Microsoft Windows [Version 10.0.19042.985]

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C:\Users\SIDDHESH>cd C:\Program Files\MongoDB\Server\4.4\bin

C:\Program Files\MongoDB\Server\4.4\bin>mongo

MongoDB shell version v4.4.6

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

Implicit session: session { "id" : UUID("aa0cc583-4612-4646-b67e-bd1e19156c46") }

MongoDB server version: 4.4.6

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The server generated these startup warnings when booting:

2021-06-02T09:58:15.047+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

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Enable MongoDB's free cloud-based monitoring service, which will then receive and display

metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you

and anyone you share the URL with. MongoDB may use this information to make product

improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()

To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

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**Show database**

> show dbs

RJC 0.000GB

admin 0.000GB

config 0.000GB

local 0.000GB

**Use Database**

> use cdm

switched to db cdm

**Show Collections**

> show collections

**Create Collection with name customers**

> db.createCollection('customers');

{ "ok" : 1 }

> show collections

Customers

**Create Collection with name staff**

> db.createCollection('staff');

{ "ok" : 1 }

**Inserting single record**

> db.customers.insert({first\_name:'john',first\_name:'Doe'});

WriteResult({ "nInserted" : 1 })

**Looking records**

> db.customers.find().pretty()

{ "\_id" : ObjectId("60bedac05b3a0dd3953e6f5b"), "first\_name" : "Doe" }

> db.customers.insert({first\_name:'john',last\_name:'Doe'});

WriteResult({ "nInserted" : 1 })

> db.customers.find().pretty()

{ "\_id" : ObjectId("60bedac05b3a0dd3953e6f5b"), "first\_name" : "Doe" }

{

"\_id" : ObjectId("60bedb1f5b3a0dd3953e6f5c"),

"first\_name" : "john",

"last\_name" : "Doe"

}

**Insert Many records**

>db.customers.insert([{first\_name:'sid',last\_name:'kadam'},{first\_name:'vikas',last\_name:'bisoi',occupation:'programmer'}])

BulkWriteResult({

"writeErrors" : [ ],

"writeConcernErrors" : [ ],

"nInserted" : 2,

"nUpserted" : 0,

"nMatched" : 0,

"nModified" : 0,

"nRemoved" : 0,

"upserted" : [ ]

})

> db.customers.find().pretty()

{ "\_id" : ObjectId("60bedac05b3a0dd3953e6f5b"), "first\_name" : "Doe" }

{

"\_id" : ObjectId("60bedb1f5b3a0dd3953e6f5c"),

"first\_name" : "john",

"last\_name" : "Doe"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5d"),

"first\_name" : "sid",

"last\_name" : "kadam"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5e"),

"first\_name" : "vikas",

"last\_name" : "bisoi",

"occupation" : "programmer"

}

>db.customers.insert([{first\_name:'panky',last\_name:'singh',occupation:'bpo'},{first\_name:'dheeraj',last\_name:'pal',occupation:'programmer'},{first\_name:'rohit',last\_name:'rajbhar',occupation:'analyst'}])

BulkWriteResult({

"writeErrors" : [ ],

"writeConcernErrors" : [ ],

"nInserted" : 3,

"nUpserted" : 0,

"nMatched" : 0,

"nModified" : 0,

"nRemoved" : 0,

"upserted" : [ ]

})

> db.customers.find().pretty()

{ "\_id" : ObjectId("60bedac05b3a0dd3953e6f5b"), "first\_name" : "Doe" }

{

"\_id" : ObjectId("60bedb1f5b3a0dd3953e6f5c"),

"first\_name" : "john",

"last\_name" : "Doe"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5d"),

"first\_name" : "sid",

"last\_name" : "kadam"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5e"),

"first\_name" : "vikas",

"last\_name" : "bisoi",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f5f"),

"first\_name" : "panky",

"last\_name" : "singh",

"occupation" : "bpo"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f60"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f61"),

"first\_name" : "rohit",

"last\_name" : "rajbhar",

"occupation" : "analyst"

}

>db.customers.insert([{first\_name:'panky',last\_name:'singh',occupation:'bpo',age:20},{first\_name:'dheeraj',last\_name:'pal',occupation:'programmer',age:22},{first\_name:'rohit',last\_name:'rajbhar',occupation:'analyst',age:23}])

BulkWriteResult({

"writeErrors" : [ ],

"writeConcernErrors" : [ ],

"nInserted" : 3,

"nUpserted" : 0,

"nMatched" : 0,

"nModified" : 0,

"nRemoved" : 0,

"upserted" : [ ]

})

> db.customers.find().pretty()

{ "\_id" : ObjectId("60bedac05b3a0dd3953e6f5b"), "first\_name" : "Doe" }

{

"\_id" : ObjectId("60bedb1f5b3a0dd3953e6f5c"),

"first\_name" : "john",

"last\_name" : "Doe"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5d"),

"first\_name" : "sid",

"last\_name" : "kadam"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5e"),

"first\_name" : "vikas",

"last\_name" : "bisoi",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f5f"),

