Bulk Write Operations in MongoDB



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Bulk Writes



A bulk write is a combination of multiple write operations

- Perhaps ordered

Valid operations

- insertOne
- updateOne
- updateMany
- replaceOne
- deleteOne
- deleteMany

MongoDB API method

- bulkWrite

Return document

- Fields with counts and IDs



Bulk Writes



Options document

- Write concern
- ordered field

The ordered field is a Boolean

- By default ordered is true, and the order of the operations in the array is preserved
- Setting ordered to false will let MongoDB optimize the order for more efficiency



bulkWrite()

```
db.conferences.bulkWrite([
  {"insertOne": {"document": {"title"
    "updateOne": {
      "filter": {"_id": 1}, "update":
  {"deleteOne": {"filter": {"_id": 10}
   { "ordered": false } )
```

```
"acknowledged": true,
"deletedCount": 1,
"insertedCount": 1,
"matchedCount": 1,
"upsertedCount": 0,
"insertedIds": {
  "0": ObjectId("123xyz")
"upsertedIds": { }
```

bulkWrite() with replaceOne

```
db.conferences.bulkWrite([
   "updateOne": {
      "filter": {"_id": 1},
      "replacement": {"title": "MongoDB Conference"}
```



A bulk write is not the same as a bulk import



Demo



Bulk writes



Summary



Bulk writes are a combination of write operations

Operations are represented by documents, not methods

Return document contains counts and ids from all write operations performed

Bulk writes can be order

Bulk writes are different from bulk imports

