Mongodb server advenced 7

Coding part:

mydatabase> db.employees.find().sort({\_id:-1})

[

{

\_id: 6,

firstName: 'Amitabh',

lastName: 'B',

email: 'amitabh.b@abc.com',

salary: 7000

},

{

\_id: 5,

firstName: 'Kapil',

lastName: 'D',

email: 'kapil.d@abc.com',

salary: 4500,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: 4,

firstName: 'Steve',

lastName: 'J',

email: 'steve.j@abc.com',

salary: 7000

},

{

\_id: 3,

firstName: 'James',

lastName: 'Bond',

email: 'jamesb@abc.com',

salary: 7500,

skills: [ 'Sales', 'Marketing' ],

department: { name: 'Marketing' }

},

{

\_id: 2,

firstName: 'Sachin',

lastName: 'T',

email: 'sachin.t@abc.com',

salary: 8000,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: 1,

firstName: 'John',

lastName: 'King',

email: 'john.king@abc.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' }

}

]

mydatabase> db.employees.find().sort({salary:-1})

[

{

\_id: 2,

firstName: 'Sachin',

lastName: 'T',

email: 'sachin.t@abc.com',

salary: 8000,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: 3,

firstName: 'James',

lastName: 'Bond',

email: 'jamesb@abc.com',

salary: 7500,

skills: [ 'Sales', 'Marketing' ],

department: { name: 'Marketing' }

},

{

\_id: 4,

firstName: 'Steve',

lastName: 'J',

email: 'steve.j@abc.com',

salary: 7000

},

{

\_id: 6,

firstName: 'Amitabh',

lastName: 'B',

email: 'amitabh.b@abc.com',

salary: 7000

},

{

\_id: 1,

firstName: 'John',

lastName: 'King',

email: 'john.king@abc.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' }

},

{

\_id: 5,

firstName: 'Kapil',

lastName: 'D',

email: 'kapil.d@abc.com',

salary: 4500,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

}

]

mydatabase> db.employees.find({salary:{$gt:5000}}).sort({salary:-1})

[

{

\_id: 2,

firstName: 'Sachin',

lastName: 'T',

email: 'sachin.t@abc.com',

salary: 8000,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: 3,

firstName: 'James',

lastName: 'Bond',

email: 'jamesb@abc.com',

salary: 7500,

skills: [ 'Sales', 'Marketing' ],

department: { name: 'Marketing' }

},

{

\_id: 4,

firstName: 'Steve',

lastName: 'J',

email: 'steve.j@abc.com',

salary: 7000

},

{

\_id: 6,

firstName: 'Amitabh',

lastName: 'B',

email: 'amitabh.b@abc.com',

salary: 7000

}

]

mydatabase> db.employees.find({salary:{$gte:7000}}).sort({salary:1})

[

{

\_id: 4,

firstName: 'Steve',

lastName: 'J',

email: 'steve.j@abc.com',

salary: 7000

},

{

\_id: 6,

firstName: 'Amitabh',

lastName: 'B',

email: 'amitabh.b@abc.com',

salary: 7000

},

{

\_id: 3,

firstName: 'James',

lastName: 'Bond',

email: 'jamesb@abc.com',

salary: 7500,

skills: [ 'Sales', 'Marketing' ],

department: { name: 'Marketing' }

},

{

\_id: 2,

firstName: 'Sachin',

lastName: 'T',

email: 'sachin.t@abc.com',

salary: 8000,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

}

]

mydatabase> db.employees.find({salary:{$gte:80000}}).sort({salary:1})

[

{

\_id: ObjectId("635cbb8d1bc43a2866caf657"),

firstName: 'Hassan Ali',

lastName: 'Quershi',

email: 'HassanAli875@gmail.com',

salary: 80000

},

{

\_id: ObjectId("635cbaf81bc43a2866caf656"),

firstName: 'Zubair Ali',

lastName: 'Hassan',

email: 'ZubairAli675@gmail.com',

salary: 85000

},

{

\_id: ObjectId("635cbbd21bc43a2866caf658"),

firstName: 'Ajman ullah ',

lastName: 'Khan',

email: 'ajman41288@gmail.com',

salary: 87000

},

{

\_id: ObjectId("635cbbf91bc43a2866caf659"),

firstName: 'Zohra ',

lastName: 'naseem',

email: 'Zohranaseem@gmail.com',

salary: 87000

},

{

\_id: ObjectId("635cbabc1bc43a2866caf655"),

firstName: 'Waqas',

lastName: 'Ahmad',

email: 'waqasahmat234@gmail.com',

salary: 750000

}

]

