Dot Notation

MongoDB uses the *dot notation* to access the elements of an array and to access the fields of an embedded document.

Arrays

To specify or access an element of an array by the zero-based index position, concatenate the array name with the dot (...) and zero-based index position

• To specify the third element in the contribs array, use the dot notation "contribs.2".

Embedded Documents

To specify or access a field of an embedded document with dot notation, concatenate the embedded document name with the dot (...) and the field name,

- To specify the field named last in the name field, use the dot notation "name.last".
- To specify the number in the phone document in the contact field, use the dot notation "contact.phone.number"

db.collection.remove()

The db.collection.remove() method can have one of two syntaxes. The remove() method can take a query document and an optional just0ne Boolean

Behavior

Write Concern

The remove() method uses the delete command, which uses the default write concern.

To specify a different write concern, include the write concern in the options parameter.

Query Considerations

By default, remove() removes all documents that match the query expression. Specify the justone option to limit the operation to removing a single document. To delete a single document sorted by a specified order, use the findAndModify() method.

When removing multiple documents, the remove operation may interleave with other read and/or write operations to the collection.

Time Series Collections

You cannot use the remove() method on a time series collection.

Sharded Collections

All remove() operations for a sharded collection that specify the just0ne: true option must include the shard key *or* the _id field in the query specification.

remove() operations specifying just0ne: true in a sharded collection which do not contain either the shard key or the _id field return an error.

Remove a Field from a MongoDB Document \$unset

unset

The sunset operator deletes a particular field.

The specified value in the \$unset expression (i.e. "") does not impact the operation.

To specify a <field> in an embedded document or in an array, use dot notation.

Behavior

Starting in MongoDB 5.0, update operators process document fields with string-based names in lexicographic order. Fields with numeric names are processed in numeric order. See <u>Update Operators Behavior</u> for details.

If the field does not exist, then sunset does nothing (i.e. no operation).

When used with \$ to match an array element, \$unset replaces the matching element with null rather than removing the matching element from the array. This behavior keeps consistent the array size and element positions.

Starting in MongoDB 5.0, mongod no longer raises an error when you use an update operator like sunset with an empty operand expression (). An empty update results in no changes and no oplog entry is created (meaning that the operation is a no-op).