

```
test> show databases;
Backend      40.00 KiB
CLASS3       72.00 KiB
Company      72.00 KiB
Material     72.00 KiB
MorningBites  8.00 KiB
admin        40.00 KiB
class10      144.00 KiB
class10c2    56.00 KiB
class11c1    168.00 KiB
class4       72.00 KiB
class4c2     72.00 KiB
class5c1     72.00 KiB
class6c1     72.00 KiB
class9       72.00 KiB
config       48.00 KiB
grow         144.00 KiB
local        96.00 KiB
majorproject 204.00 KiB
test> use Batch18
switched to db Batch18
Batch18> show tables;
```

```
Batch18> show databases;
Backend      40.00 KiB
CLASS3       72.00 KiB
Company      72.00 KiB
Material     72.00 KiB
MorningBites  8.00 KiB
admin        40.00 KiB
class10      144.00 KiB
class10c2    56.00 KiB
class11c1    168.00 KiB
class4       72.00 KiB
class4c2     72.00 KiB
class5c1     72.00 KiB
class6c1     72.00 KiB
class9       72.00 KiB
config       72.00 KiB
grow         144.00 KiB
local        96.00 KiB
majorproject 204.00 KiB
```

```
Batch18> db.student.insert({name:"Rohan",age:27,Degree:"MCA"});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or
bulkWrite.
{
  acknowledged: true,
```

```

    insertedIds: { '0': ObjectId('68d6777eefd9b57cf3748a5f') }
  }
Batch18> show databases;
Backend      40.00 KiB
Batch18      40.00 KiB
CLASS3       72.00 KiB
Company      72.00 KiB
Material     72.00 KiB
MorningBites  8.00 KiB
admin        40.00 KiB
class10      144.00 KiB
class10c2    56.00 KiB
class11c1    168.00 KiB
class4       72.00 KiB
class4c2     72.00 KiB
class5c1     72.00 KiB
class6c1     72.00 KiB
class9       72.00 KiB
config       72.00 KiB
grow         144.00 KiB
local        96.00 KiB
majorproject 204.00 KiB
Batch18>
db.student.insert({name:"Mohan",age:27,Degree:"M.Tech"},{name:"Suman",age:21,Degree:"
B.Tech"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('68d677e3efd9b57cf3748a60') }
}
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),
    name: 'Rohan',
    age: 27,
    Degree: 'MCA'
  },
  {
    _id: ObjectId('68d677e3efd9b57cf3748a60'),
    name: 'Mohan',
    age: 27,
    Degree: 'M.Tech'
  }
]
Batch18> db.student.insertMany({name:"Raman",age:27,Degree:"M.Tech"},{name:"Vinnet
Suman",age:21,Degree:"B.Tech"});
MongoInvalidArgumentError: Argument "docs" must be an array of documents

```

```
Batch18> db.student.insertMany([{name:"Raman",age:27,Degree:"M.Tech"},{name:"Vinnet Suman",age:21,Degree:"B.Tech"}]);
```

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('68d67836efd9b57cf3748a61'),
    '1': ObjectId('68d67836efd9b57cf3748a62')
  }
}
```

```
Batch18> db.student.find();
```

```
[
  {
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),
    name: 'Rohan',
    age: 27,
    Degree: 'MCA'
  },
  {
    _id: ObjectId('68d677e3efd9b57cf3748a60'),
    name: 'Mohan',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Raman',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a62'),
    name: 'Vinnet Suman',
    age: 21,
    Degree: 'B.Tech'
  }
]
```

```
Batch18> db.student.findOne();
```

```
{
  _id: ObjectId('68d6777eefd9b57cf3748a5f'),
  name: 'Rohan',
  age: 27,
  Degree: 'MCA'
}
```

```
Batch18> db.student.findOne({age:21});
```

```
{
  _id: ObjectId('68d67836efd9b57cf3748a62'),
  name: 'Vinnet Suman',
  age: 21,
}
```

```

    Degree: 'B.Tech'
  }
Batch18> db.student.findOne({age:27});
{
  _id: ObjectId('68d6777eefd9b57cf3748a5f'),
  name: 'Rohan',
  age: 27,
  Degree: 'MCA'
}
Batch18> db.student.find({age:27});
[
  {
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),
    name: 'Rohan',
    age: 27,
    Degree: 'MCA'
  },
  {
    _id: ObjectId('68d677e3efd9b57cf3748a60'),
    name: 'Mohan',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Raman',
    age: 27,
    Degree: 'M.Tech'
  }
]
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),
    name: 'Rohan',
    age: 27,
    Degree: 'MCA'
  },
  {
    _id: ObjectId('68d677e3efd9b57cf3748a60'),
    name: 'Mohan',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Raman',
    age: 27,

```

```

    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a62'),
    name: 'Vinnnet Suman',
    age: 21,
    Degree: 'B.Tech'
  }
]
Batch18> db.student.updateOne({name:"Raman"},{$set:{name:"Parth Rajpoot"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),
    name: 'Rohan',
    age: 27,
    Degree: 'MCA'
  },
  {
    _id: ObjectId('68d677e3efd9b57cf3748a60'),
    name: 'Mohan',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a62'),
    name: 'Vinnnet Suman',
    age: 21,
    Degree: 'B.Tech'
  }
]
Batch18> db.student.updateOne({name:"Rohan"},{$set:{name:"Paritosh
Sahu"},{age:23},{Degree:"B.Tech"}});
Uncaught:
SyntaxError: Unexpected token (1:65)

```

