

```

MongoDB shell version: 5.0.13
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
implicit session: session { "id" : UUID("3066a75e-76fe-4bee-a461-618a6c1858b3") }
MongoDB server version: 5.0.13
=====
Warning: the "mongo" shell has been superseded by "mongosh",
which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in
an upcoming release.
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=====
--
The server generated these startup warnings when booting:
  2022-10-19T16:49:22.553+05:30: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
  2022-10-19T16:49:23.692+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
--
--
  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 dbms
switched to db dbms
db.book.insert({title:"Python",author:"John Zelle",publisher:"tmh",price:700,qty:7})
Uncaught exception: SyntaxError: expected expression, got '}' :
(shell):1:81
db.book.insert({title:"Python",author:"John Zelle",publisher:"tmh",price:700,qty:10})
riteResult({ "inserted" : 1 })
db.book.insert({title:"DBMS",author:"Sudarshan Korth",publisher:"Technical;",price:700,qty:7})
riteResult({ "inserted" : 1 })
db.book.insert({title:"C++",author:"Yashwant Kanetkar",publisher:"Technical;",price:500,qty:8})
riteResult({ "inserted" : 1 })
db.book.insert({title:"Artificial Intelligence",author:"Yash Mathur",publisher:"Technmax;",price:300,qty:15})
riteResult({ "inserted" : 1 })
db.book.insert({title:"Operating system",author:"Willey",publisher:"tmh",price:300,qty:15})
riteResult({ "inserted" : 1 })
db.book.insert({title:"abc",author:"Yashwant Kanetkar",publisher:"techmax",price:1200,qty:5})
riteResult({ "inserted" : 1 })
db.book.insert({title:"Computer Fundamentals",author:"P K Sinha",publisher:"willey",price:900,qty:5})
riteResult({ "inserted" : 1 })
db.book.insert({title:"Operating system",author:"P K Sinha",publisher:"willey",price:1200,qty:12})
riteResult({ "inserted" : 1 })
db.book.insert({title:"Computer networks",author:"D K More",publisher:"technical",price:1200,qty:20})
riteResult({ "inserted" : 1 })
db.book.insert({title:"Web Technology",author:"Yashwant Kanetkar",publisher:"tmh",price:1200,qty:50})
riteResult({ "inserted" : 1 })

db.book.find()
  "_id" : ObjectId("634fe2ed001a7800b7cbf401"), "title" : "Python", "author" : "John Zelle", "publisher" : "tmh", "price" : 700, "qty" : 10 }
  "_id" : ObjectId("634fe4a1001a7800b7cbf402"), "title" : "DBMS", "author" : "Sudarshan Korth", "publisher" : "Technical;", "price" : 700, "qty" : 7 }
  "_id" : ObjectId("634fe4ce001a7800b7cbf403"), "title" : "C++", "author" : "Yashwant Kanetkar", "publisher" : "Technical;", "price" : 500, "qty" : 8 }
  "_id" : ObjectId("634fe520001a7800b7cbf404"), "title" : "Artificial Intelligence", "author" : "Yash Mathur", "publisher" : "Technmax;", "price" : 300, "qty" : 15 }
  "_id" : ObjectId("634fe74f001a7800b7cbf405"), "title" : "Operating system", "author" : "Willey", "publisher" : "tmh", "price" : 300, "qty" : 15 }

```

```
db.book.find()
- id : ObjectId("634fe2ed001a7800b7cbf401"), "title": "Python", "author": "John Zelle", "publisher": "tmh", "price": 700, "qty": 10 }
