

Bulk Write

`bulkWrite()` adalah cara yang sangat efisien untuk menjalankan beberapa operasi tulis (`insert`, `update`, `delete`) dalam satu perintah tunggal. Metode ini secara signifikan meningkatkan performa karena mengurangi jumlah komunikasi bolak-balik antara aplikasi Anda dan server database.

Contoh:

```
db.products.bulkWrite([
  // Operasi 1: Sisipkan dokumen baru
  {
    insertOne: {
      document: { name: "Headset Bluetooth", price: 750000, category:
"Electronics" }
    }
  },
  // Operasi 2: Perbarui satu dokumen
  {
    updateOne: {
      filter: { name: "Mouse Gaming" },
      update: { $set: { price: 475000 } }
    }
  },
  // Operasi 3: Hapus satu dokumen
  {
    deleteOne: {
      filter: { name: "Buku MongoDB" }
    }
  }
]);
```

Contoh Implementasi :

- Sebelum bulkWrite():

products						
	_id ObjectId	name String	price Int32	category String	stock Int32	tags Array
1	ObjectId('684d7ec7beada2d...	"Laptop Pro"	14500000	"Electronics"	30	[] 2 elements
2	ObjectId('684d8db9beada2d...	"Keyboard Mechanical"	850000	"Peripherals"	75	[] 3 elements
3	ObjectId('684d8db9beada2d...	"Webcam HD 1080p"	650000	"Electronics"	90	[] 2 elements
4	ObjectId('684d8db9beada2d...	"Monitor 24 inch"	2500000	"Electronics"	40	[] 2 elements
5	ObjectId('684d8db9beada2d...	"Buku Desain Grafis"	180000	"Books"	120	[] 2 elements
6	ObjectId('684d8db9beada2d...	"Kursi Ergonomis"	1800000	"Furniture"	30	[] 2 elements
7	ObjectId('684d8db9beada2d...	"External SSD 1TB"	1200000	"Storage"	60	[] 3 elements

- Setelah bulkWrite():

```
> db.products.bulkWrite([
  {
    insertOne: {
      document: { name: "Headset Bluetooth", price: 750000, category: "Electronics" }
    },
  },
  {
    updateOne: {
      filter: { name: "Laptop Pro" },
      update: { $set: { price: 45000 } }
    },
  },
  {
    deleteOne: {
      filter: { name: "External SSD 1TB" }
    },
  },
]);
< {
  acknowledged: true,
  insertedCount: 1,
  insertedIds: {
    '0': ObjectId('684d98e4beada2df13484c3e')
  },
  matchedCount: 1,
  modifiedCount: 1,
  deletedCount: 1,
  upsertedCount: 0,
  upsertedIds: {}
}
```

products						
	_id ObjectId	name String	price Int32	category String	stock Int32	tags Array
1	ObjectId('684d7ec7beada2d...	"Laptop Pro"	45000	"Electronics"	30	[] 2 elements
2	ObjectId('684d8db9beada2d...	"Keyboard Mechanical"	850000	"Peripherals"	75	[] 3 elements
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5	ObjectId('684d8db9beada2d...	"Buku Desain Grafis"	180000	"Books"	120	[] 2 elements
6	ObjectId('684d8db9beada2d...	"Kursi Ergonomis"	1800000	"Furniture"	30	[] 2 elements
7	ObjectId('684d98e4beada2d...	"Headset Bluetooth"	750000	"Electronics"	No field	No field