

MongoDB Operations

1. Inserting a document

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
vivek_db> db.students.insertOne({First_name:"Harshit",Last_name:"Rawat",Gender:"Male",age:21})
{
  acknowledged: true,
  insertedId: ObjectId('664bc2230a78946169a26a13')
}
vivek_db>
```

2. Inserting Many documents at same time.

```
vivek_db> db.students.insertMany([{"First_name":"Rohit",Last_name:"Kumar",Gender:"Male",age:31}, {"First_name":"Mohit",Last_name:"Negi",Gender:"Male",age:35}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('664bc3820a78946169a26a14'),
    '1': ObjectId('664bc3820a78946169a26a15')
  }
}
```

Output:

```
▶ _id: ObjectId('664c5184f10eb20cc6a26a16')
  First_name : "Rohit"
  Last_name  : "Kumar"
  Gender     : "Male"
  age       : 31

_id: ObjectId('664c5184f10eb20cc6a26a17')
  First_name : "Mohit"
  Last_name  : "Negi"
  Gender     : "Male"
  age       : 35
```

3. Finding/Displaying all the documents

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
vivek_db> db.students.find()
[
  {
    _id: ObjectId('664bb7ddd4f813c76ea26a13'),
    First_name: 'Vivek',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  },
  {
    _id: ObjectId('664bb7fcd4f813c76ea26a14'),
    First_name: 'Vijay',
    Last_name: 'Kanwal',
    Gender: 'Male',
    age: 20
  },
  {
    _id: ObjectId('664bc2230a78946169a26a13'),
    First_name: 'Harshit',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  }
]
```

4. Finding or displaying documents with conditions.

```
vivek_db> db.students.find({age:{$lte:22}})
[
  {
    _id: ObjectId('664bb7ddd4f813c76ea26a13'),
    First_name: 'Vivek',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  },
  {
    _id: ObjectId('664bb7fcd4f813c76ea26a14'),
    First_name: 'Vijay',
    Last_name: 'Kanwal',
    Gender: 'Male',
    age: 20
  },
  {
    _id: ObjectId('664bc2230a78946169a26a13'),
    First_name: 'Harshit',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  }
]
```

5. Finding/Displaying using \$in.

```
]
vivek_db> db.students.find({age:{$in:[21,22]}})
[
  {
    _id: ObjectId('664c5457f10eb20cc6a26a18'),
    First_name: 'Vivek',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  },
  {
    _id: ObjectId('664c5462f10eb20cc6a26a19'),
    First_name: 'Harshit',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  }
]
```

6. Finding/Displaying documents using \$nin.

```
vivek_db> db.students.find({age:{$nin:[21,22]}})
[
  {
    _id: ObjectId('664c5467f10eb20cc6a26a1a'),
    First_name: 'Rohit',
    Last_name: 'Kumar',
    Gender: 'Male',
    age: 31
  },
  {
    _id: ObjectId('664c5467f10eb20cc6a26a1b'),
    First_name: 'Mohit',
    Last_name: 'Negi',
    Gender: 'Male',
    age: 35
  },
  {
    _id: ObjectId('664c54ddf10eb20cc6a26a1c'),
    First_name: 'Vijay',
    Last_name: 'Kanwal',
    Gender: 'Male',
    age: 20
  }
]
```

7. Limiting and Sorting data

\$limit:

```
vivek_db> db.students.find().limit(2)
[
  {
    _id: ObjectId('664c5457f10eb20cc6a26a18'),
    First_name: 'Vivek',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  },
  {
    _id: ObjectId('664c5462f10eb20cc6a26a19'),
    First_name: 'Harshit',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  }
]
```