... {

... \_id:1,

... firstName: "John",

... lastName: "King",

... email: "john.king@abc.com",

... salary: 5000,

... skills: [ "Angular", "React", "MongoDB" ],

... department: {

... "name":"IT"

... }

... },

... {

... \_id:2,

... firstName: "Sachin",

... lastName: "T",

... email: "sachin.t@abc.com",

... salary: 8000,

... skills: [ "Accounting", "Tax" ],

... department: {

... "name":"Finance"

... }

... },

... {

... \_id:3,

... firstName: "James",

... lastName: "Bond",

... email: "jamesb@abc.com",

... salary: 7500,

... skills: [ "Sales", "Marketing" ],

... department: {

... "name":"Marketing"

... }

... },

... {

... \_id:4,

... firstName: "Steve",

... lastName: "J",

... email: "steve.j@abc.com",

... salary: 7000

...

... },

... {

... \_id:5,

... firstName: "Kapil",

... lastName: "D",

... email: "kapil.d@abc.com",

... salary: 4500,

... skills: [ "Accounting", "Tax" ],

... department: {

... "name":"Finance"

... }

...

... },

... {

... \_id:6,

... firstName: "Amitabh",

... lastName: "B",

... email: "amitabh.b@abc.com",

... salary: 7000

... }

... ])

Uncaught:

MongoBulkWriteError: E11000 duplicate key error collection: mydatabase.employees index: \_id\_ dup key: { \_id: 1 }

Result: BulkWriteResult {

result: {

ok: 1,

writeErrors: [

WriteError {

err: {

index: 0,

code: 11000,

errmsg: 'E11000 duplicate key error collection: mydatabase.employees index: \_id\_ dup key: { \_id: 1 }',

errInfo: undefined,

op: {

\_id: 1,

firstName: 'John',

lastName: 'King',

email: 'john.king@abc.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' }

}

}

}

],

writeConcernErrors: [],

insertedIds: [

{ index: 0, \_id: 1 },

{ index: 1, \_id: 2 },

{ index: 2, \_id: 3 },

{ index: 3, \_id: 4 },

{ index: 4, \_id: 5 },

{ index: 5, \_id: 6 }

],

nInserted: 0,

nUpserted: 0,

nMatched: 0,

nModified: 0,

nRemoved: 0,

upserted: []

}

}

... {

...

... firstName: "John",

... lastName: "King",

... email: "john.king@abc.com",

... salary: 5000,

... skills: [ "Angular", "React", "MongoDB" ],

... department: {

... "name":"IT"

... }

... },

... {

... \_id:2,

... firstName: "Sachin",

... lastName: "T",

... email: "sachin.t@abc.com",

... salary: 8000,

... skills: [ "Accounting", "Tax" ],

... department: {

... "name":"Finance"

... }

... },

... {

...

... firstName: "James",

... lastName: "Bond",

... email: "jamesb@abc.com",

... salary: 7500,

... skills: [ "Sales", "Marketing" ],

... department: {

... "name":"Marketing"

... }

... },

... {

...

... firstName: "Steve",

... lastName: "J",

... email: "steve.j@abc.com",

... salary: 7000

...

... },

... {

... firstName: "Kapil",

... lastName: "D",

... email: "kapil.d@abc.com",

... salary: 4500,

... skills: [ "Accounting", "Tax" ],

... department: {

... "name":"Finance"

... }

...

... },

... {

...

... firstName: "Amitabh",

... lastName: "B",

... email: "amitabh.b@abc.com",

... salary: 7000

... }

... ])

Uncaught:

MongoBulkWriteError: E11000 duplicate key error collection: mydatabase.employees index: \_id\_ dup key: { \_id: 2 }