- id : ObjectId("634fe4a1001a7800b7cbf402"), "title": "DBMS", "author": "Sudarshan Korth", "publisher": "Technical", "price": 700, "qty": 7 }
- id : ObjectId("634fe4ce001a7800b7cbf403"), "title": "C++", "author": "Yashwant Kanetkar", "publisher": "Technical", "price": 500, "qty": 8 }
- id : ObjectId("634fe520001a7800b7cbf404"), "title": "Artificial Intelligence", "author": "Yash Mathur", "publisher": "Technax", "price": 300, "qty": 15 }
- id : ObjectId("634fe74f001a7800b7cbf405"), "title": "Operating system", "author": "Willey", "publisher": "tmh", "price": 300, "qty": 15 }
- id : ObjectId("634fe7b2001a7800b7cbf406"), "title": "abc", "author": "Yashwant Kanetkar", "publisher": "technax", "price": 1200, "qty": 5 }
- id : ObjectId("634fe831001a7800b7cbf407"), "title": "Computer Fundamentals", "author": "P K Sinha", "publisher": "Willey", "price": 900, "qty": 5 }
- id : ObjectId("634fe856001a7800b7cbf408"), "title": "operating system", "author": "P K Sinha", "publisher": "Willey", "price": 1200, "qty": 12 }
- id : ObjectId("634fe87c001a7800b7cbf409"), "title": "Computer networks", "author": "D K More", "publisher": "technical", "price": 1200, "qty": 20 }
- id : ObjectId("634fe8d001a7800b7cbf40a"), "title": "Web Technology", "author": "Yashwant Kanetkar", "publisher": "tmh", "price": 1200, "qty": 50 }

db.book.find({publisher:"tmh"})
- id : ObjectId("634fe2ed001a7800b7cbf401"), "title": "Python", "author": "John Zelle", "publisher": "tmh", "price": 700, "qty": 10 }
- id : ObjectId("634fe74f001a7800b7cbf405"), "title": "Operating system", "author": "Willey", "publisher": "tmh", "price": 300, "qty": 15 }
- id : ObjectId("634fe8d001a7800b7cbf40a"), "title": "Web Technology", "author": "Yashwant Kanetkar", "publisher": "tmh", "price": 1200, "qty": 50 }

db.book.find({publisher:{$ne:"technax"}}).sort({price:1})
- id : ObjectId("634fe520001a7800b7cbf404"), "title": "Artificial Intelligence", "author": "Yash Mathur", "publisher": "Technax", "price": 300, "qty": 15 }
- id : ObjectId("634fe74f001a7800b7cbf405"), "title": "Operating system", "author": "Willey", "publisher": "tmh", "price": 300, "qty": 15 }
- id : ObjectId("634fe4ce001a7800b7cbf403"), "title": "C++", "author": "Yashwant Kanetkar", "publisher": "Technical", "price": 500, "qty": 8 }
- id : ObjectId("634fe2ed001a7800b7cbf401"), "title": "Python", "author": "John zelle", "publisher": "tmh", "price": 700, "qty": 10 }
- id : ObjectId("634fe4a1001a7800b7cbf402"), "title": "DBMS", "author": "Sudarshan Korth", "publisher": "Technical", "price": 700, "qty": 7 }
- id : ObjectId("634fe831001a7800b7cbf407"), "title": "Computer Fundamentals", "author": "P K Sinha", "publisher": "Willey", "price": 900, "qty": 5 }
- id : ObjectId("634fe856001a7800b7cbf408"), "title": "operating system", "author": "P K Sinha", "publisher": "Willey", "price": 1200, "qty": 12 }
- id : ObjectId("634fe87c001a7800b7cbf409"), "title": "Computer networks", "author": "D K More", "publisher": "technical", "price": 1200, "qty": 20 }
