

Assignment

Data communication

The image displays two screenshots of the MongoDB Compass interface, illustrating data communication operations on the 'students' collection within the 'studentinformation' database.

Top Screenshot: Shows the 'Find' operation. The query field contains the JSON document: `{ "_id": 1, "name": "John Doe", "age": 19, "email": "johndoe@example.com", "major": "Computer Science", "gpa": 3.9, "department": "Computer Science" }`. The result pane shows the corresponding document from the database.

Bottom Screenshot: Shows the 'Update' operation. The query field contains the JSON document: `{ "_id": 1, "name": "John Doe", "age": 19, "email": "johndoe@example.com", "major": "Computer Science", "gpa": 3.9 }`. The result pane shows the updated document with the following fields: `{ "acknowledged": true, "insertedId": null, "matchedCount": 1 }`.

MongoDB Compass - akshcluster.9zm... mongod.net/studentInformation/courses

Connect Edit View Collection Help

akshcluster.9zm...

My Queries Performance Databases

Search

admin config local sample_mflix studentInformation; courses enrollments exams instructors students

studentInformation; > courses

Documents 0 Aggregations Schema Indexes 1 Validation

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

EXPLAIN RESET FIND Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 2 of 2

```
{
  "_id": 1,
  "name": "Introduction to Computer Science",
  "department": "Computer Science",
  "instructor": "Dr. Jane Smith",
  "semester": "Fall 2022",
  "enrolledStudents": Array (empty)
}
```

```
{
  "_id": 2,
  "name": "Introduction to Psychology",
  "department": "Psychology",
  "instructor": "Dr. Michael Johnson",
  "semester": "Spring 2023",
  "enrolledStudents": Array (empty)
}
```

>_MONGOOSH

```
{}
< {
  acknowledged: true,
  insertedIds: {
    '0': 1,
    '1': 2
  }
}
```

Atlas atlas-jsview-shard-0 [primary] studentInformation;>

MongoDB Compass - akshcluster.9zm... mongod.net/studentInformation/students

Connect Edit View Collection Help

akshcluster.9zm...

My Queries Performance Databases

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EXPLAIN RESET FIND Options

ADD DATA EXPORT DATA UPDATE DELETE

0 - 0 of 0

This collection has no data
It only takes a few seconds to import data from a JSON or CSV file.

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```
{}
< {
  acknowledged: true,
  deletedCount: 1
}
```

Atlas atlas-jsview-shard-0 [primary] studentInformation;>

MongoDB Compass - akshcluster.9zmqaf.mongodb.net/studentInformation/courses

Connect Edit View Collection Help

akshcluster.9zm...

My Queries studentInformation; students courses

studentInformation > courses

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EXPLAIN RESET FIND Options

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1 - 2 of 2

```
{ "_id": 1, "name": "Introduction to Computer Science", "department": "Computer Science", "instructor": "Dr. Jane Smith", "semester": "Fall 2022", "enrolledStudents": Array (empty) }
```

```
{ "_id": 2, "name": "Introduction to Psychology", "department": "Psychology", "instructor": "Dr. Michael Johnson", "semester": "Spring 2023", "enrolledStudents": Array (empty) }
```

>_MONGOOSH

```
semester: 'Spring 2023',
enrolledStudents: []
}
> db.students.deleteOne({ _id: 1 });
{
  acknowledged: true,
  deletedCount: 1
}
```

Atlas atlas-jsliew-shard-0 [primary] studentInformation;

MongoDB Compass - akshcluster.9zmqaf.mongodb.net/studentInformation/courses

Connect Edit View Collection Help

akshcluster.9zm...

My Queries studentInformation; students courses

studentInformation > courses

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

EXPLAIN RESET FIND Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 2 of 2

```
{ "_id": 1, "name": "Introduction to Computer Science", "department": "Computer Science", "instructor": "Dr. Jane Smith", "semester": "Fall 2022", "enrolledStudents": Array (empty) }
```

```
{ "_id": 2, "name": "Introduction to Psychology", "department": "Psychology", "instructor": "Dr. Michael Johnson", "semester": "Spring 2023", "enrolledStudents": Array (empty) }
```

>_MONGOOSH

```
{
  _id: 2,
  name: 'Introduction to Psychology',
  department: 'Psychology',
  instructor: 'Dr. Michael Johnson',
  semester: 'Spring 2023',
  enrolledStudents: []
}
```

Atlas atlas-jsliew-shard-0 [primary] studentInformation;