_id" : ObjectId("6102710979fccf670e169862"),**

**"id" : "4",**

**"name" : "shreays",**

**"marks" : "40",**

**"city" : "satara"**

**}**

**{**

**"\_id" : ObjectId("6102710979fccf670e169863"),**

**"id" : "5",**

**"name" : "abhinav",**

**"marks" : "50",**

**"city" : "akola"**

**}**

**>**

**10.** **> db.createCollection("TEST123")**

**{ "ok" : 1 }**

**show collections**

**TEST123**

**aimcollect**

**employee**

**student**

**> db.TEST123.drop()**

**True**

**12. db.student.remove({"id":"5"})**

**WriteResult({ "nRemoved" : 1 })**

**13. db.student.insertMany([{id : "5",name:"abinav",marks:"55",city:"Nahsik"} ,**

**{id : "6",name:"rohit",marks:"75",city:"Raigadh"}**

**])**

**14.** **db.student.update({"id":"6"},{$set:{"city":"Sangli"}})**

**WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })**

**15.** **db.student.update({"city":"Nahsik"},{$set:{"name":"akshay"}})**

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

**16**. **> db.student.updateMany( {"id":"4"} , {$set: {"city":"Dhule"} , $currentDate : { "lastModified": true } })**

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

>

**17.** **db.getCollection('student').find({"name":{"$eq":"sumit"}})**

**{ "\_id" : ObjectId("61026d4979fccf670e16985e"), "id" : "1", "name" : "sumit", "marks" : "50", "city" : "Pune" }**

**18.** **db.getCollection('student').find({"name":{"$ne":"sumit"}}).pretty()**

**19.** **db.getCollection('student').find({"name":{"$ne":"sumit"}}).pretty().count()**

**6**

**20.** **db.getCollection('student').find({"marks":{"$gt":"60"}}).pretty().count()**

**3**

**21.** **db.getCollection('student').find({"marks":{"$gte":"60"}}).pretty()**

**22.** **db.getCollection('student').find({"marks":{"$lte":"60"}}).pretty()**

**23.** **db.getCollection('student').find({"marks":{"$gt":"50" , "$lte" : "70"}}).pretty()**

**24. db.getCollection("student").find().sort({"name":1})**

**{ "\_id" : ObjectId("6102773079fccf670e169864"), "id" : "5", "name" : "akshay", "marks" : "55", "city" : "Nahsik" }**

**{ "\_id" : ObjectId("61026dd379fccf670e16985f"), "id" : "1", "name" : "amit", "marks" : "60", "city" : "Solapur" }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169861"), "id" : "3", "name" : "jeel", "marks" : "80", "city" : "ahemdabad" }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169860"), "id" : "2", "name" : "mohit", "marks" : "70", "city" : "mumbai" }**

**{ "\_id" : ObjectId("6102773079fccf670e169865"), "id" : "6", "name" : "rohit", "marks" : "75", "city" : "Sangli" }**

**{ "\_id" : ObjectId("6102710979fccf670e169862"), "id" : "4", "name" : "shreays", "marks" : "40", "city" : "Dhule", "lastModified" : ISODate("2021-07-29T10:16:01.194Z") }**

**25.** **> db.getCollection("student").find({ $and: [ {"marks": {$lt : "70"} } , {"city" : "Solapur"} ] })**

{ "\_id" : ObjectId("61026dd379fccf670e16985f"), "id" : "1", "name" : "amit", "marks" : "60", "city" : "Solapur" }

**26.** **db.getCollection("student").find({ $or: [ {"marks": {$lt : "70"} } , {"city" : "Solapur"} ] }).pretty()**

**27.** **db.getCollection('student').find({marks: { $not: {$lt: "70"} }})**

**28.** **db.getCollection('student').find({$and: [ {marks:"70"} , {city: "mumbai"} ]})**

{ "\_id" : ObjectId("61026f9c79fccf670e169860"), "id" : "2", "name" : "mohit", "marks" : "70", "city" : "mumbai" }

**29. db.getCollection('student').find({$or: [ {marks:"70"} , {city: "Solapur"} ]})**

{ "\_id" : ObjectId("61026dd379fccf670e16985f"), "id" : "1", "name" : "amit", "marks" : "60", "city" : "Solapur" }

