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**Roll NO.:** s560

### **Assignment No.: 1**

**it29@it29-OptiPlex-380:~\$ mongo**

MongoDB shell version v4.4.29

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

Implicit session: session { "id" : UUID("61eaaf14-ae0a-472c-b778-c08867446456") }

MongoDB server version: 4.4.29

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The server generated these startup warnings when booting:

2025-07-29T15:45:41.472+05:30: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See <http://dochub.mongodb.org/core/prodnotes-filesystem>

2025-07-29T15:45:45.673+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

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**> use teit**

switched to db teit

**> show tables**

myCollection

student

**> db.student.insertMany([**

**... {name:"Saya",age:20},**

**... {name:"Samu",age:21}])**

**{**

**"acknowledged" : true,**

**"insertedIds" : [**

**ObjectId("6888a56e2e918646673c2a6b"),**

**ObjectId("6888a56e2e918646673c2a6c")**

**]**

**}**

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

**{**

**"\_id" : ObjectId("6888a44d017d760a57754a16"),**

**"name" : "Saya",**

**"age" : 20**

**}**

**{**

**"\_id" : ObjectId("6888a4d0017d760a57754a17"),**

**"name" : "Saya",**

**"age" : 20**

**}**

**{**

**"\_id" : ObjectId("6888a56e2e918646673c2a6b"),**

**"name" : "Saya",**

**"age" : 20**

**}**

**{**

**"\_id" : ObjectId("6888a56e2e918646673c2a6c"),**

```
"name" : "Samu",
"age" : 21
}
> db.student.drop()
True

> db.createCollection("student")
{ "ok" : 1 }

>db.student.insertMany([{"stud_id":101,Name:"Saya",Age:20,Year:"TYIT"}, {"stud_id":102,Name:"Samu",Age:21,Year:"SYIT"}, {"stud_id":103,Name:"Ujawala",Age:20,Year:"TYIT"}, {"stud_id":104,Name:"Samiksha",Age:21,Year:"TYCO"}]);
{
    "acknowledged" : true,
    "insertedIds" : [
        ObjectId("6888a9b82e918646673c2a6d"),
        ObjectId("6888a9b82e918646673c2a6e"),
        ObjectId("6888a9b82e918646673c2a6f"),
        ObjectId("6888a9b82e918646673c2a70")
    ]
}

> db.student.find().pretty()
{
    "_id" : ObjectId("6888a9b82e918646673c2a6d"),
    "stud_id" : 101,
    "Name" : "Saya",
    "Age" : 20,
    "Year" : "TYIT"
}
{
    "_id" : ObjectId("6888a9b82e918646673c2a6e"),
    "stud_id" : 102,
    "Name" : "Samu",
    "Age" : 21,
    "Year" : "SYIT"
}
{
    "_id" : ObjectId("6888a9b82e918646673c2a6f"),
    "stud_id" : 103,
    "Name" : "Ujawala",
    "Age" : 20,
    "Year" : "TYIT"
}
{
    "_id" : ObjectId("6888a9b82e918646673c2a70"),
    "stud_id" : 104,
    "Name" : "Samiksha",
    "Age" : 21,
    "Year" : "TYCO"
}
```

```

> db.student.find({Age:{$gt:18}});
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Saya", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a70"), "stud_id" : 104, "Name" : "Samiksha", "Age" : 21,
"Year" : "TYCO" }
> db.student.find({Age:{$gt:20}});
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a70"), "stud_id" : 104, "Name" : "Samiksha", "Age" : 21,
"Year" : "TYCO" }

> db.student.insertOne({stud_id:105,Name:"Sakshi",Age:23,Year:"BEEL"})
{
    "acknowledged" : true,
    "insertedId" : ObjectId("6888ab682e918646673c2a71")
}

> db.student.find()
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Saya", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a70"), "stud_id" : 104, "Name" : "Samiksha", "Age" : 21,
"Year" : "TYCO" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }

> db.student.updateOne({stud_id:101},{$inc:{Age:1}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

> db.student.find()
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Saya", "Age" : 21,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a70"), "stud_id" : 104, "Name" : "Samiksha", "Age" : 21,
"Year" : "TYCO" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }

> db.student.updateOne({stud_id:101},{$set:{Name:"Gita"}},{$inc:{Age:1}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

```

```

> db.student.find()
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Gita", "Age" : 21, "Year" :
"TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a70"), "stud_id" : 104, "Name" : "Samiksha", "Age" : 21,
"Year" : "TYCO" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }

> db.student.updateOne( {stud_id:106}, { $set:{ Name:"Amit",Age:25 }},{upsert:true});
{
    "acknowledged" : true,
    "matchedCount" : 0,
    "modifiedCount" : 0,
    "upsertedId" : ObjectId("6888b2b233d53961bfd5405d")
}

> db.student.find()
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Gita", "Age" : 21, "Year" :
"TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }
{ "_id" : ObjectId("6888b2b233d53961bfd5405d"), "stud_id" : 106, "Age" : 25, "Name" : "Amit" }
>

> db.student.replaceOne( {stud_id:106}, { stud_id:104, Name:"Ananya", Age:21, Year:
"BEIT" } )
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

> db.student.find()
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Gita", "Age" : 21, "Year" :
"TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }
{ "_id" : ObjectId("6888b2b233d53961bfd5405d"), "stud_id" : 104, "Name" : "Ananya", "Age" : 21,
"Year" : "BEIT" }

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```

> db.student.findOne({stud_id:103})
{
  "_id" : ObjectId("6888a9b82e918646673c2a6f"),
  "stud_id" : 103,
  "Name" : "Ujawala",
  "Age" : 20,
  "Year" : "TYIT"
}

> db.student.find({Age:{$lt:22}})
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Gita", "Age" : 21, "Year" :
"TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888b2b233d53961bfd5405d"), "stud_id" : 104, "Name" : "Ananya", "Age" : 21,
"Year" : "BEIT" }

> db.student.find({$or :[{Age:{$lt:21}}, {Year:"TYIT"}] })
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Gita", "Age" : 21, "Year" :
"TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }

> db.student.find({Age:{$not:{$eq:20}}})
{ "_id" : ObjectId("6888a9b82e918646673c2a6d"), "stud_id" : 101, "Name" : "Gita", "Age" : 21, "Year" :
"TYIT" }
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }
{ "_id" : ObjectId("6888b2b233d53961bfd5405d"), "stud_id" : 104, "Name" : "Ananya", "Age" : 21,
"Year" : "BEIT" }

> db.student.find({Age:{$not:{$eq:21}}})
{ "_id" : ObjectId("6888a9b82e918646673c2a6f"), "stud_id" : 103, "Name" : "Ujawala", "Age" : 20,
"Year" : "TYIT" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }

> db.student.find({Name:/^S/})
{ "_id" : ObjectId("6888a9b82e918646673c2a6e"), "stud_id" : 102, "Name" : "Samu", "Age" : 21,
"Year" : "SYIT" }
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }

> db.student.find({$where:"this.Age >21"})
{ "_id" : ObjectId("6888ab682e918646673c2a71"), "stud_id" : 105, "Name" : "Sakshi", "Age" : 23,
"Year" : "BEEL" }

```