

MongoDB Compass - arshcluster.8gjpawh.mongodb.net/Course_Management

Connect Edit View Help

arshcluster.8gjpawh.mongodb.net

My Queries

Course_Management

+

+ Create collection

Refresh

My Queries

Performance

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Search

Course_Management

courses

departments

enrollments

instructors

schedule

students

courses

Storage size: 4.10 kBDocuments: 0

departments

Storage size: 4.10 kBDocuments: 0

enrollments

>_MONGOSH

db.createCollection("courses")db.createCollection("instructors")db.createCollection("departments")db.createCollection("students")db.createCollection("enrollments")db.createCollection("schedule")< { ok: 1 }Atlas atlas-4c68tv-shard-0 [primary] test>

1 47°F Cloudy

Search



arshcluster.8gjpawh...

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Documents 0

Aggregations

Schema

Indexes 1

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

+ ADD DATA

EXPORT DATA

UPDATE

DELETE

>_MONGOSH

```
'1': ObjectId('660c32f6ab221645c72fe2f8')
}
}
> db.courses.insertOne({
  courseName: "Introduction to MongoDB",
  instructor: "John Doe",
  schedule: "Monday, 10:00 AM - 12:00 PM",
  enrollmentLimit: 30,
  enrolledStudents: ["Alice", "Bob", "Charlie"]
})
< {
  acknowledged: true,
  insertedId: ObjectId('660c348eab221645c72fe2f9')
}
```

Atlas atlas-4c68tv-shard-0 [primary] Course_Management>

42°F
Light rain

Search





arshcluster.8gjpawh...

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Course_Management > courses

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Aggregations

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Indexes 1

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

ADD DATA

EXPORT DATA

UPDATE

DELETE

```
_id: ObjectId('660c32f6ab221645c72fe2f7')
courseName: "Data Structures and Algorithms"
instructor: "Jane Smith"
schedule: "Tuesday, 2:00 PM - 4:00 PM"
enrollmentLimit: 25
enrolledStudents: Array (3)
```

```
_id: ObjectId('660c32f6ab221645c72fe2f8')
courseName: "Web Development Fundamentals"
instructor: "Sam Johnson"
schedule: "Thursday, 9:00 AM - 11:00 AM"
enrollmentLimit: 20
enrolledStudents: Array (3)
```

```
_id: ObjectId('660c348eab221645c72fe2f9')
courseName: "Introduction to MongoDB"
instructor: "John Doe"
schedule: "Monday, 10:00 AM - 12:00 PM"
enrollmentLimit: 30
enrolledStudents: Array (3)
```

>_MONGOSH

42°F
Light rain

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Filter

ADD DATA

EXPORT DATA

UPDATE

DELETE

>_MONGOSH

> use Course_Management

< switched to db Course_Management

> db.courses.insertMany([

```
{
  courseName: "Data Structures and Algorithms",
  instructor: "Jane Smith",
  schedule: "Tuesday, 2:00 PM - 4:00 PM",
  enrollmentLimit: 25,
  enrolledStudents: ["Eve", "Frank", "Grace"]
},
```

```
{
  courseName: "Web Development Fundamentals",
  instructor: "Sam Johnson",
  schedule: "Thursday, 9:00 AM - 11:00 AM",
  enrollmentLimit: 20,
```





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{}

+ ADD DATA

EXPORT DATA

UPDATE

DELETE

```
_id: ObjectId('660c32f6ab221645c72fe2f7')
courseName: "Data Structures and Algorithms"
instructor: "Jane Smith"
schedule: "Tuesday, 2:00 PM - 4:00 PM"
enrollmentLimit: 25
enrolledStudents: Array (3)
```

```
_id: ObjectId('660c32f6ab221645c72fe2f8')
courseName: "Web Development Fundamentals"
instructor: "Sam Johnson"
schedule: "Thursday, 9:00 AM - 11:00 AM"
enrollmentLimit: 20
enrolledStudents: Array (3)
```

42°F
Rain to stop



Search





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Schema

Indexes 1

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

ADD DATA

EXPORT DATA

UPDATE

DELETE

`_id: ObjectId('660e165abf96833db9d0fcad')``Course ID : "C001"``Course Name : "Course 1"``Instructor : "Instructor 1"``Description : "Description of Course 1"``Credits : 3``_id: ObjectId('660e165bbf96833db9d0fcae')``Course ID : "C002"`

>_MONGOSH

```
> for (let i = 1; i <= 10; i++) {  
  db.courses.insertOne({  
    "Course ID": "C00" + i,  
    "Course Name": "Course " + i,  
    "Instructor": "Instructor " + i,  
    "Description": "Description of Course " + i,  
    "Credits": Math.floor(Math.random() * 5) + 1  
  });  
}
```