- id : ObjectId("634fe8d001a7800b7cbf40a"), "title": "Web Technology", "author": "Yashwant Kanetkar", "publisher": "tmh", "price": 1200, "qty": 50 }

db.book.find({$or:[{author:"P K Sinha"},{author:"Yashwant Kanetkar"}]})
- id : ObjectId("634fe4ce001a7800b7cbf403"), "title": "C++", "author": "Yashwant Kanetkar", "publisher": "Technical", "price": 500, "qty": 8 }
```

```

>
> db.book.find({$or:[{author:"P K Sinha"},{author:"Yashwant Kanetkar"}]})
{ "_id" : ObjectId("634fe4ce001a7800b7cbf403"), "title" : "C++", "author" : "Yashwant Kanetkar", "publisher" : "Technical", "price" : 500, "qty" : 8 }
{ "_id" : ObjectId("634fe7b2001a7800b7cbf406"), "title" : "abc", "author" : "Yashwant Kanetkar", "publisher" : "technmax", "price" : 1200, "qty" : 5 }
{ "_id" : ObjectId("634fe831001a7800b7cbf407"), "title" : "Computer Fundamentals", "author" : "P K Sinha", "publisher" : "Willey", "price" : 900, "qty" : 5 }
{ "_id" : ObjectId("634fe850001a7800b7cbf408"), "title" : "operating system", "author" : "P K Sinha", "publisher" : "Willey", "price" : 1200, "qty" : 12 }
{ "_id" : ObjectId("634fe8d8001a7800b7cbf40a"), "title" : "Web Technology", "author" : "Yashwant Kanetkar", "publisher" : "tmh", "price" : 1200, "qty" : 50 }
>
>
>
> db.book.count({author:"P K Sinha"})
2
>
>
> db.book.find({},{"title":1,"price":1})
{ "_id" : ObjectId("634fe2ed001a7800b7cbf401"), "title" : "Python", "price" : 700 }
{ "_id" : ObjectId("634fe4a1001a7800b7cbf402"), "title" : "DBMS", "price" : 700 }
{ "_id" : ObjectId("634fe4ce001a7800b7cbf403"), "title" : "C++", "price" : 500 }
{ "_id" : ObjectId("634fe520001a7800b7cbf404"), "title" : "Artificial Intelligence", "price" : 300 }
{ "_id" : ObjectId("634fe74f001a7800b7cbf405"), "title" : "Operating system", "price" : 300 }
{ "_id" : ObjectId("634fe7b2001a7800b7cbf406"), "title" : "abc", "price" : 1200 }
{ "_id" : ObjectId("634fe831001a7800b7cbf407"), "title" : "Computer Fundamentals", "price" : 900 }
{ "_id" : ObjectId("634fe850001a7800b7cbf408"), "title" : "operating system", "price" : 1200 }
{ "_id" : ObjectId("634fe87c001a7800b7cbf409"), "title" : "Computer networks", "price" : 1200 }
{ "_id" : ObjectId("634fe8d8001a7800b7cbf40a"), "title" : "Web Technology", "price" : 1200 }
>
>
>
> db.book.find({publisher:"Willey",price:{$lt:1000}})
> db.book.insert({title:"Design thinking",author:"D K More",publisher:"Willey",price:400,qty:20})
WriteResult({ "nInserted" : 1 })
> db.book.find({publisher:"Willey",price:{$lt:1000}})
{ "_id" : ObjectId("634feb19001a7800b7cbf40b"), "title" : "Design thinking", "author" : "D K More", "publisher" : "Willey", "price" : 400, "qty" : 20 }
>
>
> db.book.update({publisher:"tmh"},{$inc:{price:-50}},{multi:true})
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 0,
  "nModified" : 0,
  "writeError" : {
    "code" : 9,
    "errmsg" : "multi update is not supported for replacement-style update"
  }
})
> db.book.update({publisher:"tmh"},{$inc:{price:-50}},{multi:true})
WriteResult({ "nMatched" : 3, "nUpserted" : 0, "nModified" : 3 })
>
>
> db.book.find({publisher:"tmh"}).pretty()
{
  "_id" : ObjectId("634fe2ed001a7800b7cbf401"),
  "title" : "Python",

```

```