{ "\_id" : ObjectId("61026f9c79fccf670e169860"), "id" : "2", "name" : "mohit", "marks" : "70", "city" : "mumbai" }

**30.** **> db.getCollection("student").find({"name": {$in:["shreayas","sumit","jeel"]}})**

{ "\_id" : ObjectId("61026d4979fccf670e16985e"), "id" : "1", "name" : "sumit", "marks" : "50", "city" : "Pune" }

{ "\_id" : ObjectId("61026f9c79fccf670e169861"), "id" : "3", "name" : "jeel", "marks" : "80", "city" : "ahemdabad" }

>","sumit","jeel"]}})

**32.db.getCollection("student").find({"name":{$nin:["shreayas","sumit","jeel"]}})**

**33.** **db.getCollection('student').find({$nor: [ {marks:"70"} , {city: "Solapur"} ]})**

**34.** **> db.student.find().sort({"city":1})**

**{ "\_id" : ObjectId("6102710979fccf670e169862"), "id" : "4", "name" : "shreays", "marks" : "40", "city" : "Dhule", "lastModified" : ISODate("2021-07-29T10:16:01.194Z") }**

**{ "\_id" : ObjectId("6102773079fccf670e169864"), "id" : "5", "name" : "akshay", "marks" : "55", "city" : "Nahsik" }**

**{ "\_id" : ObjectId("61026d4979fccf670e16985e"), "id" : "1", "name" : "sumit", "marks" : "50", "city" : "Pune" }**

**{ "\_id" : ObjectId("6102773079fccf670e169865"), "id" : "6", "name" : "rohit", "marks" : "75", "city" : "Sangli" }**

**{ "\_id" : ObjectId("61026dd379fccf670e16985f"), "id" : "1", "name" : "amit", "marks" : "60", "city" : "Solapur" }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169861"), "id" : "3", "name" : "jeel", "marks" : "80", "city" : "ahemdabad" }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169860"), "id" : "2", "name" : "mohit", "marks" : "70", "city" : "mumbai" }**

**35.** **db.student.find().sort({"id":-1})**

**{ "\_id" : ObjectId("6102773079fccf670e169865"), "id" : "6", "name" : "rohit", "marks" : "75", "city" : "Sangli" }**

**{ "\_id" : ObjectId("6102773079fccf670e169864"), "id" : "5", "name" : "akshay", "marks" : "55", "city" : "Nahsik" }**

**{ "\_id" : ObjectId("6102710979fccf670e169862"), "id" : "4", "name" : "shreays", "marks" : "40", "city" : "Dhule", "lastModified" : ISODate("2021-07-29T10:16:01.194Z") }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169861"), "id" : "3", "name" : "jeel", "marks" : "80", "city" : "ahemdabad" }**

**{ "\_id" : ObjectId("61026f9c79fccf670e169860"), "id" : "2", "name" : "mohit", "marks" : "70", "city" : "mumbai" }**

**{ "\_id" : ObjectId("61026d4979fccf670e16985e"), "id" : "1", "name" : "sumit", "marks" : "50", "city" : "Pune" }**

**{ "\_id" : ObjectId("61026dd379fccf670e16985f"), "id" : "1", "name" : "amit", "marks" : "60", "city" : "Solapur" }**

***INDEXING***

**36.** **> db.student.createIndex({"name":1});**

{

"numIndexesBefore" : 1,

"numIndexesAfter" : 2,

"createdCollectionAutomatically" : false,

"ok" : 1

}

>

**37.** **db.student.dropIndex({"name":1});**

**{ "nIndexesWas" : 2, "ok" : 1 }**

**38.** **db.student.createIndex({"name":1,"marks":-1})**

**{**

**"numIndexesBefore" : 1,**

**"numIndexesAfter" : 2,**

**"createdCollectionAutomatically" : false,**

**"ok" : 1**

**}**

**39. db.student.getIndexes()**

**[**

**{**

**"v" : 2,**

**"key" : {**

**"\_id" : 1**

**},**

**"name" : "\_id\_"**

**},**

**{**

**"v" : 2,**

**"key" : {**

**"name" : 1,**

**"marks" : -1**

**},**

**"name" : "name\_1\_marks\_-1"**

**}**

**]**