TASK\_1:

Please enter a MongoDB connection string (Default: mongodb://localhost/): mongodb+srv://Pra123veen:Pra123veen@praveen04.higkkwc.mongodb.net/?retryWrites=true&w=majority&appName=Praveen04

Please enter a MongoDB connection string (Default: mongodb://localhost/): mongodb+srv://Pra123veen:Pra123veen@praveen04.higkkwc.mongodb.net/?retryWrites=true&w=majority&appName=Praveen04

Current Mongosh Log ID: 66b1f65ec459538070c4e49a

Connecting to: mongodb+srv://<credentials>@praveen04.higkkwc.mongodb.net/?retryWrites=true&w=majority&appName=Praveen04

Using MongoDB: 7.0.12

Using Mongosh: 2.2.12

mongosh 2.2.15 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

Atlas atlas-ngasab-shard-0 [primary] test> use boot;

switched to db boot

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"praveen",Branch:"AIDS"})

{

acknowledged: true,

insertedId: ObjectId('66b1f69dc459538070c4e49b')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"akhil",Branch:"AIDS"})

{

acknowledged: true,

insertedId: ObjectId('66b1f6b5c459538070c4e49c')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"sasi",Branch:"AIDS"})

{

acknowledged: true,

insertedId: ObjectId('66b1f6bec459538070c4e49d')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"prasanth",Branch:"AIDS"})

{

acknowledged: true,

insertedId: ObjectId('66b1f6cdc459538070c4e49e')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"akshay",Branch:"AIDS"})

{

acknowledged: true,

insertedId: ObjectId('66b1f6d7c459538070c4e49f')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"Bhushan",Branch:"IT"})

{

acknowledged: true,

insertedId: ObjectId('66b1f6e8c459538070c4e4a0')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"mahesh",Branch:"ECE"})

{

acknowledged: true,

insertedId: ObjectId('66b1f6fbc459538070c4e4a1')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"bhanu",Branch:"cse"})

{

acknowledged: true,

insertedId: ObjectId('66b1f707c459538070c4e4a2')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"cherry",Branch:"cse"})

{

acknowledged: true,

insertedId: ObjectId('66b1f719c459538070c4e4a3')

}

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertOne({Name:"Gamya",Branch:"ece"})

{

acknowledged: true,

insertedId: ObjectId('66b1f72ac459538070c4e4a4')

}

Task-2:

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.insertMany([

... { Name: "praveen", Age: 23, Branch: "AIDS", Section: "A", city: "srikakulam" },

... { Name: "ganguly", Age: 25, Branch: "ece", Section: "A", city: "vizag" },

... { Name: "prasanth", Age: 21, Branch: "AIDS", Section: "A", city: "kakinada" },

... { Name: "sasi", Age: 23, Branch: "AIDS", Section: "A", city: "vijayawada" },

... { Name: "akhil", Age: 17, Branch: "ECE", Section: "A", city: "srikakulam" },

... { Name: "Deepak", Age: 23, Branch: "MECH", Section: "c", city: "pithapuram" },

... { Name: "vikash", Age: 23, Branch: "AIDS", Section: "A", city: "srikakulam" },

... { Name: "gamya", Age: 23, Branch: "ece", Section: "A", city: "bhimavaram" },

... { Name: "surya", Age: 23, Branch: "civil", Section: "A", city: "bhimavaram" },

... { Name: "kamesh", Age: 22, Branch: "AIDS", Section: "A", city: "srikakulam" },

... { Name: "praveen", Age: 46, Branch: "AIDS", Section: "A", city: "srikakulam" }

... ])

{

acknowledged: true,

insertedIds: {

'0': ObjectId('66b1fa69c459538070c4e4a5'),

'1': ObjectId('66b1fa69c459538070c4e4a6'),

'2': ObjectId('66b1fa69c459538070c4e4a7'),

'3': ObjectId('66b1fa69c459538070c4e4a8'),

'4': ObjectId('66b1fa69c459538070c4e4a9'),

'5': ObjectId('66b1fa69c459538070c4e4aa'),

'6': ObjectId('66b1fa69c459538070c4e4ab'),

'7': ObjectId('66b1fa69c459538070c4e4ac'),

'8': ObjectId('66b1fa69c459538070c4e4ad'),

'9': ObjectId('66b1fa69c459538070c4e4ae'),

'10': ObjectId('66b1fa69c459538070c4e4af')

}

}

TASK\_3:

// Find documents where Age is less than or equal to 23

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Age: { $lte: 23 } })

[

{

\_id: ObjectId('66b1fa69c459538070c4e4a5'),

Name: 'praveen',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a8'),

Name: 'sasi',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'vijayawada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a9'),

