

How can I check if a field in MongoDB contains a specific string?

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MongoDB is a popular NoSQL database that stores data in a document format. In order to check if a specific field within a MongoDB document contains a particular string, one can use the "find" command with the "\$regex" operator. This operator allows for the use of regular expressions to match patterns within a string. By using this command and operator, users can efficiently search for and retrieve results that contain the specific string they are looking for within a MongoDB database.

MongoDB: Check if Field Contains a String

You can use the following syntax in MongoDB to check if a certain field contains a specific string:

```
db.collection.findOne({name: {$regex : /string/}})
```

The following examples show how to use this syntax 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: Check if Field Contains String

We can use the following code to check if there is any document that contains the string 'avs' in the team field:

```
db.teams.findOne({team: {$regex : /avs/}})
```

This query returns the following document:

```
{ _id: ObjectId("618050098ffcfe76d07b1da5"),  
  team: 'Mavs',  
  position: 'Guard',  
  points: 31 }
```

Note that the function returns the first document in a collection that satisfies the query criteria.

This means that other teams may also have the string 'avs' in their team name, but the document containing the team name 'Mavs' was simply the first.

Example 2: Check if Field Contains String (Case-Insensitive)

We can also use an `i` after the string to perform a case-insensitive match.

For example, suppose we use the following query:

```
db.teams.findOne({team: {$regex : /AVS/i}})
```

This query also returns the following document:

```
{ _id: ObjectId("618050098ffcfe76d07b1da5"),  
team: 'Mavs',  
position: 'Guard',  
points: 31 }
```

Example 3: Check if Field Contains String (No Result)

If a field does not contain the specific string we searched for, we will simply receive null as a result.

For example, suppose we use the following query:

```
db.teams.findOne({team: {$regex : /ricks/}})
```

This query returns the following result:

null

Since no document contains the string 'ricks' in the team name, we receive null as a result.

Note: You can find the complete documentation for `$regex` .

Additional Resources

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

ARABPSYCHOLOGY.COM