**MongoDB shell version v4.2.7**

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

**Implicit session: session { "id" : UUID("816a19ef-2941-4fe6-a1fe-820293bde486") }**

**MongoDB server version: 4.2.7**

**Server has startup warnings:**

**2020-06-01T12:59:08.480+0530 I CONTROL [initandlisten]**

**2020-06-01T12:59:08.480+0530 I CONTROL [initandlisten] \*\* WARNING: Access control is not enabled for the database.**

**2020-06-01T12:59:08.480+0530 I CONTROL [initandlisten] \*\* Read and write access to data and configuration is unrestricted.**

**2020-06-01T12:59:08.480+0530 I CONTROL [initandlisten]**

**---**

**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()**

**---**

> use techment

switched to db techment

> show dbs

admin 0.000GB

config 0.000GB

local 0.000GB

techment 0.000GB

> show collections

employee

student

> db.employee.drop()

true

> db.createCollection("employee")

{ "ok" : 1 }

> db.createCollection("student")

{

"ok" : 0,

"errmsg" : "a collection 'techment.student' already exists",

"code" : 48,

"codeName" : "NamespaceExists"

}

> db.student.drop()

true

> db.createCollection("student")

{ "ok" : 1 }

> db.createCollection("address")

{ "ok" : 1 }

> db.address.drop()

true

> show collections

employee

student

> db.employee.insert({})

WriteResult({ "nInserted" : 1 })

> db.employee.insert({"name":"ravi","dept": "kumar"})

WriteResult({ "nInserted" : 1 })

> db.employee.insert({"name":"sachin","dept": "Hr"})

WriteResult({ "nInserted" : 1 })

> db.employee.find()

{ "\_id" : ObjectId("5ed5d8a31ee3f12a581db29c") }

{ "\_id" : ObjectId("5ed5d8df1ee3f12a581db29d"), "name" : "ravi", "dept" : "kumar" }

{ "\_id" : ObjectId("5ed5d9201ee3f12a581db29e"), "name" : "sachin", "dept" : "Hr" }

> db.employee.find().pretty()

{ "\_id" : ObjectId("5ed5d8a31ee3f12a581db29c") }

{

"\_id" : ObjectId("5ed5d8df1ee3f12a581db29d"),

"name" : "ravi",

"dept" : "kumar"

}

{

"\_id" : ObjectId("5ed5d9201ee3f12a581db29e"),

"name" : "sachin",

"dept" : "Hr"

}

> db.student.insert({"\_id":1,"name":"mahesh","dept": "cse"})

WriteResult({ "nInserted" : 1 })

> db.student.insert({"\_id":1,"name":"ramesh","dept": "cse"})

WriteResult({

"nInserted" : 0,

"writeError" : {

"code" : 11000,

"errmsg" : "E11000 duplicate key error collection: techment.student index: \_id\_ dup key: { \_id: 1.0 }"

}

})

> db.student.insert({"\_id":2,"name":"ramesh","dept": "cse"})

WriteResult({ "nInserted" : 1 })

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

{ "\_id" : 1, "name" : "mahesh", "dept" : "cse" }

{ "\_id" : 2, "name" : "ramesh", "dept" : "cse" }

> db.student.find({"dept":"cse"}).pretty()

{ "\_id" : 1, "name" : "mahesh", "dept" : "cse" }

{ "\_id" : 2, "name" : "ramesh", "dept" : "cse" }

> db.student.insert({"\_id":3,"name":"suresh","dept": "mech"})

WriteResult({ "nInserted" : 1 })

> db.student.insert({"\_id":4,"name":"neeta","dept": "cse"})

WriteResult({ "nInserted" : 1 })

> db.student.find({"dept":"cse"}).pretty()

{ "\_id" : 1, "name" : "mahesh", "dept" : "cse" }

{ "\_id" : 2, "name" : "ramesh", "dept" : "cse" }

{ "\_id" : 4, "name" : "neeta", "dept" : "cse" }

> db.student.find({"\_id":{$eq:2}}).pretty()

{ "\_id" : 2, "name" : "ramesh", "dept" : "cse" }

> db.createCollection("emp")

{ "ok" : 1 }

> db.emp.insert({"\_id":1,"name":"neeta","dept": "cse","salary":1000,"age":19})

WriteResult({ "nInserted" : 1 })