Name: 'akhil',

Age: 17,

Branch: 'ECE',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4aa'),

Name: 'Deepak',

Age: 23,

Branch: 'MECH',

Section: 'c',

city: 'pithapuram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ab'),

Name: 'vikash',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ac'),

Name: 'gamya',

Age: 23,

Branch: 'ece',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ad'),

Name: 'surya',

Age: 23,

Branch: 'civil',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ae'),

Name: 'kamesh',

Age: 22,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

}

]

// Find documents where Age is greater than or equal to 21

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Age: { $gte: 21 } })

[

{

\_id: ObjectId('66b1fa69c459538070c4e4a5'),

Name: 'praveen',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a6'),

Name: 'ganguly',

Age: 25,

Branch: 'ece',

Section: 'A',

city: 'vizag'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a8'),

Name: 'sasi',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'vijayawada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4aa'),

Name: 'Deepak',

Age: 23,

Branch: 'MECH',

Section: 'c',

city: 'pithapuram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ab'),

Name: 'vikash',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ac'),

Name: 'gamya',

Age: 23,

Branch: 'ece',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ad'),

Name: 'surya',

Age: 23,

Branch: 'civil',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ae'),

Name: 'kamesh',

Age: 22,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4af'),

Name: 'praveen',

Age: 46,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

}

]

// Find documents where Age is not equal to 23

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Age: { $ne: 23 } })

[

{

\_id: ObjectId('66b1f69dc459538070c4e49b'),

Name: 'praveen',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6b5c459538070c4e49c'),

Name: 'akhil',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6bec459538070c4e49d'),

Name: 'sasi',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6cdc459538070c4e49e'),

Name: 'prasanth',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6d7c459538070c4e49f'),

Name: 'akshay',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6e8c459538070c4e4a0'),

Name: 'Bhushan',

Branch: 'IT'

},

{

\_id: ObjectId('66b1f6fbc459538070c4e4a1'),

Name: 'mahesh',

Branch: 'ECE'

},

{

\_id: ObjectId('66b1f707c459538070c4e4a2'),

Name: 'bhanu',

Branch: 'cse'

},

{

\_id: ObjectId('66b1f719c459538070c4e4a3'),

Name: 'cherry',

Branch: 'cse'

},

{

\_id: ObjectId('66b1f72ac459538070c4e4a4'),

Name: 'Gamya',

Branch: 'ece'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a6'),

Name: 'ganguly',

Age: 25,

Branch: 'ece',

Section: 'A',

city: 'vizag'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a9'),

Name: 'akhil',

Age: 17,

Branch: 'ECE',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ae'),

Name: 'kamesh',

Age: 22,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4af'),

Name: 'praveen',

Age: 46,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

}

]

// Find documents where Age is equal to 21

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Age: { $eq: 21 } })

[

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

}

]

// Find documents where Age is greater than 20

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Age: { $gt: 20 } })

[

{

\_id: ObjectId('66b1fa69c459538070c4e4a5'),

Name: 'praveen',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a6'),

Name: 'ganguly',

Age: 25,

Branch: 'ece',

Section: 'A',

city: 'vizag'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a8'),

Name: 'sasi',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'vijayawada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4aa'),

Name: 'Deepak',

Age: 23,

Branch: 'MECH',

Section: 'c',

city: 'pithapuram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ab'),

Name: 'vikash',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ac'),

Name: 'gamya',

Age: 23,

Branch: 'ece',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ad'),

Name: 'surya',

Age: 23,

Branch: 'civil',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ae'),

Name: 'kamesh',

Age: 22,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4af'),

Name: 'praveen',

Age: 46,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

}

]

// Find documents where Age is less than 25

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Age: { $lt: 25 } })

[

{

\_id: ObjectId('66b1fa69c459538070c4e4a5'),

Name: 'praveen',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a8'),

Name: 'sasi',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'vijayawada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a9'),

Name: 'akhil',

Age: 17,

Branch: 'ECE',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4aa'),

Name: 'Deepak',

Age: 23,

Branch: 'MECH',

Section: 'c',

city: 'pithapuram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ab'),

Name: 'vikash',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ac'),

Name: 'gamya',

Age: 23,

Branch: 'ece',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ad'),

Name: 'surya',

Age: 23,

Branch: 'civil',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ae'),

Name: 'kamesh',

Age: 22,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

}

]

// Find documents where Branch is either "ece" or "MECH"

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Branch: { $in: ["ece", "MECH"] } })

[

{

\_id: ObjectId('66b1f72ac459538070c4e4a4'),

Name: 'Gamya',

Branch: 'ece'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a6'),

Name: 'ganguly',

Age: 25,

Branch: 'ece',

Section: 'A',

city: 'vizag'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4aa'),

Name: 'Deepak',

Age: 23,

Branch: 'MECH',

Section: 'c',

city: 'pithapuram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ac'),

Name: 'gamya',

Age: 23,

Branch: 'ece',

Section: 'A',

city: 'bhimavaram'

