



```
testdb> db.student.find();
[
  {
    _id: ObjectId('66223139bc3b96e9e216c9b5'),
    name: 'siddharth',
    age: 21,
    email: '22it3052@rgipt.ac.in'
  },
  {
    _id: ObjectId('66223310bc3b96e9e216c9b6'),
    name: 'saurabh',
    age: 20,
    email: '22it3043@rgipt.ac.in'
  },
  {
    _id: ObjectId('66223310bc3b96e9e216c9b7'),
    name: 'shivansh',
    age: 20,
    email: '22it3047@rgipt.ac.in'
  },
  {
    _id: ObjectId('66223310bc3b96e9e216c9b8'),
    name: 'Akshat',
    age: 20,
    email: '22it3003@rgipt.ac.in'
  },
  {
    _id: ObjectId('66223310bc3b96e9e216c9b9'),
    name: 'saurabh',
    age: 20,
    email: '22it3044@rgipt.ac.in'
  },
  {
    _id: ObjectId('6622336abc3b96e9e216c9ba'),
    name: 'subham',
    age: 20,
    email: '22it3051@rgipt.ac.in'
  }
]
```

```
{
  _id: ObjectId('66223310bc3b96e9e216c9b9'),
  name: 'saurabh',
  age: 20,
  email: '22it3044@rgipt.ac.in'
},
{
  _id: ObjectId('6622336abc3b96e9e216c9ba'),
  name: 'subham',
  age: 20,
  email: '22it3051@rgipt.ac.in'
},
{
  _id: ObjectId('6622336abc3b96e9e216c9bb'),
  name: 'aditya',
  age: 20,
  email: '22it3002@rgipt.ac.in'
},
{
  _id: ObjectId('6622336abc3b96e9e216c9bc'),
  name: 'sharmaJikaladka',
  age: 20,
  email: '22it3040@rgipt.ac.in'
},
{
  _id: ObjectId('6622336abc3b96e9e216c9bd'),
  name: 'ranjanboy',
  age: 20,
  email: '22it3037@rgipt.ac.in'
},
{
  _id: ObjectId('66223380bc3b96e9e216c9be'),
  name: 'saksham',
  age: 21,
  email: '22it3039@rgipt.ac.in'
}
}
```

```
]
testdb> db.student.find().count();
10
testdb> |
```

```
testdb> db.student.updateOne({ _id: ObjectId('6622336abc3b96e9e216c9bc')
}, {$inc:{age:1}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
testdb> |
```



```
age: 20,  
email: '22it3003@rgipt.ac.in'  
,  
_id: ObjectId('66223310bc3b96e9e216c9b9'),  
name: 'saurabh',  
age: 20,  
email: '22it3044@rgipt.ac.in'  
,  
_id: ObjectId('6622336abc3b96e9e216c9ba'),  
name: 'subham',  
age: 20,  
email: '22it3051@rgipt.ac.in'  
,  
_id: ObjectId('6622336abc3b96e9e216c9bb'),  
name: 'aditya',  
age: 20,  
email: '22it3002@rgipt.ac.in'  
,  
_id: ObjectId('6622336abc3b96e9e216c9bc'),  
name: 'sharmaJikaladka',  
age: 21,  
email: '22it3040@rgipt.ac.in'  
,  
_id: ObjectId('6622336abc3b96e9e216c9bd'),  
name: 'ranjanboy',  
age: 20,  
email: '22it3037@rgipt.ac.in'  
,  
_id: ObjectId('66223380bc3b96e9e216c9be'),  
name: 'saksham',  
age: 21,  
email: '22it3039@rgipt.ac.in'
```

```
]
testdb> db.student.deleteOne({name:"ranjanboy"});
{ acknowledged: true, deletedCount: 1 }
testdb> db.student.find().count();
9
testdb> |
```

```
testdb> db.students.aggregate([ { $group: { _id:null,ageAvg: { $avg: '$age' }}}],
testdb> db.student.createIndex
name_1
testdb> db.student.createIndex({name:1})
testdb> db.student.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { name: 1 }, name: 'name_1' }
]
testdb>
testdb> |
```

```

    }
]
testdb> db.student.deleteOne({name:"ranjanboy"});
{ acknowledged: true, deletedCount: 1 }
testdb> db.student.find().count();
9
testdb>
(To exit, press Ctrl+C again or Ctrl+D or type .exit)
testdb> db.students.aggregate([ { $project: { ageAvg: { $avg: "$age" }}}])

testdb> db.students.aggregate([ { $project: { ageAvg: { $avg: "$age" }}}])

testdb> db.students.aggregate([ { $project: { ageAvg: { $avg: "$age" }}}]);

testdb> db.students.aggregate([ { $group: { _id:null,ageAvg: { $avg: "$age" }}}]);
testdb> db.student.createIndex
name_1
testdb> db.student.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { name: 1 }, name: 'name_1' }
]
testdb>
testdb> |

```


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Documents 9 Aggregations Schema Indexes 2 Validation

Type a query: (field: 'value') or [Generate query](#)

ADD DATA

EXPORT

1 - 9 of 9

_id: ObjectId('66223310bc3b96e9e216c9b8')

name: "siddharth"

age: 21

email: "22it3052g@rgipt.ac.in"

_id: ObjectId('66223310bc3b96e9e216c9b9')

name: "saurabh"

age: 20

email: "22it30438@rgipt.ac.in"

_id: ObjectId('66223310bc3b96e9e216c9ba')

name: "shivansh"

age: 20

email: "22it30479@rgipt.ac.in"

_id: ObjectId('66223310bc3b96e9e216c9bb')

name: "Akshat"

age: 20

email: "22it3003@rgipt.ac.in"

_id: ObjectId('66223310bc3b96e9e216c9bc')

name: "saurabh"

age: 20

email: "22it3003@rgipt.ac.in"

Export

Collection testdb.student

Export File Type

JSON

CSV

[Advanced JSON Format](#)

Cancel

Export...

My Queries

Performance

Databases

Search

accounts

admin

config

ksjehfn

local

testdb

student

students

university

weather

testdb > student

Documents 9 Aggregations Schema Indexes 2 Validation

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA EXPORT DATA UPDATE DELETE

`_id: ObjectId('66223139bc3b96e9e216c9b5')`
`name: "siddharth"`
`age: 21`
`email: "22it3052@rgipt.ac.in"`

`_id: ObjectId('66223310bc3b96e9e216c9b6')`
`name: "saurabh"`
`age: 20`
`email: "22it3043@rgipt.ac.in"`

`_id: ObjectId('66223310bc3b96e9e216c9b7')`
`name: "shivansh"`
`age: 20`
`email: "22it3047@rgipt.ac.in"`

`_id: ObjectId('66223310bc3b96e9e216c9b8')`
`name: "Akshat"`
`age: 20`
`email: "22it3003@rgipt.ac.in"`

`_id: ObjectId('66223310bc3b96e9e216c9b9')`
`name: "saurabh"`

Export completed.

9 documents written.

[SHOW FILE](#)

File Edit Selection View Go Run Terminal Help Search

testdb.student.json X

C:\Users\siddh\Downloads\testdb.student.json ident.json > ...

```
1  [{
2    "_id": {
3      "$oid": "66223139bc3b96e9e216c9b5"
4    },
5    "name": "siddharth",
6    "age": 21,
7    "email": "22it3052@rgipt.ac.in"
8  },
9  {
10   "_id": {
11     "$oid": "66223310bc3b96e9e216c9b6"
12   },
13   "name": "saurabh",
14   "age": 20,
15   "email": "22it3043@rgipt.ac.in"
16 },
17 {
18   "_id": {
19     "$oid": "66223310bc3b96e9e216c9b7"
20   },
21   "name": "shivansh",
22   "age": 20,
23   "email": "22it3047@rgipt.ac.in"
24 },
25 {
26   "_id": {
27     "$oid": "66223310bc3b96e9e216c9b8"
28   },
29   "name": "Akshat",
30   "age": 20,
31   "email": "22it3003@rgipt.ac.in"
32 },
33 {
34   "_id": {
35     "$oid": "66223310bc3b96e9e216c9b9"
36   },
37   "name": "saurabh",
```

< 0 0 0 0

MongoDB Compass - localhost:27017/testdb.student

Connect Edit View Collection Help

localhost:27017

My Queries

student

+

testdb > student

Documents 9 Aggregations Schema **Indexes 2** Validation

Create Index Refresh

VIEWING INDEXES SEARCH INDEXES

Name and Definition	Type	Size	Usage	Properties
> _id_	REGULAR ⓘ	36.9 KB	2 (since Fri Apr 19 2024)	UNIQUE ⓘ
> name_1	REGULAR ⓘ	20.5 KB	0 (since Fri Apr 19 2024)	

Export completed.

My Queries

Performance

Databases

Search

accounts

admin

config

ksjehfn

local

testdb

student

students

university

weather

STAGE INPUT

Sample of 9 documents

`{
 "_id": ObjectId('66223139bc3b96e9e216c9b5'),
 "name": "siddharth",
 "age": 21,
 "email": "22it3052@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223310bc3b96e9e216c9b6'),
 "name": "saurabh",
 "age": 20,
 "email": "22it3043@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223310bc3b96e9e216c9b7'),
 "name": "shivansh",
 "age": 20,
 "email": "22it3047@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223310bc3b96e9e216c9b8'),
 "name": "Akshat",
 "age": 20,
 "email": "22it3003@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223310bc3b96e9e216c9b9'),
 "name": "saurabh",
 "age": 20,
 "email": "22it3044@rgipt.ac.in"
}`

`{
 "_id": ObjectId('6622336abc3b96e9e216c9ba'),
 "name": "subham"
}`

OPTIONS

\$sort

Open docs

```
1 //**
2 * Provide any number of field/order pairs.
3 */
4 {
5   age: -1,
6 }
```

STAGE OUTPUT

Sample of 9 documents

`{
 "_id": ObjectId('66223139bc3b96e9e216c9b5'),
 "name": "siddharth",
 "age": 21,
 "email": "22it3052@rgipt.ac.in"
}`

`{
 "_id": ObjectId('6622336abc3b96e9e216c9bc'),
 "name": "sharmaJikaladka",
 "age": 21,
 "email": "22it3040@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223380bc3b96e9e216c9be'),
 "name": "saksham",
 "age": 21,
 "email": "22it3039@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223310bc3b96e9e216c9b6'),
 "name": "saurabh",
 "age": 20,
 "email": "22it3043@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223310bc3b96e9e216c9b7'),
 "name": "shivansh",
 "age": 20,
 "email": "22it3047@rgipt.ac.in"
}`

`{
 "_id": ObjectId('66223310bc3b96e9e216c9b8'),
 "name": "Akshat"
}`