

```
PS C:\Users\HP> mongosh
Current Mongosh Log ID: 66efb6725d60afa7baa8c9ca
Connecting to:
mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.9.1
Using MongoDB: 7.0.12
Using Mongosh: 1.9.1
```

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

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The server generated these startup warnings when booting
2024-09-22T06:49:15.605+05:30: Access control is not enabled for the database. Read and write access to data and configuration
is unrestricted
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```

```
test> db.students.find()
[
  {
    _id: ObjectId("669f47ef61bbe242162b2c19"),
    name: 'Priya',
    age: 24,
    subject: [ 'History', 'Philosophy' ],
    graduated: true,
    hasMaths: false
  },
  {
    _id: ObjectId("669f47ef61bbe242162b2c1b"),
    name: 'Sita',
    age: 25,
    subject: [ 'Math', 'Science' ],
    graduated: false,
    hasMaths: true
  },
  {
    _id: ObjectId("669f494c61bbe242162b2c1c"),
    name: 'Reema',
    age: 21,
    subject: [ 'Math', 'Science' ],
    graduated: false,
    hasMaths: true
  }
]
test> db.collections.createIndex({"name":1})
name_1
test> db.students.getIndex()
TypeError: db.students.getIndex is not a function
test> db.students.showIndex()
TypeError: db.students.showIndex is not a function
test> db.students.showIndexes()
TypeError: db.students.showIndexes is not a function
test> db.students.getIndexes()
[ { v: 2, key: { _id: 1 }, name: '_id_' } ]
test> db.students.dropIndexes({"name":1})
MongoshInternalError: can't find index with key: { name: 1 }
test> db.students.createIndex({"name":1})
name_1
test> db.students.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { name: 1 }, name: 'name_1' }
]
test> db.students.dropIndexes({"name":1})
{ nIndexesWas: 2, ok: 1 }
test> db.students.getIndexes()
[ { v: 2, key: { _id: 1 }, name: '_id_' } ]
test> db.students.createIndex({"name":1},{unique:true})
name_1
test> db.students.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
```

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    { v: 2, key: { name: 1 }, name: 'name_1', unique: true }
  ]
test> db.students.find({"name":"Reema"})
[
  {
    _id: ObjectId("669f494c61bbe242162b2c1c"),
    name: 'Reema',
    age: 21,
    subject: [ 'Math', 'Science' ],
    graduated: false,
    hasMaths: true
  }
]
test> db.students.dropIndexes({"name":1})
{ nIndexesWas: 2, ok: 1 }
test> db.students.getIndexes()
[ { v: 2, key: { _id: 1 }, name: '_id_' } ]
test> db.students.createIndex({age:""})
Uncaught:
SyntaxError: Unterminated string constant. (1:29)

> 1 | db.students.createIndex({age:""})
    |                         ^
    2 |

test> db.students.createIndex({age:1})
age_1
test> db.students.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { age: 1 }, name: 'age_1' }
]
test> db.students.dropIndexes({"age":1})
{ nIndexesWas: 2, ok: 1 }
test> db.students.getIndexes()
[ { v: 2, key: { _id: 1 }, name: '_id_' } ]
test> db.students.createIndex({_id:1},{unique:true,sparse:true,name:"My_Index_on_id",expireAfterSeconds:3600,hidden:false})
MongoServerError: The field 'unique' is not valid for an _id index specification. Specification: { unique: true, sparse: true, name:
"My_Index_on_id", expireAfterSeconds: 3600, hidden: false, key: { _id: 1 }, v: 2 }
test> db.students.createIndex({age:1},{unique:true,sparse:true,name:"My_Index_on_id",expireAfterSeconds:3600,hidden:false})
My_Index_on_id
test> db.students.showIndexes()
TypeError: db.students.showIndexes is not a function
test> db.students.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  {
    v: 2,
    key: { age: 1 },
    name: 'My_Index_on_id',
    unique: true,
    sparse: true,
    expireAfterSeconds: 3600
  }
]
test> db.students.createIndexes([{{age:1},{_id:1}}])
[ 'age_1', '_id_1' ]
test> db.students.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  {
    v: 2,
    key: { age: 1 },
    name: 'My_Index_on_id',
    unique: true,
    sparse: true,
    expireAfterSeconds: 3600
  },
  { v: 2, key: { age: 1 }, name: 'age_1' }
]

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test> db.students.dropIndex("age_1")
{ nIndexesWas: 3, ok: 1 }
test> db.students.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_ ' },
  {
    v: 2,
    key: { age: 1 },
    name: 'My_Index_on_id',
    unique: true,
    sparse: true,
    expireAfterSeconds: 3600
  }
]
test> db.students.getIndexes().length(0)
... db.students.getIndexes().length()
Uncaught:
SyntaxError: Unexpected token, expected ",", (2:0)

   1 | db.students.getIndexes().length(0)
>  2 | db.students.getIndexes().length()
     | ^
     3 |

test> db.students.getIndexes().length()
TypeError: db.students.getIndexes().length is not a function
test> db.students.getIndexes().size()
TypeError: db.students.getIndexes().size is not a function
test> db.students.getIndexes().size

test> db.students.getIndexes().length
2
test> db.students.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_ ' },
  {
    v: 2,
    key: { age: 1 },
    name: 'My_Index_on_id',
    unique: true,
    sparse: true,
    expireAfterSeconds: 3600
  }
]
test> db.students.dropIndex({age:1})
{ nIndexesWas: 2, ok: 1 }
test> db.students.getIndexes()
[ { v: 2, key: { _id: 1 }, name: '_id_ ' } ]
test> db.students.dropIndex({_id:1})
MongoServerError: cannot drop _id index
test> db.students.find().length

test> db.students.find()
[
  {
    _id: ObjectId("669f47ef61bbe242162b2c19"),
    name: 'Priya',
    age: 24,
    subject: [ 'History', 'Philosophy' ],
    gratuated: true,
    hasMaths: false
  },
  {
    _id: ObjectId("669f47ef61bbe242162b2c1b"),
    name: 'Sita',
    age: 25,
    subject: [ 'Math', 'Science' ],
    gratuated: false,
    hasMaths: true
  },
]

```

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{
  _id: ObjectId("669f494c61bbe242162b2c1c"),
  name: 'Reema',
  age: 21,
  subject: [ 'Math', 'Science' ],
  graduated: false,
  hasMaths: true
}
]
test> db.students.find().count(0
... db.students.find().count()
Uncaught:
SyntaxError: Unexpected token, expected "," (2:0)

  1 | db.students.find().count(0
> 2 | db.students.find().count()
    | ^
    3 |

test> db.students.find().count()
3

```