}

]

// Find documents where the city field exists

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ city: { $exists: true } })

[

{

\_id: ObjectId('66b1fa69c459538070c4e4a5'),

Name: 'praveen',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a6'),

Name: 'ganguly',

Age: 25,

Branch: 'ece',

Section: 'A',

city: 'vizag'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a8'),

Name: 'sasi',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'vijayawada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a9'),

Name: 'akhil',

Age: 17,

Branch: 'ECE',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4aa'),

Name: 'Deepak',

Age: 23,

Branch: 'MECH',

Section: 'c',

city: 'pithapuram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ab'),

Name: 'vikash',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ac'),

Name: 'gamya',

Age: 23,

Branch: 'ece',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ad'),

Name: 'surya',

Age: 23,

Branch: 'civil',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ae'),

Name: 'kamesh',

Age: 22,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4af'),

Name: 'praveen',

Age: 46,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

}

]

// Find documents where the Name field is of type string

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.find({ Name: { $type: "string" } })

[

{

\_id: ObjectId('66b1f69dc459538070c4e49b'),

Name: 'praveen',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6b5c459538070c4e49c'),

Name: 'akhil',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6bec459538070c4e49d'),

Name: 'sasi',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6cdc459538070c4e49e'),

Name: 'prasanth',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6d7c459538070c4e49f'),

Name: 'akshay',

Branch: 'AIDS'

},

{

\_id: ObjectId('66b1f6e8c459538070c4e4a0'),

Name: 'Bhushan',

Branch: 'IT'

},

{

\_id: ObjectId('66b1f6fbc459538070c4e4a1'),

Name: 'mahesh',

Branch: 'ECE'

},

{

\_id: ObjectId('66b1f707c459538070c4e4a2'),

Name: 'bhanu',

Branch: 'cse'

},

{

\_id: ObjectId('66b1f719c459538070c4e4a3'),

Name: 'cherry',

Branch: 'cse'

},

{

\_id: ObjectId('66b1f72ac459538070c4e4a4'),

Name: 'Gamya',

Branch: 'ece'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a5'),

Name: 'praveen',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a6'),

Name: 'ganguly',

Age: 25,

Branch: 'ece',

Section: 'A',

city: 'vizag'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a7'),

Name: 'prasanth',

Age: 21,

Branch: 'AIDS',

Section: 'A',

city: 'kakinada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a8'),

Name: 'sasi',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'vijayawada'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4a9'),

Name: 'akhil',

Age: 17,

Branch: 'ECE',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4aa'),

Name: 'Deepak',

Age: 23,

Branch: 'MECH',

Section: 'c',

city: 'pithapuram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ab'),

Name: 'vikash',

Age: 23,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ac'),

Name: 'gamya',

Age: 23,

Branch: 'ece',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ad'),

Name: 'surya',

Age: 23,

Branch: 'civil',

Section: 'A',

city: 'bhimavaram'

},

{

\_id: ObjectId('66b1fa69c459538070c4e4ae'),

Name: 'kamesh',

Age: 22,

Branch: 'AIDS',

Section: 'A',

city: 'srikakulam'

}

]

TASK\_4:

// Update a single document where Name is "praveen"

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.updateOne(

... { Name: "praveen" },

... {

... $set: {

... Age: 30,

... Branch: "AIDS"

... }

... }

... )

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

// Update multiple documents where Age is less than 25

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.updateMany(

... { Age: { $lt: 25 } },

... {

... $set: {

... Age: 17,

... Branch: "AIDS"

... }

... }

... )

{

acknowledged: true,

insertedId: null,

matchedCount: 9,

modifiedCount: 9,

upsertedCount: 0

}

TASK\_5:

Use-or

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.deleteMany(

... {

... $or: [

... { Age: { $lt: 18 } }, // Age less than 18

... { Age: { $gt: 60 } } // Age greater than 60

... ]

... }

... )

{ acknowledged: true, deletedCount: 9 }

Atlas atlas-ngasab-shard-0 [primary] boot> db.boot.deleteMany(

... {

... $or: [

... { Age: { $lt: 18 } },

... { Age: { $gt: 60 } }

... ]

... }

... )

{ acknowledged: true, deletedCount: 0 }

Use-and:

Atlas atlas-ngasab-shard-0 [primary] boot> db.collectionName.deleteMany(

... {

... $and: [

... { Age: { $lt: 18 } },

... { Name: "praveen" }

... ]

... }

... )

{ acknowledged: true, deletedCount: 0 }