

MongoDB Syntax Guide

MongoDB Compass

Insert Operations

Single Document

```
db.collection.insertOne({  
  "item": "mousepad",  
  "qty": 25,  
  "size": { "h": 19, "w": 22.85, "uom": "cm" },  
  "status": "P"  
});
```

Bulk Documents

```
db.collection.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" }  
]);
```

Query Operations

Find Documents

Select All

```
db.collection.find({});
```

Select Specific Fields

```
db.collection.find({ "status": "A" }, { "item": 1 });
```

Using Conditions

```
db.collection.find({ "status": { "$in": ["A", "D"] } });
```

AND/OR Conditions

```
db.collection.find({ "$and": [ { "status": "A" }, { "qty": { "$lt": 30 } } ] });
```

```
db.collection.find({ "$or": [ { "status": "A" }, { "qty": { "$lt": 30 } } ] });
```

Update Operations

Update One Document

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

Update Multiple Documents

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

Replace a Document

```
db.collection.replaceOne(  
  { "item": "paper" },  
  { "item": "paper", "instock": [ { "warehouse": "A", "qty": 60 } ] }  
);
```

Delete Operations

Delete One Document

```
db.collection.deleteOne({ "status": "D" });
```

Delete Multiple Documents

```
db.collection.deleteMany({ "status": "A" });
```

Delete All Documents

```
db.collection.deleteMany({});
```

MongoShell/Robo 3T Studio Commands

Show Databases

```
show dbs;
```

Insert Operations

```
db.inventory.insertOne({  
  "item": "canvas",  
  "qty": 100,  
  "tags": ["cotton"],  
  "size": { "h": 28, "w": 35.5, "uom": "cm" }  
});
```

```
db.inventory.insertMany([  
  { "item": "journal", "qty": 25, "tags": ["blank", "red"], "size": { "h": 14, "w": 21, "uom": "cm" } },  
  { "item": "mat", "qty": 85, "tags": ["gray"], "size": { "h": 27.9, "w": 35.5, "uom": "cm" } }  
]);
```

Query Examples

Find Based on Condition

```
db.inventory.find({ "item": "canvas" });
```

Select Specific Columns

```
db.inventory.find({ "status": "A" }, { "item": 1, "_id": 0 });
```