> db.emp.insert({"\_id":2,"name":"ramesh","dept": "cse","salary":8000,"age":19})

WriteResult({ "nInserted" : 1 })

> db.emp.insert({"\_id":3,"name":"suresh","dept": "mech","salary":900,"age":18})

WriteResult({ "nInserted" : 1 })

> db.emp.insert({"\_id":4,"name":"kumar","dept": "ece","salary":9000,"age":21})

WriteResult({ "nInserted" : 1 })

> db.emp.insert({"\_id":5,"name":"ajit","dept": "civil","salary":900,"age":17})

WriteResult({ "nInserted" : 1 })

> db.emp.find({"salary":{$gt:1000}}).pretty()

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 4,

"name" : "kumar",

"dept" : "ece",

"salary" : 9000,

"age" : 21

}

> db.emp.find({"salary":{$gte:1000}}).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 4,

"name" : "kumar",

"dept" : "ece",

"salary" : 9000,

"age" : 21

}

> db.emp.find({"salary":{$lt:1100}}).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 3,

"name" : "suresh",

"dept" : "mech",

"salary" : 900,

"age" : 18

}

{

"\_id" : 5,

"name" : "ajit",

"dept" : "civil",

"salary" : 900,

"age" : 17

}

> db.emp.find({"age":{$lt:20}}).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 3,

"name" : "suresh",

"dept" : "mech",

"salary" : 900,

"age" : 18

}

{

"\_id" : 5,

"name" : "ajit",

"dept" : "civil",

"salary" : 900,

"age" : 17

}

> db.emp.find({"age":{$ne:18}}).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 4,

"name" : "kumar",

"dept" : "ece",

"salary" : 9000,

"age" : 21

}

{

"\_id" : 5,

"name" : "ajit",

"dept" : "civil",

"salary" : 900,

"age" : 17

}

> db.emp.find({"age":18 , "age" :19}).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

> db.emp.find({$or: [{"age":18} , {"age" :19}]}).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 3,

"name" : "suresh",

"dept" : "mech",

"salary" : 900,

"age" : 18

}

> db.emp.find({$and: [{"age":18} , {"age" :19}]}).pretty()

> db.emp.find({$and: [{"name":"ramesh"} , {"age" :19}]}).pretty()

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

> db.emp.find({$and: [{"name":"ramesh"} , {"age" :20}]}).pretty()

> db.emp.find({"name":"ramesh" , "age" :19}).pretty()

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

> db.emp.find({"name":"ramesh" , "age" :20}).pretty()

> db.emp.find({$not: [{"name":"ramesh"} ]}).pretty()

Error: error: {

"ok" : 0,

"errmsg" : "unknown top level operator: $not",

"code" : 2,

"codeName" : "BadValue"

}

> db.emp.find({$not: {"name":"ramesh"} }).pretty()

Error: error: {

"ok" : 0,

"errmsg" : "unknown top level operator: $not",

"code" : 2,

"codeName" : "BadValue"

}

> db.emp.find({$not: ["name":"ramesh"] }).pretty()

> db.emp.find({age : {$not: {$eq:18}} }).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 4,

"name" : "kumar",

"dept" : "ece",

"salary" : 9000,

"age" : 21

}

{

"\_id" : 5,

"name" : "ajit",

"dept" : "civil",

"salary" : 900,

"age" : 17

}

> db.emp.find({},{"\_id":0,"name":1}).pretty()

{ "name" : "neeta" }

{ "name" : "ramesh" }

{ "name" : "suresh" }

{ "name" : "kumar" }

{ "name" : "ajit" }

> db.emp.find({},{"\_id":0,"name":0}).pretty()

{ "dept" : "cse", "salary" : 1000, "age" : 19 }

{ "dept" : "cse", "salary" : 8000, "age" : 19 }

{ "dept" : "mech", "salary" : 900, "age" : 18 }

{ "dept" : "ece", "salary" : 9000, "age" : 21 }

{ "dept" : "civil", "salary" : 900, "age" : 17 }

> db.emp.find({},{"\_id":1,"name":1}).pretty()

{ "\_id" : 1, "name" : "neeta" }

{ "\_id" : 2, "name" : "ramesh" }

{ "\_id" : 3, "name" : "suresh" }

{ "\_id" : 4, "name" : "kumar" }

{ "\_id" : 5, "name" : "ajit" }

> db.emp.find({},{"\_id":1,"name":1,"dept":1}).pretty()

