

# How can I find the length of a string in MongoDB?

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## RECOMMENDED CITATION

stats writer (2024). *How can I find the length of a string in MongoDB?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=162256>

To find the length of a string in MongoDB, you can use the `$strLenBytes` operator in a query. This operator returns the number of bytes in a given string, which can be used as an approximation for the string's length in characters. It is important to note that this operator only works on strings and will return an error if used on other data types. Additionally, the length returned may differ based on the encoding used for the string.

## MongoDB: Find Length of String

You can use the following methods to find the length of a string in MongoDB and use this string length in queries:

### Method 1: Find Length of String

```
db.myCollection.aggregate()
```

### Method 2: Find Documents with String Greater than Certain Length

```
db.myCollection.find({  
  "name": { $exists: true },  
  $expr: { $gt: }  
})
```

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

```
db.teams.insertOne({name: "Dallas Mavs", points: 31})
db.teams.insertOne({name: "San Antonio Spurs",
points: 22})
db.teams.insertOne({name: "Houston Rockets", points:
19})
db.teams.insertOne({name: "Boston Celtics", points:
26})
db.teams.insertOne({name: "Cleveland Cavs", points:
33})
```

#### Example 1: Find Length of String

We can use the following code to calculate the length of the string in the "name" field of each document:

```
db.teams.aggregate()
```

This code returns the following results:

```
{ _id: ObjectId("62014eff4cb04b772fd7a93d"),
name: 'Dallas Mavs',
length: 11 }
{ _id: ObjectId("62014eff4cb04b772fd7a93e"),
name: 'San Antonio Spurs',
length: 17 }
```

```
{ _id: ObjectId("62014eff4cb04b772fd7a93f"),  
  name: 'Houston Rockets',  
  length: 15 }  
{ _id: ObjectId("62014eff4cb04b772fd7a940"),  
  name: 'Boston Celtics',  
  length: 14 }  
{ _id: ObjectId("62014eff4cb04b772fd7a941"),  
  name: 'Cleveland Cavs',  
  length: 14 }
```

The length value displays the length of the string in the "name" column.

For example:

The length of the string 'Dallas Mavs' is 11. The length of the string 'San Antonio Spurs' is 17.

And so on.

Note that the length also counts blank spaces.

Example 2: Find Documents with String Greater than Certain Length

We can use the following code to return only the documents where the string in the "name" column is

**greater than 14:**

```
db.teams.find({  
  "name": { $exists: true },  
  $expr: { $gt: }  
})
```

**This query returns the following results:**

```
{ _id: ObjectId("62014eff4cb04b772fd7a93e"),  
  name: 'San Antonio Spurs',  
  points: 22 }  
{ _id: ObjectId("62014eff4cb04b772fd7a93f"),  
  name: 'Houston Rockets',  
  points: 19 }
```

**Notice the the only two teams returned are the ones where the "name" field is greater than a length of 14.**

**Note: You can find the complete documentation for the `$strLenCP` function .**

**Additional Resources**

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