33°F

Light rain/snow



Search





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

ADD DATA

EXPORT DATA

UPDATE

DELETE

Course Name : "Course 8"

Instructor : "Instructor 8"

Description : "Description of Course 8"

Credits : 1

`_id: ObjectId('660e165bbf96833db9d0fcb5')`

Course ID : "C009"

Course Name : "Course 9"

Instructor : "Instructor 9"

Description : "Description of Course 9"

Credits : 1

`_id: ObjectId('660e165bbf96833db9d0fcb6')`

Course ID : "C0010"

Course Name : "Course 10"

Instructor : "Instructor 10"

Description : "Description of Course 10"

Credits : 2

>_MONGOSH



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Light rain/snow



Search





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

+ ADD DATA

EXPORT DATA

UPDATE

DELETE

enrolledStudents : Array (3)

```
_id: ObjectId('660e165abf96833db9d0fcad')
Course ID : "C001"
Course Name : "Course 1"
Instructor : "Instructor 1"
Description : "Description of Course 1"
Credits : 3
```

>_MONGOSH

```
> db.courses.updateOne(
  { "Course ID": "C001" }, // Specify the filter to find the document you want to update
  {
    $set: { "Instructor": "Updated Instructor" } // Specify the update operation
  }
);
< {
  acknowledged: true,
  insertedId: null,
```

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Light rain/snow

Search



MongoDB Compass - arshcluster.8gjpawh.mongodb.net/Course_Management.courses

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

ADD DATA

EXPORT DATA

UPDATE

DELETE

enrolledStudents : Array (3)

_id: ObjectId('660e165abf96833db9d0fcad')

Course ID : "C001"

Course Name : "Course 1"

Instructor : "Updated Instructor"

Description : "Description of Course 1"

Credits : 3

>_MONGOSH

}
> db.courses.updateMany(
 { "Credits": { \$gt: 3 } }, // Specify the filter to find the documents you want to update
 {
 \$set: { "Instructor": "New Instructor" } // Specify the update operation
 }
);
< {
 acknowledged: true,

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Light rain/snow

Search



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

ADD DATA

EXPORT DATA

UPDATE

DELETE

enrolledStudents : Array (3)

```
_id: ObjectId('660e165abf96833db9d0fcad')
Course ID : "C001"
Course Name : "Course 1"
Instructor : "Updated Instructor"
Description : "Description of Course 1"
Credits : 3
```

>_MONGOSH

```
> db.courses.findOne(
  { "Course ID": "C001" } // Specify the filter to find the document you want to retrieve
);
< {
  _id: ObjectId('660e165abf96833db9d0fcad'),
  'Course ID': 'C001',
  'Course Name': 'Course 1',
  Instructor: 'Updated Instructor',
  Description: 'Description of Course 1',
```

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Light rain/snow

Search



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

ADD DATA EXPORT DATA UPDATE DELETE

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_id: ObjectId('660e165bbf96833db9d0fcae')

Course ID : "C002"

Course Name : "Course 2"

Instructor : "New Instructor"

Description : "Description of Course 2"

Credits : 4

id: ObjectId('660e165bbf96833db9d0fcae')

>_MONGOSH

> db.courses.find(
 { "Credits": { \$gt: 3 } } // Specify the filter to find the documents you want to retrieve
);
< {
 _id: ObjectId('660e165bbf96833db9d0fcae'),
 'Course ID': 'C002',
 'Course Name': 'Course 2',
 Instructor: 'New Instructor',
 Description: 'Description of Course 2'

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Light rain/snow

Search



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

+ ADD DATA

EXPORT DATA

UPDATE

DELETE

```
{ "_id": ObjectId("660e165bbf96833db9d0fcae"),  
  "courseName": "Introduction to MongoDB",  
  "instructor": "John Doe",  
  "schedule": "Monday, 10:00 AM - 12:00 PM",  
  "enrollmentLimit": 30,  
  "enrolledStudents": Array (3)
```

```
_id: ObjectId('660e165bbf96833db9d0fcae')  
Course ID : "C002"  
Course Name : "Course 2"
```

>_MONGOSH

```
}  
> db.courses.deleteOne(  
  { "Course ID": "C001" } // Specify the filter to find the document you want to delete  
);  
< {  
  acknowledged: true,  
  deletedCount: 1  
}  
> db.courses.deleteOne(  
  { "Course ID": "C002" }  
);
```

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Light rain/snow

Search



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

ADD DATA

EXPORT DATA

UPDATE

DELETE

instructor : "John Doe"

schedule : "Monday, 10:00 AM - 12:00 PM"

enrollmentLimit : 30

enrolledStudents : Array (3)

_id: ObjectId('660e165bbf96833db9d0fcb0')

Course ID : "C004"

Course Name : "Course 4"

Instructor : "Instructor 4"

>_MONGOSH

```
deleteMany: 0
}
> db.courses.deleteMany(
  { "Credits": { $gt: 3 } } // Specify the filter to find the documents you want to delete
);
< {
  acknowledged: true,
  deletedCount: 2
}
```

1 33°F
Rain and snow

Search

MongoDB Compass - arshcluster.8gjpawh.mongodb.net/Course_Management.collection

Connect Edit View Collection Help

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My QueriesPerformanceDatabases

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Course_Management

- collection
- collection1
- collection2
- collection_name
- courses
- departments

My QueriesDatabasesCourse_Management

Course_Management > collection

Documents 1AggregationsSchemaIndexes 2

Create IndexRefresh

Name and Definition	Type
> _id_	REGULAR
> instructor_1	REGULAR

```
>_MONGOSH
> db.collection2.createIndex({ field2: 1 })
< field2_1
> db.collection1.getIndexes()
db.collection2.getIndexes()
< [
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { field2: 1 }, name: 'field2_1' }
]
Atlas atlas-4c68tv-shard-0 [primary] Course_Management>
```

1 40°F Cloudy

Windows Search

Taskbar icons

MongoDB Compass - arshcluster.8gjpawh.mongodb.net/Course_Management.collection

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arshcluster.8gjpawh...

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Documents 1 Aggregations Schema Indexes 2

Your pipeline is currently empty. Need help getting started?

Untitled

SAVE

+ CREATE NEW

EXPORT TO LANGUAGE

1 Document in the collection

Preview of documents

_id: ObjectId('66109b3e4ab8e9644adaa310')

key : "updated_value"

>_MONGOSH

}

])

< {

_id: ObjectId('66109b3e4ab8e9644adaa310'),

key: 'updated_value',

outputField: []

}

Atlas atlas-4c68tv-shard-0 [primary] Course_Management>

40°F Cloudy

Search

MongoDB Compass - arshcluster.8gjpawh.mongodb.net/Course_Management.collection

Connect Edit View Collection Help

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Documents 1 Aggregations Schema Indexes 2

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

ADD DATA

EXPORT DATA

UPDATE

DELETE

_id: ObjectId('66109b3e4ab8e9644adaa310')

key: "updated_value"

>_MONGOSH

> db.collection.aggregate([
 { \$limit: 10 }
)
< {
 _id: ObjectId('66109b3e4ab8e9644adaa310'),
 key: 'updated_value'
}
Atlas atlas-4c68tv-shard-0 [primary] Course_Management>

1 40°F Cloudy

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Documents 1 Aggregations Schema Indexes 2

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

ADD DATA EXPORT DATA UPDATE DELETE

_id: ObjectId('66109b3e4ab8e9644adaa310')

key : "updated_value"

>_MONGOSH

> db.collection.aggregate([
 { \$sort: { field: 1 } }
)
< {
 _id: ObjectId('66109b3e4ab8e9644adaa310'),
 key: 'updated_value'
}
Atlas atlas-4c68tv-shard-0 [primary] Course_Management>

1 40°F Cloudy

Search

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collection

collection1

collection2

collection_name

courses

departments

collection

Storage size: 20.48 kBDocuments: 1

collection_name

Storage size: 4.10 kBDocuments: 0

collection1

Storage size: 20.48 kBDocuments: 1

>_MONGOSH

<

> db.collection.aggregate([
 { \$group: { _id: "\$field", count: { \$sum: 1 } } }
])
< {
 _id: null,
 count: 1
}
Atlas atlas-4c68tv-shard-0 [primary] Course_Management>

1 40°F Cloudy

Search

MongoDB Compass - arshcluster.8gjpawh.mongodb.net/Course_Management.collection1

Connect Edit View Collection Help

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My Que...

Course...

collection1

Course_Management > collection1

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

ADD DATA

EXPORT DATA

UPDATE

DELETE

_id: ObjectId('66109692e4afa9fe6cfab692')

key: "updated_value"

>_MONGOSH

db.collection2.createIndex({ field2: 1 })

< field2_1

> db.collection1.getIndexes()

db.collection2.getIndexes()

< [

{ v: 2, key: { _id: 1 }, name: '_id_' },

{ v: 2, key: { field2: 1 }, name: 'field2_1' }

]

Atlas atlas-4c68tv-shard-0 [primary] Course_Management>

1 40°F Cloudy

Search