})
> db.book.update({publisher:"tmh"},{$inc:{price:-50}},{multi:true})
WriteResult({ "nMatched" : 3, "nUpserted" : 0, "nModified" : 3 })
>
>
> db.book.find({publisher:"tmh"}).pretty()
{
  "_id" : ObjectId("634fe2ed001a7800b7cbf401"),
  "title" : "Python",
  "author" : "John Zelle",
  "publisher" : "tmh",
  "price" : 650,
  "qty" : 10
}
{
  "_id" : ObjectId("634fe74f001a7800b7cbf405"),
  "title" : "Operating system",
  "author" : "Willey",
  "publisher" : "tmh",
  "price" : 250,
  "qty" : 15
}
{
  "_id" : ObjectId("634fe8d8001a7800b7cbf40a"),
  "title" : "Web Technology",
  "author" : "Yashwant Kanetkar",
  "publisher" : "tmh",
  "price" : 1150,
  "qty" : 50
}
> db.book.find().skip(2).limit(4).pretty()
{
  "_id" : ObjectId("634fe4ce001a7800b7cbf403"),
  "title" : "C++",
  "author" : "Yashwant Kanetkar",
  "publisher" : "Technical;",
  "price" : 500,
  "qty" : 8
}
{
  "_id" : ObjectId("634fe520001a7800b7cbf404"),
  "title" : "Artificial Intelligence",
  "author" : "Yash Mathur",
  "publisher" : "Technax;",
  "price" : 300,
  "qty" : 15
}
{
  "_id" : ObjectId("634fe74f001a7800b7cbf405"),
  "title" : "Operating system",
  "author" : "Willey",
  "publisher" : "tmh",
  "price" : 250,
  "qty" : 15
}
{
  "_id" : ObjectId("634fe7b2001a7800b7cbf406"),
  "title" : "abc",
  "author" : "John Zelle",
  "publisher" : "tmh",
  "price" : 650,
  "qty" : 10
}

```

```
{
  "id" : ObjectId("634fe8d8001a7800b7cbf40a"),
  "title" : "Web Technology",
  "author" : "Yashwant Kanetkar",
  "publisher" : "tmh",
  "price" : 1150,
  "qty" : 50
}

db.book.find().skip(2).limit(4).pretty()
{
  "id" : ObjectId("634fe4ce001a7800b7cbf403"),
  "title" : "C++",
  "author" : "Yashwant Kanetkar",
  "publisher" : "Technical",
  "price" : 500,
  "qty" : 8
}
{
  "id" : ObjectId("634fe520001a7800b7cbf404"),
  "title" : "Artificial Intelligence",
  "author" : "Yash Mathur",
  "publisher" : "Techmax",
  "price" : 300,
  "qty" : 15
}
{
  "id" : ObjectId("634fe74f001a7800b7cbf405"),
  "title" : "Operating system",
  "author" : "Wlley",
  "publisher" : "tmh",
  "price" : 250,
  "qty" : 15
}
{
  "id" : ObjectId("634fe7b2001a7800b7cbf406"),
  "title" : "abc",
  "author" : "Yashwant Kanetkar",
  "publisher" : "techmax",
  "price" : 1200,
  "qty" : 5
}
}

db.book.find({quantity:{$lte:10}})
db.book.find({qty:{$lte:10}})
{
  "_id" : ObjectId("634fe2d001a7800b7cbf401"), "title" : "Python", "author" : "John Zelle", "publisher" : "tmh", "price" : 650, "qty" : 10 }
{
  "_id" : ObjectId("634fe4a1001a7800b7cbf402"), "title" : "DBMS", "author" : "Sudarshan Korth", "publisher" : "Technical", "price" : 700, "qty" : 7 }
{
  "_id" : ObjectId("634fe4ce001a7800b7cbf403"), "title" : "C++", "author" : "Yashwant Kanetkar", "publisher" : "Technical", "price" : 500, "qty" : 8 }
{
  "_id" : ObjectId("634fe7b2001a7800b7cbf406"), "title" : "abc", "author" : "Yashwant Kanetkar", "publisher" : "techmax", "price" : 1200, "qty" : 5 }
{
  "_id" : ObjectId("634fe831001a7800b7cbf407"), "title" : "Computer Fundamentals", "author" : "P K Sinha", "publisher" : "wlley", "price" : 900, "qty" : 5 }
}

<<THANK YOU>>
```