

How can I count the distinct values in a field in MongoDB?

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MongoDB is a popular NoSQL database management system that allows for efficient and flexible storage of data. One common task in database management is to count the distinct values in a particular field. In MongoDB, this can be achieved using the aggregation framework and the \$group operator. The \$group operator allows for grouping documents by a specific field and then applying various aggregate functions, such as \$sum or \$count, to the grouped data. By using the \$group operator along with the \$addToSet operator, which adds unique values to an array, we can count the number of distinct values in a field. This allows for efficient and accurate counting of unique values, providing valuable insights into the data stored in a MongoDB database.

MongoDB: Count Distinct Values in Field

You can use the following methods to count the distinct values in a specific field in MongoDB:

Method 1: Find List of Distinct Values

```
db.collection.distinct('field_name')
```

Method 2: Find Count of Distinct Values

```
db.collection.distinct('field_name').length
```

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: "Mavs", position:  
"Guard", points: 22})db.teams.insertOne({team:
```

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

Example 1: Find List of Distinct Values

We can use the following code to find a list of distinct values in the "team" field:

```
db.teams.distinct('team')
```

This query returns the following result:

The output shows the three distinct team names from all of the documents.

We could also use the following code to find a list of distinct values in the "position" field:

```
db.teams.distinct('position')
```

This query returns the following result:

Example 2: Find Count of Unique Values

We can use the following code to count the number of distinct values in the "team" field:

```
db.teams.distinct('team').length
```

This query returns the following result:

3

This tells us that there are 3 distinct values in the "team" field.

We can also use the following code to count the number of unique values in the "points" field:

```
db.teams.distinct('points').length
```

This query returns the following result:

5

This tells us that there are 5 distinct values in the "points" field.

Note: You can find the complete documentation for the distinct function .

Additional Resources

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

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