"first\_name" : "panky",

"last\_name" : "singh",

"occupation" : "bpo"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f60"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f61"),

"first\_name" : "rohit",

"last\_name" : "rajbhar",

"occupation" : "analyst"

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f62"),

"first\_name" : "panky",

"last\_name" : "singh",

"occupation" : "bpo",

"age" : 20

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f63"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer",

"age" : 22

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f64"),

"first\_name" : "rohit",

"last\_name" : "rajbhar",

"occupation" : "analyst",

"age" : 23

}

**Inserting records in staff collection**

> db.staff.insert([{first\_name:'goldi',last\_name:'smith',department:'it',age:23,birthday: new Date ('Sep 12,19')},{first\_name:'varun',laast\_name:'kumar',department:'accounts',age:32,birthday: new Date ('Oct 21,20')},{first\_name:'raju',last\_name:'kumar',department:'it',age:35,birthday: new Date ('Jan 02,19')}])

BulkWriteResult({

"writeErrors" : [ ],

"writeConcernErrors" : [ ],

"nInserted" : 3,

"nUpserted" : 0,

"nMatched" : 0,

"nModified" : 0,

"nRemoved" : 0,

"upserted" : [ ]

})

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f65"),

"first\_name" : "goldi",

"last\_name" : "smith",

"department" : "it",

"age" : 23,

"birthday" : ISODate("2019-09-11T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f66"),

"first\_name" : "varun",

"laast\_name" : "kumar",

"department" : "accounts",

"age" : 32,

"birthday" : ISODate("2021-10-19T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "kumar",

"department" : "it",

"age" : 35,

"birthday" : ISODate("2019-01-01T18:30:00Z")

}

**Display only one records**

> db.customers.findOne({first\_name:'dheeraj'})

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f60"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer"

}

> db.customers.find({age:23})

{ "\_id" : ObjectId("60bedd235b3a0dd3953e6f64"), "first\_name" : "rohit", "last\_name" : "rajbhar", "occupation" : "analyst", "age" : 23 }

**Display records with conditions**

> db.customers.find({age:{$in:[23,32]}})

{ "\_id" : ObjectId("60bedd235b3a0dd3953e6f64"), "first\_name" : "rohit", "last\_name" : "rajbhar", "occupation" : "analyst", "age" : 23 }

> db.customers.find({occupation:'programmer',$or:[{age:{$lt:'30'}},{first\_name:/^d/}]}).pretty()

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f60"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f63"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer",

"age" : 22

}

**Adding Array In records**

>db.staff.insert([{first\_name:'himanshu',last\_name:'kore',department:['it','accounts','business','management'],age:21,birthday: new Date('Feb 02,23')}])

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f65"),

"first\_name" : "goldi",

"last\_name" : "smith",

"department" : "it",

"age" : 23,

"birthday" : ISODate("2019-09-11T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f66"),

"first\_name" : "varun",

"laast\_name" : "kumar",

"department" : "accounts",

"age" : 32,

"birthday" : ISODate("2021-10-19T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "kumar",

"department" : "it",

"age" : 35,

"birthday" : ISODate("2019-01-01T18:30:00Z")

}

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

}

**Display record with conditions**

> db.staff.find({department:{$all:['it','management']}}).pretty()

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

> db.customers.update({first\_name:'panky'},{first\_name:'pankaj',last\_name:'singh'})

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

> db.customers.find().pretty()

{ "\_id" : ObjectId("60bedac05b3a0dd3953e6f5b"), "first\_name" : "Doe" }

{

"\_id" : ObjectId("60bedb1f5b3a0dd3953e6f5c"),

"first\_name" : "john",

"last\_name" : "Doe"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5d"),

"first\_name" : "sid",

"last\_name" : "kadam"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5e"),

"first\_name" : "vikas",

"last\_name" : "bisoi",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f5f"),

"first\_name" : "pankaj",

"last\_name" : "singh"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f60"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f61"),

"first\_name" : "rohit",

"last\_name" : "yadav"

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f62"),

"first\_name" : "panky",

"last\_name" : "singh",

"occupation" : "bpo",

"age" : 20

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f63"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer",

"age" : 22

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f64"),

"first\_name" : "rohit",

"last\_name" : "rajbhar",

"occupation" : "analyst",

"age" : 23

}

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f65"),

"first\_name" : "goldi",

"last\_name" : "smith",

"department" : "it",

"age" : 23,

"birthday" : ISODate("2019-09-11T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f66"),

"first\_name" : "varun",

"laast\_name" : "kumar",

"department" : "accounts",

"age" : 32,

"birthday" : ISODate("2021-10-19T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "kumar",

"department" : "it",

"age" : 35,

"birthday" : ISODate("2019-01-01T18:30:00Z")

