```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongosh
Current Mongosh Log ID: 67cff6c5df6da18349c00e7d
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTime
outMS=2000&appName=mongosh+2.2.1
Using MongoDB:          7.0.7
Using Mongosh:          2.2.1
mongosh 2.4.2 is available for download: https://www.mongodb.com/try/download/shell

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

------
   The server generated these startup warnings when booting
   2025-03-11T14:07:45.701+05:30: Using the XFS filesystem is strongly recommended with the
WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
   2025-03-11T14:07:48.615+05:30: Access control is not enabled for the database. Read and w
rite access to data and configuration is unrestricted
------

test> use myDB;
switched to db myDB
myDB> db;
myDB
myDB> show dbs;
admin    40.00 KiB
config   60.00 KiB
local   136.00 KiB
test     40.00 KiB
myDB> 
```

```
test> db.createCollection("Student");
{ ok: 1 }
test> db.Student.insert({_id:1,StudName:"MichelleJacintha",Grade:"VII",Hobbies:"InternetSurfing"});
{ acknowledged: true, insertedIds: { '0': 1 } }
test> db.Student.insert({_id:3,StudName:"AryanDavid",Grade:"VII"},{$set:{Hobbies:"Skating"}},{upsert
:true});
{ acknowledged: true, insertedIds: { '0': 3 } }
test> db.Student.find({StudName:"AryanDavid"});
[ { _id: 3, StudName: 'AryanDavid', Grade: 'VII' } ]
test> db.Student.find({},{StudName:1,Grade:1,_id:0});
[
  { StudName: 'MichelleJacintha', Grade: 'VII' },
  { StudName: 'AryanDavid', Grade: 'VII' }
]
test> db.Student.find({Grade:{$eq:'VII'}}).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 3, StudName: 'AryanDavid', Grade: 'VII' }
]
test> db.Student.find({Hobbies:{$in:['Chess','Skating']}}).pretty();

test> db.Student.find({Hobbies:{$in:['Chess','Skating']}}).pretty();

test> db.Student({StudName:/^M/}).pretty();
TypeError: db.Student is not a function
test> db.Student.find({StudName:/^M/}).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
test> db.Student.find({StudName:/e/}).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
test> db.Student.count();
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
2
```

```
test> db.Student.find().sort({StudName:-1}).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 3, StudName: 'AryanDavid', Grade: 'VII' }
]
```

```
There are stopped jobs.
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongoexport --host localhost --db myDB --collect
ion Student --type=csv --out ~/Downloads/airline.csv --fields "Year","Quarter"
2025-03-11T14:45:01.231+0530    connected to: mongodb://localhost/
2025-03-11T14:45:01.233+0530    exported 1 record
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongoimport --db Student --collection airlines -
-type=csv --headerline --file ~/Downloads/airline.csv
2025-03-11T14:45:15.792+0530    connected to: mongodb://localhost/
2025-03-11T14:45:16.081+0530    1 document(s) imported successfully. 0 document(s) failed to import.
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ 
```

```
Student> db.airlines;
Student.airlines
Student> db.airlines.find();
[
  { _id: ObjectId('67cfff236c7e50d9cead9ada'), Year: '', Quarter: '' },
  { _id: ObjectId('67cfffa80245318316b28b74'), Year: 2000, Quarter: 3 },
  { _id: ObjectId('67cfffa80245318316b28b75'), Year: 1999, Quarter: 1 }
]
Student> exit
```

```
myDB> db.Students.update({_id:4},{$set:{Location:"Network"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
myDB> db.Students.update({_id:4},{$unset:{Location:"Network"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
myDB> db.Student.find({_id:1},{StudName:1,Grade:1,_id:0});
[ { StudName: 'MichelleJacintha', Grade: 'VII' } ]
myDB> db.Student.find({Grade:{$ne:&#39;VII&#39;}}).pretty();
Uncaught:
SyntaxError: Unexpected token (1:28)

> 1 | db.Student.find({Grade:{$ne:&#39;VII&#39;}}).pretty();
    |                             ^
  2 |

myDB> db.Student.find({Grade:{$ne:"VII"}}).pretty();

myDB> db.Student.find({StudName:/s$/}).pretty();

myDB> db.Students.update({_id:3},{$set:{Location:null}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

```
myDB> db.Student.countDocuments()
2
myDB> db.Student.countDocuments({Grade:"VII"})
2
```

```
myDB> db.Student.find({Grade:"VII"}).limit(3).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' }
]
myDB>
(To exit, press Ctrl+C again or Ctrl+D or type .exit)
myDB> db.Student.find().sort({StudName:1}).pretty();
[
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' },
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
```

```
myDB> db.Student.find().skip(1).pretty()
[
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' }
]
```

