**Find() with mangoDB Examples**

1) Query for All Documents in a Collection

db.restaurants.find()

### 2) Query by a Top Level Field

The following operation finds documents whose borough field equals "Manhattan"

db.restaurants.find( { "borough": "Manhattan" } )

### 3) Query by a Field in an Embedded Document

The following operation specifies an equality condition on thezipcode field in the address embedded document

db.restaurants.find( { "address.zipcode": "10075" } )

### 4) Query by a Field in an Array

The following queries for documents whose grades array contains an embedded document with a field gradeequal to "B".

db.restaurants.find( { "grades.grade": "B" } )

### 5) Exact Match on an Array

Consider an inventory collection that contains the following documents:

{ \_id: 5, type: "food", item: "aaa", ratings: [ 5, 8, 9 ] }

{ \_id: 6, type: "food", item: "bbb", ratings: [ 5, 9 ] }

{ \_id: 7, type: "food", item: "ccc", ratings: [ 9, 5, 8 ] }

The following example queries for all documents where the field ratings is an array that holds exactly three elements, 5, 8, and 9, in this order:

db.inventory.find( { ratings: [ 5, 8, 9 ] } )

The operation returns the following document:

{ "\_id" : 5, "type" : "food", "item" : "aaa", "ratings" : [ 5, 8, 9 ] }

### 6) Match an Array Element

The following example queries for all documents where ratings is an array that contains 5 as one of its elements:

db.inventory.find( { ratings: 5 } )

The operation returns the following documents:

{ "\_id" : 5, "type" : "food", "item" : "aaa", "ratings" : [ 5, 8, 9 ] }

{ "\_id" : 6, "type" : "food", "item" : "bbb", "ratings" : [ 5, 9 ] }

{ "\_id" : 7, "type" : "food", "item" : "ccc", "ratings" : [ 9, 5, 8 ] }

**7) Match a Specific Element of an Array**

Equality matches can specify equality matches for an element at a particular index or position of the array using the [dot notation](https://docs.mongodb.org/manual/reference/glossary/#term-dot-notation).

In the following example, the query uses the [dot notation](https://docs.mongodb.org/manual/reference/glossary/#term-dot-notation) to match all documents where the ratings array contains 5 as the first element:

db.inventory.find( { 'ratings.0': 5 } )

The operation returns the following documents:

{ "\_id" : 5, "type" : "food", "item" : "aaa", "ratings" : [ 5, 8, 9 ] }

{ "\_id" : 6, "type" : "food", "item" : "bbb", "ratings" : [ 5, 9 ] }

**Specify Multiple Criteria for Array Elements**

**Single Element Satisfies the Criteria**

Use [$elemMatch](https://docs.mongodb.org/manual/reference/operator/query/elemMatch/#op._S_elemMatch) operator to specify multiple criteria on the elements of an array such that at least one array element satisfies all the specified criteria.

The following example queries for documents where the ratings array contains at least one element that is greater than ([$gt](https://docs.mongodb.org/manual/reference/operator/query/gt/#op._S_gt)) 5 and less than ([$lt](https://docs.mongodb.org/manual/reference/operator/query/lt/#op._S_lt)) 9:

db.inventory.find( { ratings: { $elemMatch: { $gt: 5, $lt: 9 } } } )

The operation returns the following documents, whose ratings array contains the element 8 which meets the criteria:

{ "\_id" : 5, "type" : "food", "item" : "aaa", "ratings" : [ 5, 8, 9 ] }

{ "\_id" : 7, "type" : "food", "item" : "ccc", "ratings" : [ 9, 5, 8 ] }

**Combination of Elements Satisfies the Criteria**

The following example queries for documents where the ratings array contains elements that in some combination satisfy the query conditions; e.g., one element can satisfy the greater than 5 condition and another element can satisfy the less than 9 condition, or a single element can satisfy both:

db.inventory.find( { ratings: { $gt: 5, $lt: 9 } } )

The operation returns the following documents:

{ "\_id" : 5, "type" : "food", "item" : "aaa", "ratings" : [ 5, 8, 9 ] }

{ "\_id" : 6, "type" : "food", "item" : "bbb", "ratings" : [ 5, 9 ] }

{ "\_id" : 7, "type" : "food", "item" : "ccc", "ratings" : [ 9, 5, 8 ] }

The document with the "ratings" : [ 5, 9 ] matches the query since the element 9 is greater than 5(the first condition) and the element 5 is less than 9 (the second condition).