

MongoDB CRUD Operations using MongoDB Shell

1. Create Operation

To insert documents into a MongoDB collection:

Insert a single document:

```
db.collection.insertOne({  
    item: "journal",  
    qty: 25,  
    size: { h: 14, w: 21, uom: "cm" },  
    status: "A"  
});
```

Insert multiple documents:

```
db.collection.insertMany([  
    { item: "notebook", qty: 50, size: { h: 8.5, w: 11, uom: "in" }, status: "A" },  
    { item: "paper", qty: 100, size: { h: 8.5, w: 11, uom: "in" }, status: "D" },  
]);
```

2. Read Operation

To query documents from a MongoDB collection:

Find all documents:

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

Find with a filter:

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

Find with projection:

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

3. Update Operation

To update documents in a MongoDB collection:

Update a single document:

```
db.collection.updateOne(  
    { item: "journal" },  
    { $set: { qty: 30 } }  
);
```

Update multiple documents:

```
db.collection.updateMany(  
    { status: "A" },  
    { $set: { status: "Available" } }  
);
```

4. Delete Operation

To delete documents from a MongoDB collection:

Delete a single document:

```
db.collection.deleteOne({ item: "journal" });
```

Delete multiple documents:

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