\$sort:

```
vivek_db> db.students.find().sort({age:1})
[
  {
    _id: ObjectId('664c54ddf10eb20cc6a26a1c'),
    First_name: 'Vijay',
    Last_name: 'Kanwal',
    Gender: 'Male',
    age: 20
  },
  {
    _id: ObjectId('664c5457f10eb20cc6a26a18'),
    First_name: 'Vivek',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  },
  {
    _id: ObjectId('664c5462f10eb20cc6a26a19'),
    First_name: 'Harshit',
    Last_name: 'Rawat',
    Gender: 'Male',
    age: 21
  },
  {
    _id: ObjectId('664c5467f10eb20cc6a26a1a'),
    First_name: 'Rohit',
    Last_name: 'Kumar',
    Gender: 'Male',
    age: 31
  },
  {
    _id: ObjectId('664c5467f10eb20cc6a26a1b'),
    First_name: 'Mohit',
    Last_name: 'Negi',
    Gender: 'Male'
  }
]
```

8. Updating a existing document.

```
vivek_db> db.students.updateOne({First_name:"Vijay"},{$set:{age:22}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

Output:

```
_id: ObjectId('664c510cf10eb20cc6a26a14')
First_name: "Vijay"
Last_name: "Kanwal"
Gender: "Male"
age: 22
```

9. Updating more than 1 document at same time.

```
vivek_db> db.students.updateMany({Last_name:"Rawat"},{$set:{age:23}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}
vivek_db> db.students.find({Last_name:"Rawat"})
```

Output:

<div><div></div><div><pre>_id: ObjectId('664c50faf10eb20cc6a26a13') First_name: "Vivek" Last_name: "Rawat" Gender: "Male" age: 23</pre></div></div>	
<div><div></div><div><pre>_id: ObjectId('664c510cf10eb20cc6a26a14') First_name: "Vijay" Last_name: "Kanwal" Gender: "Male" age: 20</pre></div></div>	<div><div></div><div><div></div><div></div><div></div><div></div></div></div>
<div><div></div><div><pre>_id: ObjectId('664c511ef10eb20cc6a26a15') First_name: "Harshit" Last_name: "Rawat" Gender: "Male" age: 23</pre></div></div>	

10. Advance Projection query.

```
vivek_db> db.students.find({age:{$gte:22}},{First_name:1,age:1})
[
  {
    _id: ObjectId('664bc3820a78946169a26a14'),
    First_name: 'Rohit',
    age: 31
  },
  {
    _id: ObjectId('664bc3820a78946169a26a15'),
    First_name: 'Mohit',
    age: 35
  }
]
vivek_db> █
```

11. Deleting a document.

```
vivek_db> db.students.deleteOne({First_name:"Mohit"})
{ acknowledged: true, deletedCount: 1 }
vivek_db>
```

Output :

ADD DATA

EXPORT DATA

UPDATE

DELETE

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<div><div></div><div><pre>_id: ObjectId('664c50faf10eb20cc6a26a13') First_name: "Vivek" Last_name: "Rawat" Gender: "Male" age: 23</pre></div></div>	
<div><div></div><div><pre>_id: ObjectId('664c510cf10eb20cc6a26a14') First_name: "Vijay" Last_name: "Kanwal" Gender: "Male" age: 22</pre></div></div>	<div><div></div><div></div><div></div><div></div></div>
<div><div></div><div><pre>_id: ObjectId('664c511ef10eb20cc6a26a15') First_name: "Harshit" Last_name: "Rawat" Gender: "Male" age: 23</pre></div></div>	
<div><div></div><div><pre>_id: ObjectId('664c5184f10eb20cc6a26a16') First_name: "Rohit" Last_name: "Kumar" Gender: "Male" age: 31</pre></div></div>	

12. Deleting more than one document at same time.

```
vivek_db> db.students.deleteMany({age:{$gte:22}})
{ acknowledged: true, deletedCount: 4 }
vivek_db>
```

Output:


ADD DATA

EXPORT DATA

UPDATE

DELETE

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This collection has no data

It only takes a few seconds to import data from a JSON or CSV file.

Import Data