

MongoDB Guidelines

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Project Fields to return from query

- [db.collection.find\(\)](#)

```
db.inventory.insertMany( [  
  { item: "journal", status: "A", size: { h: 14, w: 21, uom: "cm" }, instock:  
    [ { warehouse: "A", qty: 5 } ] },  
  { item: "notebook", status: "A", size: { h: 8.5, w: 11, uom: "in" },  
    instock: [ { warehouse: "C", qty: 5 } ] },  
  { item: "paper", status: "D", size: { h: 8.5, w: 11, uom: "in" }, instock: [  
    { warehouse: "A", qty: 60 } ] },  
  { item: "planner", status: "D", size: { h: 22.85, w: 30, uom: "cm" },  
    instock: [ { warehouse: "A", qty: 40 } ] },  
  { item: "postcard", status: "A", size: { h: 10, w: 15.25, uom: "cm" },  
    instock: [ { warehouse: "B", qty: 15 }, { warehouse: "C", qty: 35 } ] }  
]);
```

- db.inventory.find({ status: "A" })

The operation corresponds to the following SQL statement:

SELECT * from inventory WHERE status = "A"

Return the Specified Fields and the _id Field Only

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

The operation corresponds to the following SQL statement:

```
SELECT id, item, status from inventory WHERE  
status = "A"
```

Suppress _id Field

You can remove the _id field from the results by setting its exclusion <field> to 0.

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

The operation corresponds to the following SQL statement:

```
SELECT item, status from inventory WHERE status = "A"
```

Return All But the Excluded Fields

- Instead of listing the fields to return in the matching document, you can use a projection to exclude specific fields.

`db.inventory.find({ status: "A" }, { status: 0, instock: 0 })`

- **NOTE**

With the exception of the `_id` field, you cannot combine inclusion and exclusion statements in projection documents.

\$regex operator

- Provides regular expression capabilities for pattern matching *strings* in queries. MongoDB uses Perl compatible regular expressions (i.e. “PCRE”) version 8.41 with UTF-8 support.

```
{ <field>: { $regex: /pattern/, $options: '<options>' }  
}
```

```
{ <field>: { $regex: 'pattern', $options: '<options>' } }
```

```
{ <field>: { $regex: /pattern/<options> } }
```

\$or operator

- The \$or operator performs a logical OR operation on an array of *two or more* <expressions> and selects the documents that satisfy *at least* one of the <expressions>. The \$or has the following syntax:

{ \$or: [{ <expression1> }, { <expression2> }, ..., { <expressionN> }] }

Example:

db.inventory.find({ \$or: [{ quantity: { \$lt: 20 } }, { price: 10 }] })

References:

- 1) MongoDB Manual