Result: BulkWriteResult {

result: {

ok: 1,

writeErrors: [

WriteError {

err: {

index: 1,

code: 11000,

errmsg: 'E11000 duplicate key error collection: mydatabase.employees index: \_id\_ dup key: { \_id: 2 }',

errInfo: undefined,

op: {

\_id: 2,

firstName: 'Sachin',

lastName: 'T',

email: 'sachin.t@abc.com',

salary: 8000,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

}

}

}

],

writeConcernErrors: [],

insertedIds: [

{ index: 0, \_id: ObjectId("635cc2380ac0ff7a169fad1a") },

{ index: 1, \_id: 2 },

{ index: 2, \_id: ObjectId("635cc2380ac0ff7a169fad1b") },

{ index: 3, \_id: ObjectId("635cc2380ac0ff7a169fad1c") },

{ index: 4, \_id: ObjectId("635cc2380ac0ff7a169fad1d") },

{ index: 5, \_id: ObjectId("635cc2380ac0ff7a169fad1e") }

],

nInserted: 1,

nUpserted: 0,

nMatched: 0,

nModified: 0,

nRemoved: 0,

upserted: []

}

}

... {

...

... firstName: "John",

... lastName: "King",

... email: "john.king@abc.com",

... salary: 5000,

... skills: [ "Angular", "React", "MongoDB" ],

... department: {

... "name":"IT"

... }

... },

... {

...

... firstName: "Sachin",

... lastName: "T",

... email: "sachin.t@abc.com",

... salary: 8000,

... skills: [ "Accounting", "Tax" ],

... department: {

... "name":"Finance"

... }

... },

... {

...

... firstName: "James",

... lastName: "Bond",

... email: "jamesb@abc.com",

... salary: 7500,

... skills: [ "Sales", "Marketing" ],

... department: {

... "name":"Marketing"

... }

... },

... {

...

... firstName: "Steve",

... lastName: "J",

... email: "steve.j@abc.com",

... salary: 7000

...

... },

... {

... firstName: "Kapil",

... lastName: "D",

... email: "kapil.d@abc.com",

... salary: 4500,

... skills: [ "Accounting", "Tax" ],

... department: {

... "name":"Finance"

... }

...

... },

... {

...

... firstName: "Amitabh",

... lastName: "B",

... email: "amitabh.b@abc.com",

... salary: 7000

... }

mydatabase> db.employees.find().sort({"department.name":1})

[

{cknowledged: true,

\_id: 4,ds: {

firstName: 'Steve',c2bf0ac0ff7a169fad1f"),

lastName: 'J',"635cc2bf0ac0ff7a169fad20"),

email: 'steve.j@abc.com',c0ff7a169fad21"),

salary: 7000d("635cc2bf0ac0ff7a169fad22"),

},'4': ObjectId("635cc2bf0ac0ff7a169fad23"),

{ '5': ObjectId("635cc2bf0ac0ff7a169fad24")

\_id: 6,

firstName: 'Amitabh',

lastName: 'B',

email: 'amitabh.b@abc.com',

salary: 7000

},

{

\_id: ObjectId("635cbabc1bc43a2866caf655"),

firstName: 'Waqas',

lastName: 'Ahmad',

email: 'waqasahmat234@gmail.com',

salary: 750000

},

{

\_id: ObjectId("635cbaf81bc43a2866caf656"),

firstName: 'Zubair Ali',

lastName: 'Hassan',

email: 'ZubairAli675@gmail.com',

salary: 85000

},

{

\_id: ObjectId("635cbb8d1bc43a2866caf657"),

firstName: 'Hassan Ali',

lastName: 'Quershi',

email: 'HassanAli875@gmail.com',

salary: 80000

},

{

\_id: ObjectId("635cbbd21bc43a2866caf658"),

firstName: 'Ajman ullah ',

lastName: 'Khan',

email: 'ajman41288@gmail.com',

salary: 87000

},

{

\_id: ObjectId("635cbbf91bc43a2866caf659"),

firstName: 'Zohra ',

lastName: 'naseem',

email: 'Zohranaseem@gmail.com',

salary: 87000

},

{

\_id: ObjectId("635cc2bf0ac0ff7a169fad22"),

firstName: 'Steve',

lastName: 'J',

email: 'steve.j@abc.com',

salary: 7000

},

{

\_id: ObjectId("635cc2bf0ac0ff7a169fad24"),

firstName: 'Amitabh',

lastName: 'B',

email: 'amitabh.b@abc.com',

salary: 7000

},

{

\_id: 2,

firstName: 'Sachin',

lastName: 'T',

email: 'sachin.t@abc.com',

salary: 8000,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: 5,

firstName: 'Kapil',

lastName: 'D',

email: 'kapil.d@abc.com',

salary: 4500,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: ObjectId("635cc2bf0ac0ff7a169fad20"),

