Query on Embedded/Nested Documents

Query on embedded/nested documents in MongoDB is a way to look up data in documents nested within other documents. For example, if you had a collection of books with a nested document containing the author's details, you could query the collection to find all books written by a certain author. Suppose you had the following documents in a 'books' collection:

Query on Embedded/Nested Documents

```
{
    title: "The Catcher in the Rye",
    author: {
        firstName: "J.D.",
        lastName: "Salinger"
    }
},
{
    title: "To Kill a Mockingbird",
    author: {
        firstName: "Harper",
        lastName: "Lee"
    }
}
```

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```
{
    title: "The Catcher in the Rye",
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        firstName: "J.D.",
        lastName: "Salinger"
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},
{
    title: "To Kill a Mockingbird",
    author: {
        firstName: "Harper",
        lastName: "Lee"
    }
}
```

You could query the collection to find all books written by J.D. Salinger using the following query:

```
db.books.find({"author.firstName": "J.D.",
"author.lastName": "Salinger"})
```

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Query on Embedded/Nested Documents

```
db.inventory.insertMany( [
   { item: "journal", qty: 25, size: { h: 14, w: 21, uom: "cm" }, status: "A" },
   { 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" },
   { item: "planner", qty: 75, size: { h: 22.85, w: 30, uom: "cm" }, status: "D" },
   { item: "postcard", qty: 45, size: { h: 10, w: 15.25, uom: "cm" }, status: "A" }
]);
```

Query on Embedded/Nested Documents

Query 1: Find all documents in the inventory collection where the status is "D".

db.inventory.find({status: "D"})

Query 2: Find all documents in the inventory collection where the size is h: 8.5 and w: 11.

db.inventory.find({size:{h: 8.5, w: 11}})

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Equality matches on the whole embedded document require an exact match of the specified <value> document, including the field order

Query on Embedded/Nested Documents

To specify a query condition on fields in an embedded/nested document, use dot notation ("field.nestedField").

When querying using dot notation, the field and nested field must be inside quotation marks.

Query on Embedded/Nested Documents

```
//1. Find documents with size h between 8 and 20
db.inventory.find({"size.h": {$gt: 12, $lt: 20}})


//2. Find documents with status A and size uom in cm
db.inventory.find({$and: [{status: "A"}, {"size.uom": "cm"}]})
```

Thank You :)

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