Microsoft Windows [Version 10.0.19045.4291]

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C:\Users\computer>mongosh

Current Mongosh Log ID: 663cff5c21d943157346b798

Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.5

Using MongoDB: 7.0.9

Using Mongosh: 2.2.5

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

   The server generated these startup warnings when booting

   2024-05-09T19:47:58.398+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

------

test> use Student

switched to db Student

Student> db.createCollection("StudentDetails")

{ ok: 1 }

******A**********

Student> db.StudentDetails.insertOne({rollno:101,name:"Anna",age:20,course:"MCA"})

{

  acknowledged: true,

  insertedId: ObjectId('663d02c921d943157346b79a')

}

Student> db.StudentDetails.insertOne({rollno:102,name:"Catherine",age:21,course:"MTECH"})

{

  acknowledged: true,

```
  insertedId: ObjectId('663d02e321d943157346b79b')

}

Student> db.StudentDetails.insertOne({rollno:103,name:"Denna",age:22,course:"BTECH"})

{

  acknowledged: true,

  insertedId: ObjectId('663d02f921d943157346b79c')

}

Student> db.StudentDetails.insertOne({rollno:104,name:"Sam",age:25,course:"MCA"})

{

  acknowledged: true,

  insertedId: ObjectId('663d031321d943157346b79d')

}

Student> db.StudentDetails.insertOne({rollno:105,name:"Karthik",age:24,course:"MCA"})

{

  acknowledged: true,

  insertedId: ObjectId('663d032321d943157346b79e')

}

Student> db.StudentDetails.insertOne({rollno:106,name:"Aravind",age:20,course:"MCA"})

{

  acknowledged: true,

  insertedId: ObjectId('663d033321d943157346b79f')

}
*******B**********
Student> db.StudentDetails.find()

[

 {

   _id: ObjectId('663d02c921d943157346b79a'),

   rollno: 101,

   name: 'Anna',

   age: 20,

   course: 'MCA'
```

```
  },
  {
    _id: ObjectId('663d02e321d943157346b79b'),
    rollno: 102,
    name: 'Catherine',
    age: 21,
    course: 'MTECH'
  },
  {
    _id: ObjectId('663d02f921d943157346b79c'),
    rollno: 103,
    name: 'Denna',
    age: 22,
    course: 'BTECH'
  },
  {
    _id: ObjectId('663d031321d943157346b79d'),
    rollno: 104,
    name: 'Sam',
    age: 25,
    course: 'MCA'
  },
  {
    _id: ObjectId('663d032321d943157346b79e'),
    rollno: 105,
    name: 'Karthik',
    age: 24,
    course: 'MCA'
  },
  {
    _id: ObjectId('663d033321d943157346b79f'),
```

```
    rollno: 106,

    name: 'Aravind',

    age: 20,

    course: 'MCA'

  }

]
*****C********

Student> db.StudentDetails.find({"name":{$regex:/^A/}})

[

  {

    _id: ObjectId('663d02c921d943157346b79a'),

    rollno: 101,

    name: 'Anna',

    age: 20,

    course: 'MCA'

  },

  {

    _id: ObjectId('663d033321d943157346b79f'),

    rollno: 106,

    name: 'Aravind',

    age: 20,

    course: 'MCA'

  }

]
********D**********

Student> db.StudentDetails.findOneAndUpdate({"rollno":106},{$set:{course:"MTECH"}})

{

  _id: ObjectId('663d033321d943157346b79f'),

  rollno: 106,

  name: 'Aravind',

  age: 20,
```

```
    course: 'MTECH'
}
********E********
Student> db.StudentDetails.updateMany({},{$set:{"DOJ":"09-05-2024"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 6,
  modifiedCount: 6,
  upsertedCount: 0
}
Student> db.StudentDetails.find()
[
  {
    _id: ObjectId('663d02c921d943157346b79a'),
    rollno: 101,
    name: 'Anna',
    age: 20,
    course: 'MCA',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d02e321d943157346b79b'),
    rollno: 102,
    name: 'Catherine',
    age: 21,
    course: 'MTECH',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d02f921d943157346b79c'),
```

```
    rollno: 103,

    name: 'Denna',

    age: 22,

    course: 'BTECH',

    DOJ: '09-05-2024'

  },

  {

    _id: ObjectId('663d031321d943157346b79d'),

    rollno: 104,

    name: 'Sam',

    age: 25,

    course: 'MCA',

    DOJ: '09-05-2024'

  },

  {

    _id: ObjectId('663d032321d943157346b79e'),

    rollno: 105,

    name: 'Karthik',

    age: 24,

    course: 'MCA',

    DOJ: '09-05-2024'

  },

  {

    _id: ObjectId('663d033321d943157346b79f'),

    rollno: 106,

    name: 'Aravind',

    age: 20,

    course: 'MTECH',

    DOJ: '09-05-2024'

  }

]
```

*********F***********

Student>
db.StudentDetails.aggregate({$match:{course:"MCA"}},{$group:{_id:"$course",totalnumber:{$sum:1}}})

[{ _id: 'MCA', totalnumber: 3 }]

***********G***********

Student> db.StudentDetails.deleteOne({rollno:104})

{ acknowledged: true, deletedCount: 1 }

Student> db.StudentDetails.find()

```
[
  {
    _id: ObjectId('663d02c921d943157346b79a'),
    rollno: 101,
    name: 'Anna',
    age: 20,
    course: 'MCA',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d02e321d943157346b79b'),
    rollno: 102,
    name: 'Catherine',
    age: 21,
    course: 'MTECH',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d02f921d943157346b79c'),
    rollno: 103,
    name: 'Denna',
    age: 22,
    course: 'BTECH',
```

```
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d032321d943157346b79e'),
    rollno: 105,
    name: 'Karthik',
    age: 24,
    course: 'MCA',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d033321d943157346b79f'),
    rollno: 106,
    name: 'Aravind',
    age: 20,
    course: 'MTECH',
    DOJ: '09-05-2024'
  }
]
```

***********G***********

```
admin> db.createUser({user:"Mohanan",pwd:"m123",roles:[{role:"readWrite",db:"Student"}]})
{ ok: 1 }
admin> use Mohanan
switched to db Mohanan
Mohanan> show dbs
Employee   72.00 KiB
Student    72.00 KiB
admin     148.00 KiB
config    108.00 KiB
local      40.00 KiB
Employee> use Student
```

switched to db Student

Student> db.StudentDetails.find()

```
[
  {
    _id: ObjectId('663d02c921d943157346b79a'),
    rollno: 101,
    name: 'Anna',
    age: 20,
    course: 'MCA',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d02e321d943157346b79b'),
    rollno: 102,
    name: 'Catherine',
    age: 21,
    course: 'MTECH',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d02f921d943157346b79c'),
    rollno: 103,
    name: 'Denna',
    age: 22,
    course: 'BTECH',
    DOJ: '09-05-2024'
  },
  {
    _id: ObjectId('663d032321d943157346b79e'),
    rollno: 105,
    name: 'Karthik',
```

```
    age: 24,

    course: 'MCA',

    DOJ: '09-05-2024'

  },

  {

    _id: ObjectId('663d033321d943157346b79f'),

    rollno: 106,

    name: 'Aravind',

    age: 20,

    course: 'MTECH',

    DOJ: '09-05-2024'

  }

]
```