}

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

}

**Update records**

> db.staff.update({first\_name:'raju'},{first\_name:'raju',last\_name:'yadav'})

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

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f65"),

"first\_name" : "goldi",

"last\_name" : "smith",

"department" : "it",

"age" : 23,

"birthday" : ISODate("2019-09-11T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f66"),

"first\_name" : "varun",

"laast\_name" : "kumar",

"department" : "accounts",

"age" : 32,

"birthday" : ISODate("2021-10-19T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "yadav"

}

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

}

> db.staff.update({first\_name:'goldi'},{$set:{last\_name:'subramanium'}})

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

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f65"),

"first\_name" : "goldi",

"last\_name" : "subramanium",

"department" : "it",

"age" : 23,

"birthday" : ISODate("2019-09-11T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f66"),

"first\_name" : "varun",

"laast\_name" : "kumar",

"department" : "accounts",

"age" : 32,

"birthday" : ISODate("2021-10-19T18:30:00Z"),

"last\_name" : "subramanium"

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "yadav"

}

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

}

**Update records using set operator**

> db.staff.update({first\_name:'raju'},{$set:{last\_name:'yadav',department:'traniee'}})

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

> db.staff.find({first\_name:'raju'}).pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "yadav",

"department" : "traniee"

}

> db.staff.update({first\_name:'sham'},{$set:{last\_name:'shetty',department:'traniee'}},{upsert:true})

WriteResult({

"nMatched" : 0,

"nUpserted" : 1,

"nModified" : 0,

"\_id" : ObjectId("60bf0fce48aab2251ae19c80")

})

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f65"),

"first\_name" : "goldi",

"last\_name" : "subramanium",

"department" : "it",

"age" : 23,

"birthday" : ISODate("2019-09-11T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f66"),

"first\_name" : "varun",

"laast\_name" : "kumar",

"department" : "accounts",

"age" : 32,

"birthday" : ISODate("2021-10-19T18:30:00Z"),

"last\_name" : "subramanium"

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "yadav",

"department" : "traniee"

}

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

}

{

"\_id" : ObjectId("60bf0fce48aab2251ae19c80"),

"first\_name" : "sham",

"department" : "traniee",

"last\_name" : "shetty"

}

**Update record with unset operator**

> db.staff.update({first\_name:'raju'},{$unset:{department:'traniee'}})

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

> db.staff.find({first\_name:'raju'}).pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "yadav"

}

**Removing records**

> db.staff.remove({first\_name:'varun'})

WriteResult({ "nRemoved" : 1 })

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f65"),

"first\_name" : "goldi",

"last\_name" : "subramanium",

"department" : "it",

"age" : 23,

"birthday" : ISODate("2019-09-11T18:30:00Z")

}

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "yadav"

}

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

}

{

"\_id" : ObjectId("60bf0fce48aab2251ae19c80"),

"first\_name" : "sham",

"department" : "traniee",

"last\_name" : "shetty"

}

> db.staff.remove({first\_name:'varun'})

WriteResult({ "nRemoved" : 1 })

> db.staff.find().pretty()

{

"\_id" : ObjectId("60bedeef5b3a0dd3953e6f67"),

"first\_name" : "raju",

"last\_name" : "yadav"

}

{

"\_id" : ObjectId("60bee6695b3a0dd3953e6f68"),

"first\_name" : "himanshu",

"last\_name" : "kore",

"department" : [

"it",

"accounts",

"business",

"management"

],

"age" : 21,

"birthday" : ISODate("2023-02-01T18:30:00Z")

}

{

"\_id" : ObjectId("60bf0fce48aab2251ae19c80"),

"first\_name" : "sham",

"department" : "traniee",

"last\_name" : "shetty"

}

**Delete only one record**

> db.customers.deleteOne({first\_name:'john'})

{ "acknowledged" : true, "deletedCount" : 1 }

> db.customers.find().pretty()

{ "\_id" : ObjectId("60bedac05b3a0dd3953e6f5b"), "first\_name" : "Doe" }

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5d"),

"first\_name" : "sid",

"last\_name" : "kadam"

}

{

"\_id" : ObjectId("60bedbfb5b3a0dd3953e6f5e"),

"first\_name" : "vikas",

"last\_name" : "bisoi",

"occupation" : "programmer"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f5f"),

"first\_name" : "pankaj",

"last\_name" : "singh"

}

{

"\_id" : ObjectId("60bedcef5b3a0dd3953e6f60"),

"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer"

}

{

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"first\_name" : "panky",

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{

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"first\_name" : "dheeraj",

"last\_name" : "pal",

"occupation" : "programmer",

"age" : 22

}

{

"\_id" : ObjectId("60bedd235b3a0dd3953e6f64"),

"first\_name" : "rohit",

"last\_name" : "rajbhar",

"occupation" : "analyst",

"age" : 23

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