```
> 1 | db.student.updateOne({name:"Rohan"},{$set:{name:"Paritosh Sahu"},{age:23},{Degree:"B.Tech"}});
```

```
| ^  
2 |
```

```
Batch18> db.student.updateOne({name:"Rohan"},{$set:{name:"Paritosh Sahu",age:23,Degree:"B.Tech"}});
```

```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0
```

```
}
```

```
Batch18> db.student.find();
```

```
[  
  {  
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),  
    name: 'Paritosh Sahu',  
    age: 23,  
    Degree: 'B.Tech'  
  },  
  {  
    _id: ObjectId('68d677e3efd9b57cf3748a60'),  
    name: 'Mohan',  
    age: 27,  
    Degree: 'M.Tech'  
  },  
  {  
    _id: ObjectId('68d67836efd9b57cf3748a61'),  
    name: 'Parth Rajpoot',  
    age: 27,  
    Degree: 'M.Tech'  
  },  
  {  
    _id: ObjectId('68d67836efd9b57cf3748a62'),  
    name: 'Vinnnet Suman',  
    age: 21,  
    Degree: 'B.Tech'  
  }  
]
```

```
Batch18> db.student.updateOne({age:21},{$set:{salaryAccount:true}});
```

```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,
```

```

    upsertedCount: 0
  }
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),
    name: 'Paritosh Sahu',
    age: 23,
    Degree: 'B.Tech'
  },
  {
    _id: ObjectId('68d677e3efd9b57cf3748a60'),
    name: 'Mohan',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a62'),
    name: 'Vinnet Suman',
    age: 21,
    Degree: 'B.Tech',
    salaryAccount: true
  }
]
Batch18> db.student.deleteOne({age:27});
{ acknowledged: true, deletedCount: 1 }
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d6777eefd9b57cf3748a5f'),
    name: 'Paritosh Sahu',
    age: 23,
    Degree: 'B.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a62'),

```

```

    name: 'Vinnet Suman',
    age: 21,
    Degree: 'B.Tech',
    salaryAccount: true
  }
]
Batch18> db.student.deleteMany({Degree:"B.Tech"});
{ acknowledged: true, deletedCount: 2 }
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  }
]
Batch18> db.student.insertMany([{name:"Raman",age:27,Degree:"M.Tech"},{name:"Vinnet
Suman",age:21,Degree:"B.Tech"}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('68d67a9befd9b57cf3748a63'),
    '1': ObjectId('68d67a9befd9b57cf3748a64')
  }
}
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a64'),
    name: 'Vinnet Suman',
    age: 21,
    Degree: 'B.Tech'
  }
]
Batch18> db.student.updateOne({name:"Raman"},{$set:{age:23}});

```



```

{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Batch18> db.student.updateOne({Degree:"B.Tech"},{$set:{age:20}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Batch18> db.student.find();
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a64'),
    name: 'Vinnet Suman',
    age: 20,
    Degree: 'B.Tech'
  }
]
Batch18> db.student.find().sort({age:1});
[
  {
    _id: ObjectId('68d67a9befd9b57cf3748a64'),
    name: 'Vinnet Suman',
    age: 20,
    Degree: 'B.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,

```

```

    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  }
]
Batch18> db.student.find().sort({age:-1});
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a64'),
    name: 'Vinnnet Suman',
    age: 20,
    Degree: 'B.Tech'
  }
]
Batch18> db.student.find().sort({age:-1}).limit(2);
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
    Degree: 'M.Tech'
  }
]
Batch18> db.student.find({$lt:{age:27}});

```

MongoServerError[BadValue]: unknown top level operator: \$lt. If you have a field name that starts with a '\$' symbol, consider using \$getField or \$setField.

```
Batch18> db.student.find({age:{$lt:27}});
[
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a64'),
    name: 'Vinnnet Suman',
    age: 20,
    Degree: 'B.Tech'
  }
]
```

```
Batch18> db.student.find({age:{$lte:27}});
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a64'),
    name: 'Vinnnet Suman',
    age: 20,
    Degree: 'B.Tech'
  }
]
```

```
Batch18> db.student.find({age:{$gte:20}});
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
```

```

    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a64'),
    name: 'Vinnnet Suman',
    age: 20,
    Degree: 'B.Tech'
  }
]
Batch18> db.student.find({age:{$gt:20}});
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
    Degree: 'M.Tech'
  }
]
Batch18> db.student.find({age:{$ne:20}});
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {
    _id: ObjectId('68d67a9befd9b57cf3748a63'),
    name: 'Raman',
    age: 23,
    Degree: 'M.Tech'
  }
]
Batch18> db.student.find({age:{$ne:30}});
[
  {
    _id: ObjectId('68d67836efd9b57cf3748a61'),
    name: 'Parth Rajpoot',
    age: 27,
    Degree: 'M.Tech'
  },
  {

```

```
_id: ObjectId('68d67a9befd9b57cf3748a63'),  
name: 'Raman',  
age: 23,  
Degree: 'M.Tech'  
},  
{  
_id: ObjectId('68d67a9befd9b57cf3748a64'),  
name: 'Vinnet Suman',  
age: 20,  
Degree: 'B.Tech'  
}  
]  
Batch18> db.student.find({age:{$eq:30}});
```

Batch