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MongoDB CRUD Operations > Update Documents

# Update Documents

This page provides examples in:

```
MONGO SHELL COMPASS PYTHON JAVA (SYNC) NODE.JS PHP MOTOR

JAVA (ASYNC) C# PERL RUBY SCALA GO
```

This page uses the following mongo shell methods:

```
• db.collection.updateOne(<filter>, <update>, <options>)
```

- db.collection.updateMany(<filter>, <update>, <options>)
- db.collection.replaceOne(<filter>, <update>, <options>)

The examples on this page use the inventory collection. To create and/or populate the inventory collection, run the following:

```
db.inventory.insertMany( [
    { item: "canvas", qty: 100, size: { h: 28, w: 35.5, uom: "cm" }, status: "A" },
    { item: "journal", qty: 25, size: { h: 14, w: 21, uom: "cm" }, status: "A" },
    { item: "mat", qty: 85, size: { h: 27.9, w: 35.5, uom: "cm" }, status: "A" },
    { item: "mousepad", qty: 25, size: { h: 19, w: 22.85, uom: "cm" }, status: "P" },
    { item: "notebook", qty: 50, size: { h: 8.5, w: 11, uom: "in" }, status: "P" },
    { item: "paper", qty: 100, size: { h: 8.5, w: 11, uom: "in" }, status: "D" },
    { item: "planner", qty: 75, size: { h: 22.85, w: 30, uom: "cm" }, status: "D" },
    { item: "sketchbook", qty: 45, size: { h: 10, w: 15.25, uom: "cm" }, status: "A" },
    { item: "sketchbook", qty: 80, size: { h: 14, w: 21, uom: "cm" }, status: "A" },
    { item: "sketch pad", qty: 95, size: { h: 22.85, w: 30.5, uom: "cm" }, status: "A" }
] );
```

You can run the operation in the web shell below:

```
type "help" for help
>> mongo DBt o Documentation [
                                               Search Documentation
       { item: "canvas", qty: 100, size: [ ... __, ... __, ... __, , ... __, , , ... __, ],
       { item: "journal", qty: 25, size: { h: 14, w: 21, uom: "cm" }, status: "A" Full
       { item: "mat", qty: 85, size: { h: 27.9, w: 35.5, uom: "cm" }, status: "A" },
       { item: "mousepad", qty: 25, size: { h: 19, w: 22.85, uom: "cm" }, status:
"P" },
       { item: "notebook", qty: 50, size: { h: 8.5, w: 11, uom: "in" }, status: "Reset
       { item: "paper", qty: 100, size: { h: 8.5, w: 11, uom: "in" }, status: "D" },
       { item: "planner", qty: 75, size: { h: 22.85, w: 30, uom: "cm" }, status: 'dear
       { item: "postcard", qty: 45, size: { h: 10, w: 15.25, uom: "cm" }, status:
. . .
"A" },
       { item: "sketchbook", qty: 80, size: { h: 14, w: 21, uom: "cm" }, status: "A"
. . .
},
>>>
```

# Update Documents in a Collection

To update a document, MongoDB provides update operators, such as \$set, to modify field values.

To use the update operators, pass to the update methods an update document of the form:

```
{
    <update operator>: { <field1>: <value1>, ... },
    <update operator>: { <field2>: <value2>, ... },
    ...
}
```

Some update operators, such as \$set, will create the field if the field does not exist. See the individual update operator reference for details.

#### NOTE:

Starting in MongoDB 4.2, MongoDB can accept an aggregation pipeline to specify the modifications to make instead of an update document. See the method reference page for details.

## Update a Single Document

The following example uses the db.collection mongo DB. Documentation update the *first* document where item equals "pa

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```
db.inventory.updateOne(
    { item: "paper" },
    {
      $set: { "size.uom": "cm", status: "P" },
      $currentDate: { lastModified: true }
    }
)
```

The update operation:

- uses the \$set operator to update the value of the size.uom field to "cm" and the value of the status field to "P".
- uses the \$currentDate operator to update the value of the lastModified field to the current date. If lastModified field does not exist, \$currentDate will create the field. See \$currentDate for details.

## **Update Multiple Documents**

New in version 3.2.

The following example uses the db.collection.updateMany() method on the inventory collection to update all documents where qty is less than 50:

```
db.inventory.updateMany(
    { "qty": { $lt: 50 } },
    {
      $set: { "size.uom": "in", status: "P" },
      $currentDate: { lastModified: true }
    }
)
```

# The update operation: mongo DB. Documentation v

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- uses the \$set operator to update the value of the size.uom field to "in" and the value of the status field to "P",
- uses the \$currentDate operator to update the value of the lastModified field to the current date. If lastModified field does not exist, \$currentDate will create the field. See \$currentDate for details.

# Replace a Document

To replace the entire content of a document except for the \_id field, pass an entirely new document as the second argument to db.collection.replaceOne().

When replacing a document, the replacement document must consist of only field/value pairs; i.e. do not include update operators expressions.

The replacement document can have different fields from the original document. In the replacement document, you can omit the \_id field since the \_id field is immutable; however, if you do include the \_id field, it must have the same value as the current value.

The following example replaces the *first* document from the inventory collection where item: "paper":

# **Behavior**

## **Atomicity**

All write operations in MongoDB are atomic on the level of a single document. For more information on MongoDB and atomicity, see Atomicity and Transactions.

### \_id Field

Once set, you cannot update the value of the \_id mongo DB. Documentation replacement document that has a different \_id fiel

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### Field Order

MongoDB preserves the order of the document fields following write operations *except* for the following cases:

- The \_id field is always the first field in the document.
- Updates that include renaming of field names may result in the reordering of fields in the document.

### **Upsert Option**

If updateOne(), updateMany(), or replaceOne() includes upsert: true and no documents match the specified filter, then the operation creates a new document and inserts it. If there are matching documents, then the operation modifies or replaces the matching document or documents.

For details on the new document created, see the individual reference pages for the methods.

## Write Acknowledgement

With write concerns, you can specify the level of acknowledgement requested from MongoDB for write operations. For details, see Write Concern.

#### SEE ALSO:

- Updates with Aggregation Pipeline
- db.collection.updateOne()
- db.collection.updateMany()
- db.collection.replaceOne()
- Additional Methods