# Schema Design

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# All data in one collection?

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Multiple collections



How do I handle "null" fields?

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Mo	ongo

Are timestamps free in mongodb?

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Factory

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How can I enforce constraints?

### Working with constraints

### Supported from 3.2



### This will work

db.employees.insert({"name":"Ramesh",

"email":"rsannareddy@gmail.com","gender":"Male"})

### This won't

db.employees.insert({"name":"Ramesh",

"email":"rsannareddy@yahoo.com","gender":"Male"})



Mongo Factory

Are transactions supported?

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Are joins supported?

# Link when you must

Embed when you can



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What is the max size of a doc?

# 16MB

### One of the biggest books ever written

Fits in

One

document





Can I limit the size of a collection?

### **Capped collections**

Create a collection called log whose max size is 1MB

db.createCollection("log",{capped:true,size:1000000})



## **Capped collections**

Create a collection called log which can store max 500 docs

db.createCollection("log",{capped:true,size:1000000,max:500})



### Can I create views?

Yes from version 3.4

MongoDB supports read only views



### **Create a View**

Given a collection employee with the following documents:

```
{FirstName : 'Byomkesh', LastName: 'Bakshy', position : 'CFO', wage : 180000.00 },
{FirstName : 'Sherlock', LastName: 'Holmes', position : 'CTO', wage : 210000.00 },
{FirstName : 'Ramesh', LastName: 'Sannareddy', position : 'COO', wage : 180000.00 }
```

Create a view called employee\_names that shows only full names:

```
db.createView(
    'employee_names',
    'employee',
    [{ $project : { _id : 0,
        "fullname" : {$concat : ["$FirstName", " ", "$LastName"]}}}]
    )
```

### **Querying a View**

The following read operations can support views:

- db.collection.find()
- db.collection.findOne()
- db.collection.aggregate()
- db.collection.countDocuments()
- db.collection.estimatedDocumentCount()
- db.collection.count()
- db.collection.distinct()



# **Querying a View - Example**

db.employee\_names.find()