{ "\_id" : 1, "name" : "neeta", "dept" : "cse" }

{ "\_id" : 2, "name" : "ramesh", "dept" : "cse" }

{ "\_id" : 3, "name" : "suresh", "dept" : "mech" }

{ "\_id" : 4, "name" : "kumar", "dept" : "ece" }

{ "\_id" : 5, "name" : "ajit", "dept" : "civil" }

> db.emp.find({},{"\_id":1}).pretty()

{ "\_id" : 1 }

{ "\_id" : 2 }

{ "\_id" : 3 }

{ "\_id" : 4 }

{ "\_id" : 5 }

> db.emp.find({},{"\_id":0,"name":1}).pretty()

{ "name" : "neeta" }

{ "name" : "ramesh" }

{ "name" : "suresh" }

{ "name" : "kumar" }

{ "name" : "ajit" }

> db.emp.find({},{"dept":0},{"name":1},{"\_id":1}).pretty()

{ "\_id" : 1, "name" : "neeta", "salary" : 1000, "age" : 19 }

{ "\_id" : 2, "name" : "ramesh", "salary" : 8000, "age" : 19 }

{ "\_id" : 3, "name" : "suresh", "salary" : 900, "age" : 18 }

{ "\_id" : 4, "name" : "kumar", "salary" : 9000, "age" : 21 }

{ "\_id" : 5, "name" : "ajit", "salary" : 900, "age" : 17 }

> db.emp.find({"dept":0},{"name":1},{"\_id":1}).pretty()

> db.emp.find({"dept":0},{"name":1},{"\_id":1}).pretty()

> db.emp.find({"dept":0},{"name":1},{"\_id":1}).pretty()

> db.emp.find({},{"dept":0},{"name":1},{"\_id":1}).pretty()

{ "\_id" : 1, "name" : "neeta", "salary" : 1000, "age" : 19 }

{ "\_id" : 2, "name" : "ramesh", "salary" : 8000, "age" : 19 }

{ "\_id" : 3, "name" : "suresh", "salary" : 900, "age" : 18 }

{ "\_id" : 4, "name" : "kumar", "salary" : 9000, "age" : 21 }

{ "\_id" : 5, "name" : "ajit", "salary" : 900, "age" : 17 }

> db.emp.find({},{"dept":0},{"name":0},{"\_id":0}).pretty()

{ "\_id" : 1, "name" : "neeta", "salary" : 1000, "age" : 19 }

{ "\_id" : 2, "name" : "ramesh", "salary" : 8000, "age" : 19 }

{ "\_id" : 3, "name" : "suresh", "salary" : 900, "age" : 18 }

{ "\_id" : 4, "name" : "kumar", "salary" : 9000, "age" : 21 }

{ "\_id" : 5, "name" : "ajit", "salary" : 900, "age" : 17 }

> db.emp.find({}).pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 3,

"name" : "suresh",

"dept" : "mech",

"salary" : 900,

"age" : 18

}

{

"\_id" : 4,

"name" : "kumar",

"dept" : "ece",

"salary" : 9000,

"age" : 21

}

{

"\_id" : 5,

"name" : "ajit",

"dept" : "civil",

"salary" : 900,

"age" : 17

}

> db.emp.find().pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 3,

"name" : "suresh",

"dept" : "mech",

"salary" : 900,

"age" : 18

}

{

"\_id" : 4,

"name" : "kumar",

"dept" : "ece",

"salary" : 9000,

"age" : 21

}

{

"\_id" : 5,

"name" : "ajit",

"dept" : "civil",

"salary" : 900,

"age" : 17

}

> db.emp.find().pretty()

{

"\_id" : 1,

"name" : "neeta",

"dept" : "cse",

"salary" : 1000,

"age" : 19

}

{

"\_id" : 2,

"name" : "ramesh",

"dept" : "cse",

"salary" : 8000,

"age" : 19

}

{

"\_id" : 3,

"name" : "suresh",

"dept" : "mech",

"salary" : 900,

"age" : 18

}

{

"\_id" : 4,

"name" : "kumar",

"dept" : "ece",

"salary" : 9000,

"age" : 21

}

{

"\_id" : 5,

"name" : "ajit",

"dept" : "civil",

"salary" : 900,

"age" : 17

}

>