Queries

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Introduction

Retrieve Documents

SEARCH

Model Methods:

find findByld findOne where

Updating & Removing Documents

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Documents and Their Helper Methods



Model.find(conditions, [fields], [options], [callback])

```
var Standup = require('../models/standup.server.model.js');
// No callback... Deferred execution
var query = Standup.find();
// With callback... Executes guery immediately
Standup.find(function (err, results) {
    // handle the error... Or results here
});
// With callback and query conditions
Standup.find({ memberName: 'David' }, function (err, results) {
    // handle the error... Or results here
});
// Limit the returned fields...
Standup.find({ memberName: 'Mary' }, 'memberName impediment',
  function (err, results) {
        // handle the error... Or results here
});
```

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Model.findOne(conditions, [fields], [options], [callback])

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Model.findById(id, [fields], [options], [callback])

```
var id = '541c6fefefdf9c84172162a6';
var Standup = require('../models/standup.server.model.js');

// By Id... No conditions...
var query = Standup.findById(id);
query.exec(function (err, doc) {
    // handle the error... Or results here
});

// Same as above... Chained method calls...
Standup.findById(id).exec(function (err, results) { ... });

// By Id... Return every field BUT impediment...
var query = Standup.findById(id, '-impediment');
```

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Comparison Query Operators



```
$gt greater than
$gte greater than or equal to
$in exists in
$It less than
$Ite less than or equal to
$ne not equal to
$nin does not exist
```

These are the same as found in MongoDB

```
// Example: find customers with discount >= 10%...
Customer.find({discount: {$gte: 10}, function(err, results) {
   if (err) throw err;
   console.log(results);
});
```

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Model.where(path, [val])

```
Customer.find({discount: {$gte: 10, $lt: 20}, function(err, results) {
    if (err) throw err;
    console.log(results);
});
Customer.where('discount').gte(10).lt(20).exec(function(err, results) {
    if (err) throw err;
    console.log(results);
});
// Chain where methods together...
Customer.where('discount').gte(10).lt(20)
        .where('zipCode', '12345')
        .exec(function(err, results) {
             if (err) throw err;
             console.log(results);
        });
```

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Updating and Removing Documents

Update

Remove

findByldAndUpdate

findByldAndRemove

```
Standup.findById(id).exec(function (err, doc) {
    // handle any errors
    if (err) return errorHandler(err);

    // update the found document
    doc.impediment('None');
    doc.save(function (err) {
        if (err) return errorHandler(err);
        console.log('Document updated');
    });
});
```

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Model.update(conditions, update, [options], [callback])

```
var Standup = require('../models/standup.server.model.js');
var condition = { memberName: 'Mary' };
var update = { impediment: 'None - Mary no longer works here!' };
Standup.update(condition, update, function(err, numberAffected, rawResponse) {
    // Handle error or raw results here...
});
// finding a document - then updating it...
Standup.findOne({ memberName: 'Mary' }, function(err, doc) {
    // Handle errors here... Validate document results... Etc.
    doc.impediment = 'None - Mary won the lottery and is on an island now';
    doc.save(function (err) {
        // Handle errors
    });
});
```

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Model.update(conditions, update, [options], [callback])

Option	Description	Default Value
safe	Safe mode – default to value set in schema	True
upsert	Create the document if it does not match	False
multi	Determines if multiple documents should be updated or not	False
strict	Override the strict option for this update	
overwrite	Disables the update-only mode to allow for overwrite of document	False

```
// Example: update multiple documents that match condition
var condition = { firstName: 'Bob' };
var update = { firstName: 'Robert' };

Customer.update(condition, update, { multi: true },
function(err, numberAffected, raw) {
    // Handle error, returned # affected, and raw response from MongoDB...
});
```

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Model.remove(conditions, [callback])

```
var Standup = require('../models/standup.server.model.js');
var condition = { memberName: 'Mary' };
Standup.remove(condition, function(err) {
    // Handle error here...
});
// Remove any document created on or after Halloween day
var gteDate = new Date(2014, 10, 31);
Standup.remove({ createdOn: { $gte: gteDate }}, function (err) {
    // Handle error here...
});
// Execute query w/o a callback function - does not wait on response
var query = Standup.remove({ createdOn: { $gte: gteDate }});
query.exec();
```

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Model.findByIdAndUpdate(id, update, [options], [callback])

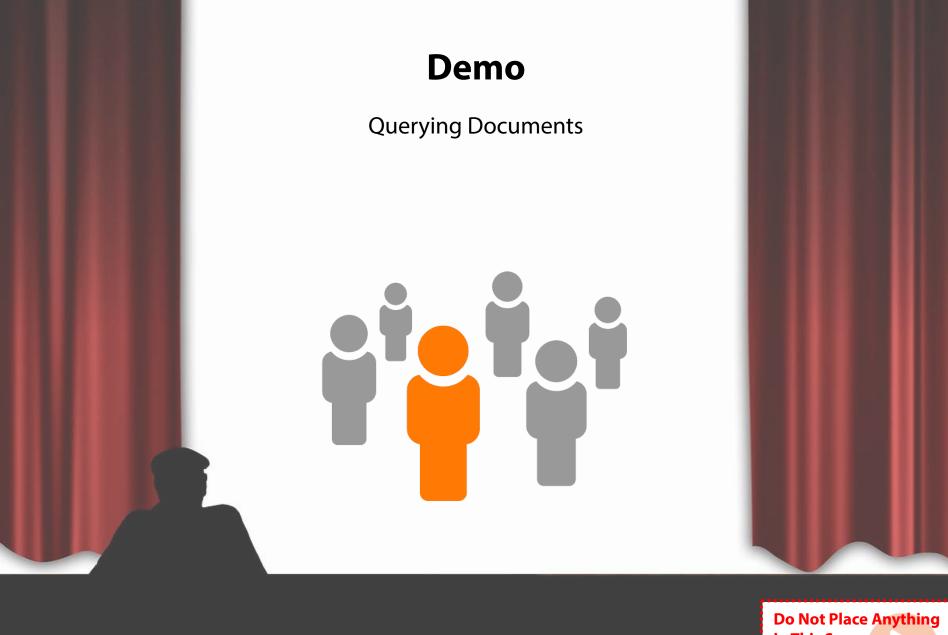
Option	Description	Default Value
new	Set to true to return the modified document rather than the original.	True
upsert	Create the document if it does not match	False
select	Specify the document fields to return	

Model.findByldAndRemove(id, [options], [callback])

Option	Description	Default Value
select	Specify the document fields to return	

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