```
myDB> db.createCollection("food");
{ ok: 1 }
myDB> db.food.insert({_id:1,fruits:['grapes','mango','apple']})
{ acknowledged: true, insertedIds: { '0': 1 } }
myDB> db.food.insert({_id:2,fruits:['grapes','mango','cherry']})
{ acknowledged: true, insertedIds: { '0': 2 } }
myDB> db.food.insert({_id:3,fruits:['banana','mango']})
{ acknowledged: true, insertedIds: { '0': 3 } }
myDB> db.food.find({fruits:['grapes','mango','apple']}).pretty();
[ { _id: 1, fruits: [ 'grapes', 'mango', 'apple' ] } ]
myDB> db.food.find({'fruits.1':'grapes'})

myDB> db.food.find ( {"fruits": {$size:2}} )
Uncaught:
SyntaxError: Unexpected character '"'. (1:16)

> 1 |  db.food.find ( {"fruits": {$size:2}} )
    |                 ^
  2 |

myDB> db.food.find({"fruits":{$size:2}})
[ { _id: 3, fruits: [ 'banana', 'mango' ] } ]
myDB> db.food.find({'fruits.0':'grapes'})
[
   { _id: 1, fruits: [ 'grapes', 'mango', 'apple' ] },
   { _id: 2, fruits: [ 'grapes', 'mango', 'cherry' ] }
]
myDB> db.food.find({_id:1},{"fruits":{$slice:2}})
Uncaught:
SyntaxError: Unexpected character '"'. (1:22)

> 1 |  db.food.find({_id:1},{"fruits":{$slice:2}})
    |                       ^
  2 |

myDB> db.food.find({_id:1},{"fruits":{$slice:2}})
[ { _id: 1, fruits: [ 'grapes', 'mango' ] } ]
myDB> db.food.find({fruits:{$all:["mango","grapes"]}})
[
   { _id: 1, fruits: [ 'grapes', 'mango', 'apple' ] },
   { _id: 2, fruits: [ 'grapes', 'mango', 'cherry' ] }
]
myDB> db.food.update({_id:3},{$set:{'fruits.1':'apple'}})
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
```

```
myDB> db.food.update({_id:3},{$set:{'fruits.1':'apple'}})
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
myDB> db.food.update({_id:2},{$push:{price:{grapes:80,mango:200,cherry:100}}})
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
```

```
}
myDB> db.createCollection("Customers");
{ ok: 1 }
myDB> db.Customers.insertMany([
...      { "custID": 1, "AcctBal": 5000, "AcctType": "Savings" },
...      { "custID": 2, "AcctBal": 3000, "AcctType": "Checking" },
...      { "custID": 1, "AcctBal": 2000, "AcctType": "Checking" },
...      { "custID": 3, "AcctBal": 7000, "AcctType": "Savings" },
...      { "custID": 2, "AcctBal": 1000, "AcctType": "Savings" },
...      { "custID": 3, "AcctBal": 4000, "AcctType": "Checking" }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('67d006e16d53336bcac00e7e'),
    '1': ObjectId('67d006e16d53336bcac00e7f'),
    '2': ObjectId('67d006e16d53336bcac00e80'),
    '3': ObjectId('67d006e16d53336bcac00e81'),
    '4': ObjectId('67d006e16d53336bcac00e82'),
    '5': ObjectId('67d006e16d53336bcac00e83')
  }
}
myDB> db.Customers.aggregate ( {$group : { _id : "$custID",TotAccBal : {$sum:"$AccBal"} } } );
Uncaught:
SyntaxError: Unexpected character '"'. (1:43)

> 1 | db.Customers.aggregate ( {$group : { _id : "$custID",TotAccBal : {$sum:"$AccBal"} } } );
    |                                            ^
  2 |

myDB>

myDB> db.Customers.aggregate({$group:{_id:"$custID",TotAccBal:{$sum:"$AccBal"}}});
[
  { _id: 2, TotAccBal: 0 },
  { _id: 3, TotAccBal: 0 },
  { _id: 1, TotAccBal: 0 }
]
myDB> db.Customers.aggregate({$match:{AcctType:"S"}},{$group:{_id:"$custID",TotAccBal:{$sum:"$AccBal"}
}});

myDB> db.Customers.aggregate({$match:{AcctType:"S"}},{$group:{_id:"$custID",TotAccBal:{$sum:"$AccBal"}
}});

myDB> db.Customers.aggregate({$match:{AcctType:"Savings"}},{$group:{_id:"$custID",TotAccBal:{$sum:"$Ac
cBal"}}});
[
  { _id: 3, TotAccBal: 0 },
  { _id: 2, TotAccBal: 0 },
  { _id: 1, TotAccBal: 0 }
]
```