firstName: 'Sachin',

lastName: 'T',

email: 'sachin.t@abc.com',

salary: 8000,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: ObjectId("635cc2bf0ac0ff7a169fad23"),

firstName: 'Kapil',

lastName: 'D',

email: 'kapil.d@abc.com',

salary: 4500,

skills: [ 'Accounting', 'Tax' ],

department: { name: 'Finance' }

},

{

\_id: 1,

firstName: 'John',

lastName: 'King',

email: 'john.king@abc.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' }

},

{

\_id: ObjectId("635cc2380ac0ff7a169fad1a"),

firstName: 'John',

lastName: 'King',

email: 'john.king@abc.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' }

},

{

\_id: ObjectId("635cc2bf0ac0ff7a169fad1f"),

firstName: 'John',

lastName: 'King',

email: 'john.king@abc.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' }

},

{

\_id: 3,

firstName: 'James',

lastName: 'Bond',

email: 'jamesb@abc.com',

salary: 7500,

skills: [ 'Sales', 'Marketing' ],

department: { name: 'Marketing' }

},

{

\_id: ObjectId("635cc2bf0ac0ff7a169fad21"),

firstName: 'James',

lastName: 'Bond',

email: 'jamesb@abc.com',

salary: 7500,

skills: [ 'Sales', 'Marketing' ],

department: { name: 'Marketing' }

}

]

mydatabase> db.employees.updateOne({\_id:1},{$set:{firstname:"jamil"}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

mydatabase> db.employees.updateOne({\_id:1},{$set:{firstName:"jamil"}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

mydatabase> db.employees.find({\_id:1})

[

{

\_id: 1,

firstName: 'jamil',

lastName: 'King',

email: 'john.king@abc.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' },

firstname: 'jamil'

}

]

mydatabase> db.employees.updateOne({firstName:"jamil"},{$set:{email:"jamilking345@gmail.com"}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

mydatabase> db.employees.find({firstName:"jamil"})

[

{

\_id: 1,

firstName: 'jamil',

lastName: 'King',

email: 'jamilking345@gmail.com',

salary: 5000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' },

firstname: 'jamil'

}

]

mydatabase> db.employees.updateOne({firstName:"jamil"},{$set:{lastName:"khan",email:"jamilking345@gmail.com",salary:89000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

mydatabase> db.employees.find({firstName:"jamil"})

[

{

\_id: 1,

firstName: 'jamil',

lastName: 'khan',

email: 'jamilking345@gmail.com',

salary: 89000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' },

firstname: 'jamil'

}

]

mydatabase> db.employees.updateOne({salary},{$inc:{salary:5000}})

ReferenceError: salary is not defined

mydatabase> db.employees.updateOne({salary:{$gte:5000}},{$inc:{salary:5000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

mydatabase> db.employees.find({salary:{$gte:10000}})

[

{

\_id: 1,

firstName: 'jamil',

lastName: 'khan',

email: 'jamilking345@gmail.com',

salary: 94000,

skills: [ 'Angular', 'React', 'MongoDB' ],

department: { name: 'IT' },

firstname: 'jamil'

},

{

\_id: ObjectId("635cbabc1bc43a2866caf655"),

firstName: 'Waqas',

lastName: 'Ahmad',

email: 'waqasahmat234@gmail.com',

salary: 750000

},

{

\_id: ObjectId("635cbaf81bc43a2866caf656"),

firstName: 'Zubair Ali',

lastName: 'Hassan',

email: 'ZubairAli675@gmail.com',

salary: 85000

},

{

\_id: ObjectId("635cbb8d1bc43a2866caf657"),

firstName: 'Hassan Ali',

lastName: 'Quershi',

email: 'HassanAli875@gmail.com',

salary: 80000

},

{

\_id: ObjectId("635cbbd21bc43a2866caf658"),

firstName: 'Ajman ullah ',

lastName: 'Khan',

email: 'ajman41288@gmail.com',

salary: 87000

},

{

\_id: ObjectId("635cbbf91bc43a2866caf659"),

firstName: 'Zohra ',

lastName: 'naseem',

email: 'Zohranaseem@gmail.com',

salary: 87000

}

]

mydatabase>