

What is the maximum value in a MongoDB collection?

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The maximum value in a MongoDB collection refers to the highest numerical or alphabetical value present within a specific field in the collection. This value is determined based on the data type and sorting order of the field. It can be accessed through various aggregation functions or by using the sorting feature in MongoDB queries. The maximum value serves as a reference point for analyzing and organizing data in a collection.

MongoDB: Find the Max Value in a Collection

You can use the following methods to find the max value of a field in MongoDB:

Method 1: Return Document that Contains Max Value

```
db.teams.find().sort({"field":-1}).limit(1)
```

This chunk of code sorts every document in the collection in descending order based on a specific field and then returns only the first document.

Method 2: Return Only the Max Value

```
db.teams.find().sort({"field":-1}).limit(1).toArray().map(function(u){return u.field})
```

The following examples show how to use each method with a collection teams with the following documents:

```
db.teams.insertOne({team: "Mavs", position: "Guard",
points: 31})db.teams.insertOne({team: "Spurs",
position: "Guard", points:
22})db.teams.insertOne({team: "Rockets", position:
"Center", points: 19})db.teams.insertOne({team:
"Warriors", position: "Forward", points:
26})db.teams.insertOne({team: "Cavs", position:
"Guard", points: 33})
```

Example 1: Return Document that Contains Max Value

We can use the following code to return the document that contains the max value in the "points" field:

```
db.teams.find().sort({"points":-1}).limit(1)
```

This query returns the following document:

```
{_id: ObjectId("618285361a42e92ac9ccd2c6"),
team: 'Cavs',
position: 'Guard',
points: 33 }
```

This document is returned because it contains the highest value (33) in the "points" field out of all of the

documents.

Example 2: Return Only the Max Value

We can use the following code to return just the max value in the "points" field out of all of the documents:

```
db.teams.find().sort({"points":-1}).limit(1).toArray().map(function(u){return u.points})
```

Notice that only the max value itself (33) is returned instead of the entire document that contains the max value.

Additional Resources

The following tutorials explain how to perform other common operations in MongoDB: