



Stop! Don't make these
mistakes in your
document database!

@Lauren_Schaefer





Learn about and
prevent schema design
anti-patterns.



Massive arrays

Massive number of
collections

4

Schema Design Anti-Patterns

Unnecessary indexes

Separating data that is
accessed together



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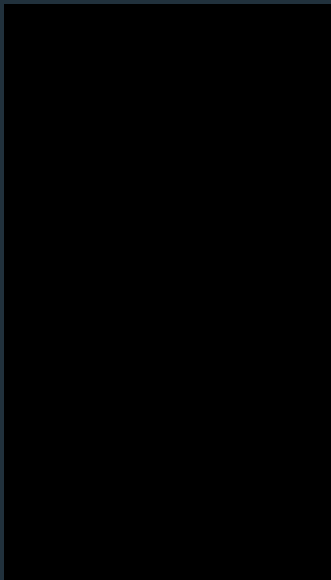




@Lauren_Schaefer

Developer Advocate, MongoDB





@Lauren_Schaefer

Developer Advocate, MongoDB



Document

```
{  
  first_name: "Lauren",  
  last_name: "Schaefer",  
  tik_tok: "Lauren_Schaefer"  
}
```



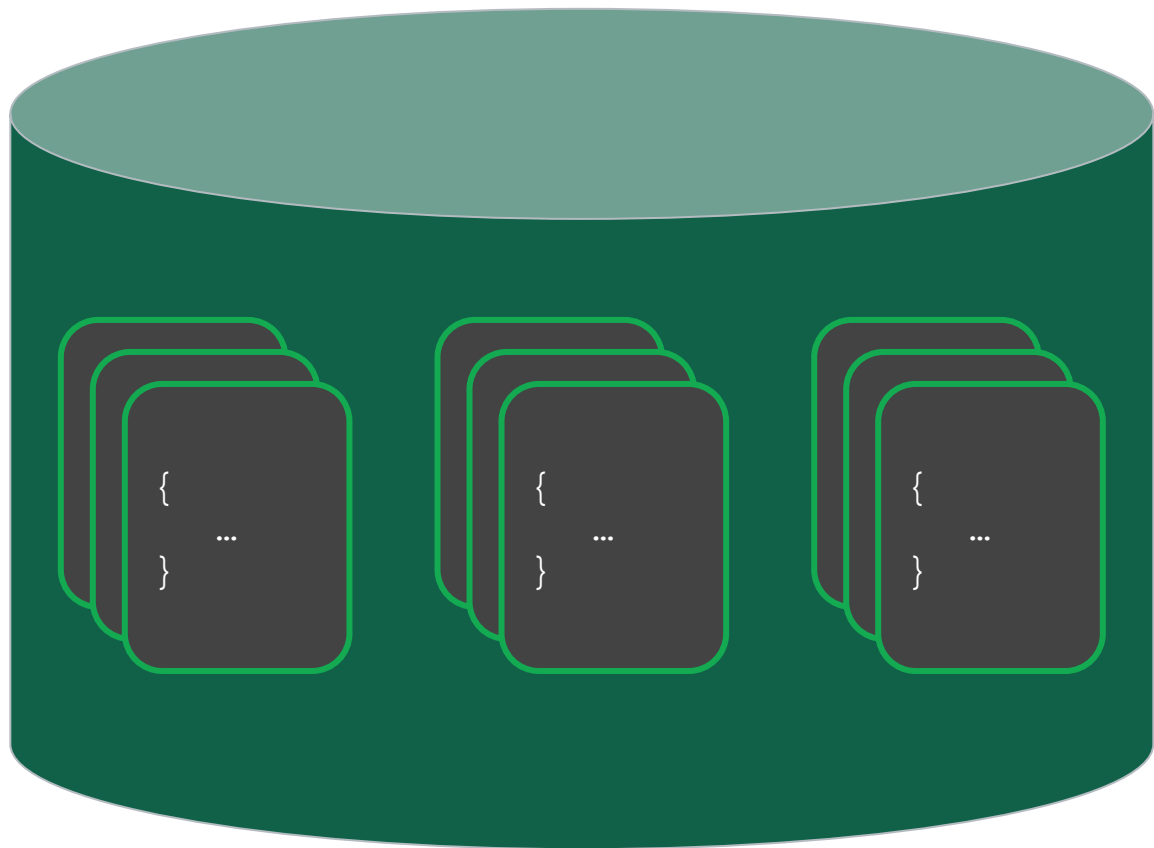
Collection

Users

```
{  
  first_name: "Lauren",  
  last_name: "Schaefer",  
  tik_tok: "Lauren_Schaefer"  
}
```



Database



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Schema Design Anti-Patterns

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Separating data that is
accessed together



Data that is accessed together should be stored together.



Massive Arrays

```
{  
  a: "b",  
  c: "d",  
  e: {  
    f: "g",  
    h: "i"  
  },  
  j: ["k", "l", "m"]  
}
```



Massive Arrays

```
{  
  a: "b",  
  c: "d",  
  e: {  
    f: "g",  
    h: "i"  
  },  
  j: ["k", "l", "m"]  
}
```



Massive Arrays

```
{  
  a: "b",  
  c: "d",  
  e: {  
    f: "g",  
    h: "i"  
  },  
  j: ["k", "l", "m"]  
}
```



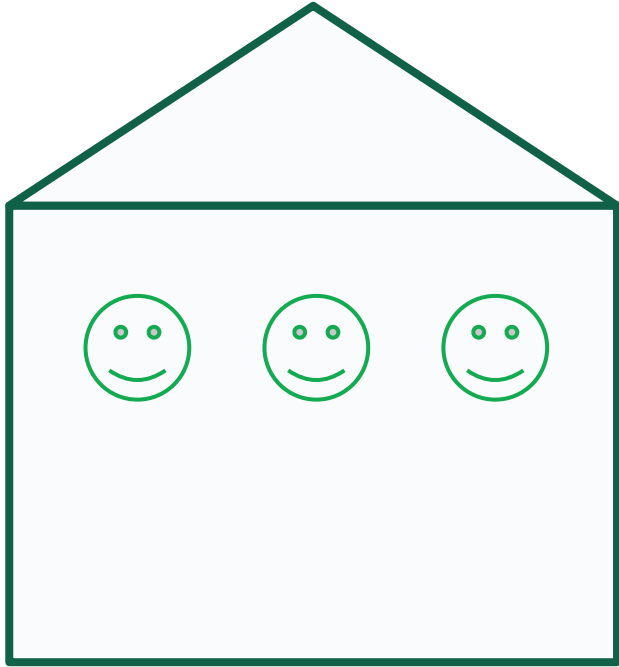
The Problem

- May exceed document size limits
- Index performance on arrays decreases as array size increases





Massive Arrays

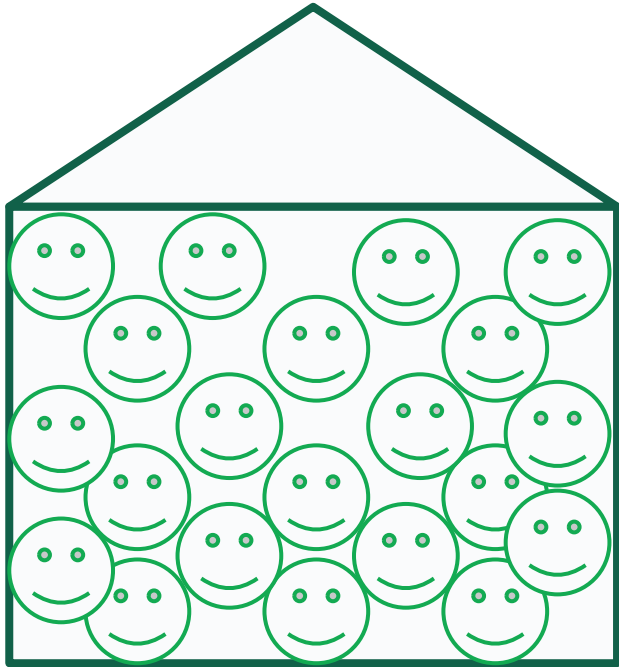


Buildings

```
{
  "_id": "city_hall",
  "name": "City Hall",
  "city": "Pawnee",
  "state": "IN",
  "employees": [
    {
      "_id": 123456789,
      "first": "Leslie",
      "last": "Yepp",
      "cell": "8125552344",
      "start-year": "2004"
    },
    {
      "_id": 234567890,
      "first": "Ron",
      "last": "Swandaughter",
      "cell": "8125559347",
      "start-year": "2002"
    }
  ]
}
```



Massive Arrays



Buildings

```
{
  "_id": "city_hall",
  "name": "City Hall",
  "city": "Pawnee",
  "state": "IN",
  "employees": [
    {
      "_id": 123456789,
      "first": "Leslie",
      "last": "Yepp",
      "cell": "8125552344",
      "start-year": "2004"
    },
    {
      "_id": 234567890,
      "first": "Ron",
      "last": "Swandaughter",
      "cell": "8125559347",
      "start-year": "2002"
    },
    {
      "_id": 345678901,
      "first": "Andy",
      "last": "Fryer",
      "cell": "8125552341",
```



Massive Arrays



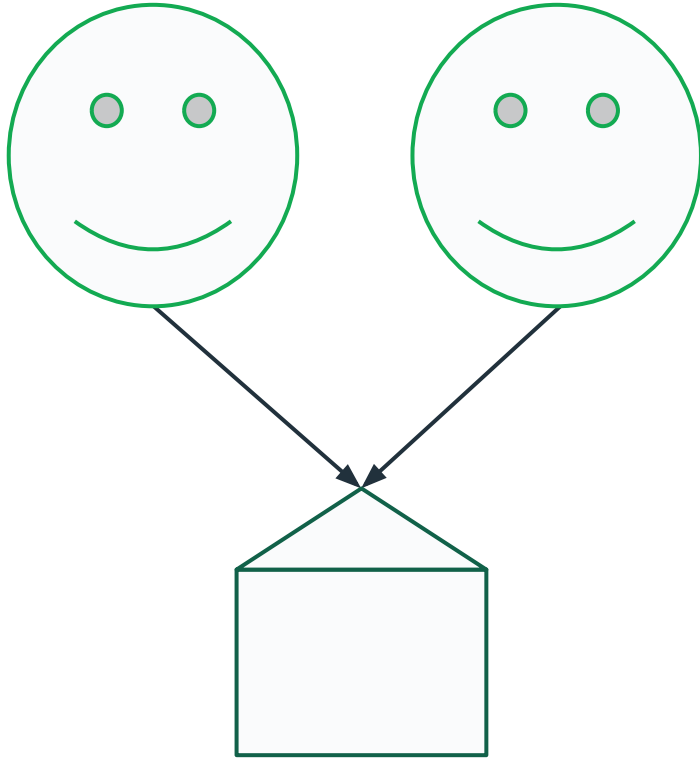
Employees

```
{  
  "_id": 123456789,  
  "first": "Leslie",  
  "last": "Yepp",  
  "cell": "8125552344",  
  "start-year": "2004",  
  "building": {  
    "_id": "city_hall",  
    "name": "City Hall",  
    "city": "Pawnee",  
    "state": "IN"  
  }  
}
```

```
{  
  "_id": 234567890,  
  "first": "Ron",  
  "last": "Swandaughter",  
  "cell": "8125559347",  
  "start-year": "2002",  
  "building": {  
    "_id": "city_hall",  
    "name": "City Hall",  
    "city": "Pawnee",  
    "state": "IN"  
  }  
}
```



Massive Arrays



Employees

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{  
  "_id": 123456789,  
  "first": "Leslie",  
  "last": "Yepp",  
  "cell": "8125552344",  
  "start-year": "2004",  
  "building_id": "city_hall"  
}
```

```
{  
  "_id": 234567890,  
  "first": "Ron",  
  "last": "Swandaughter",  
  "cell": "8125559347",  
  "start-year": "2002",  
  "building_id": "city_hall"  
}
```

Buildings

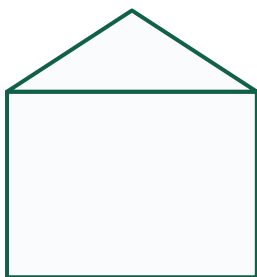
```
{  
  "_id": "city_hall",  
  "name": "City Hall",  
  "city": "Pawnee",  
  "state": "IN"  
}
```



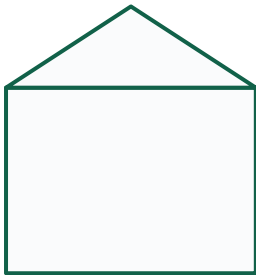
The extended reference pattern



Massive Arrays



Massive Arrays



Employees

```
{
  "_id": 123456789,
  "first": "Leslie",
  "last": "Yepp",
  "cell": "8125552344",
  "start-year": "2004",
  "building": {
    "name": "City Hall",
    "state": "IN"
  }
}
```

```
{
  "_id": 234567890,
  "first": "Ron",
  "last": "Swandaughter",
  "cell": "8125559347",
  "start-year": "2002",
  "building": {
    "name": "City Hall",
    "state": "IN"
  }
}
```

Buildings

```
{
  "_id": "city_hall",
  "name": "City Hall",
  "city": "Pawnee",
  "state": "IN"
}
```



Summary



Summary

- Do: Store information together that you'll be frequently querying together



Summary

- Do: Store information together that you'll be frequently querying together
- Don't: Store information in massive, unbounded arrays



Massive arrays

Massive number of
collections

4

Schema Design Anti-Patterns

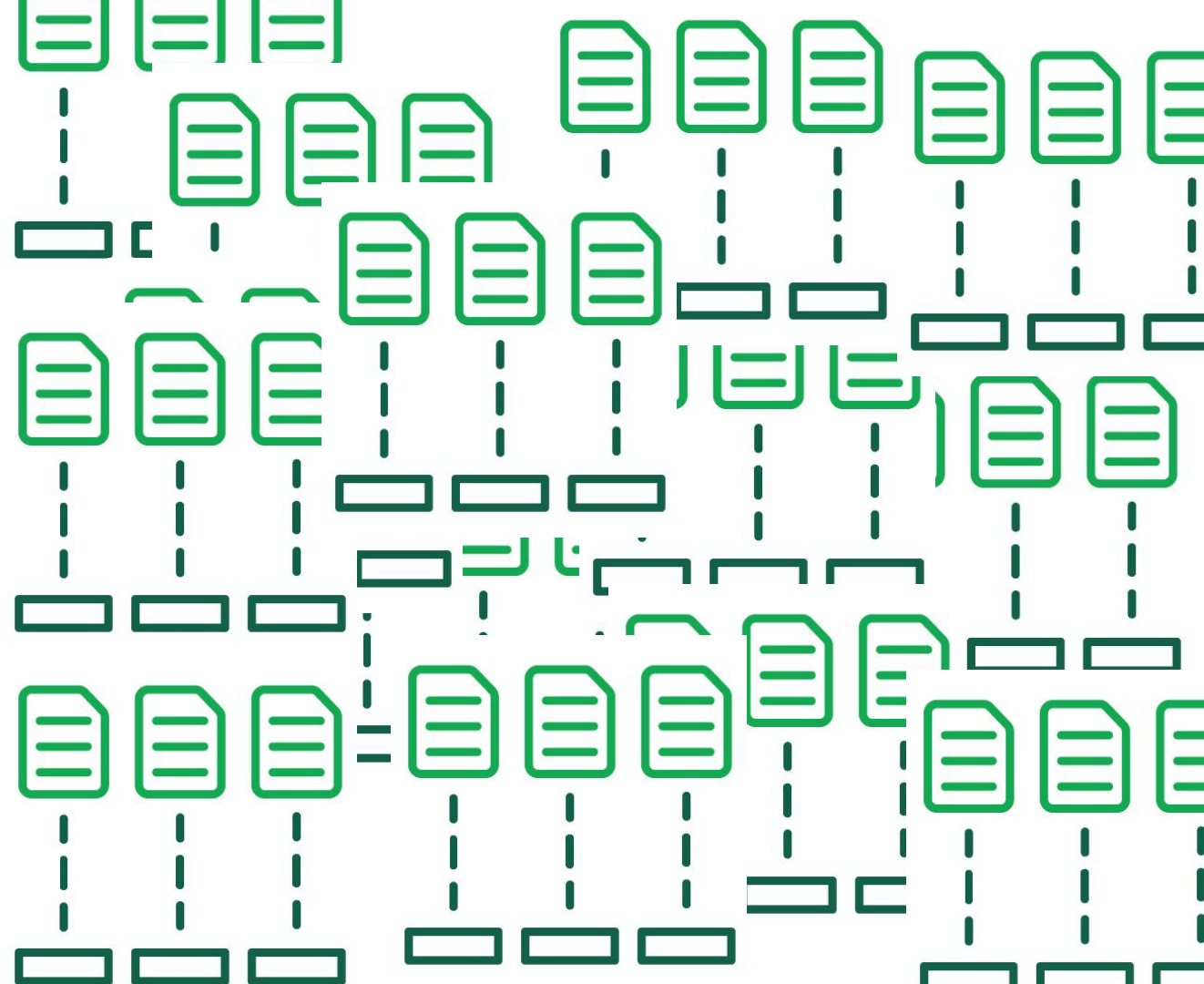
Unnecessary indexes

Separating data that is
accessed together



Massive Number of Collections

The Problem



Massive Number of Collections



Massive Number of Collections



Massive Number of Collections

riverstats

DATABASE SIZE: 5.2GB INDEX SIZE: 1.07GB TOTAL COLLECTIONS: 365

riverstats-v2

DATABASE SIZE: 3.07GB INDEX SIZE: 27.45MB TOTAL COLLECTIONS: 1



Massive Number of Collections



Collections To Drop

- Empty collections
- Collections whose size is mostly indexes



Summary



Summary

- Don't: create a massive number of collections



Massive arrays

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Schema Design Anti-Patterns

Unnecessary indexes

Separating data that is
accessed together

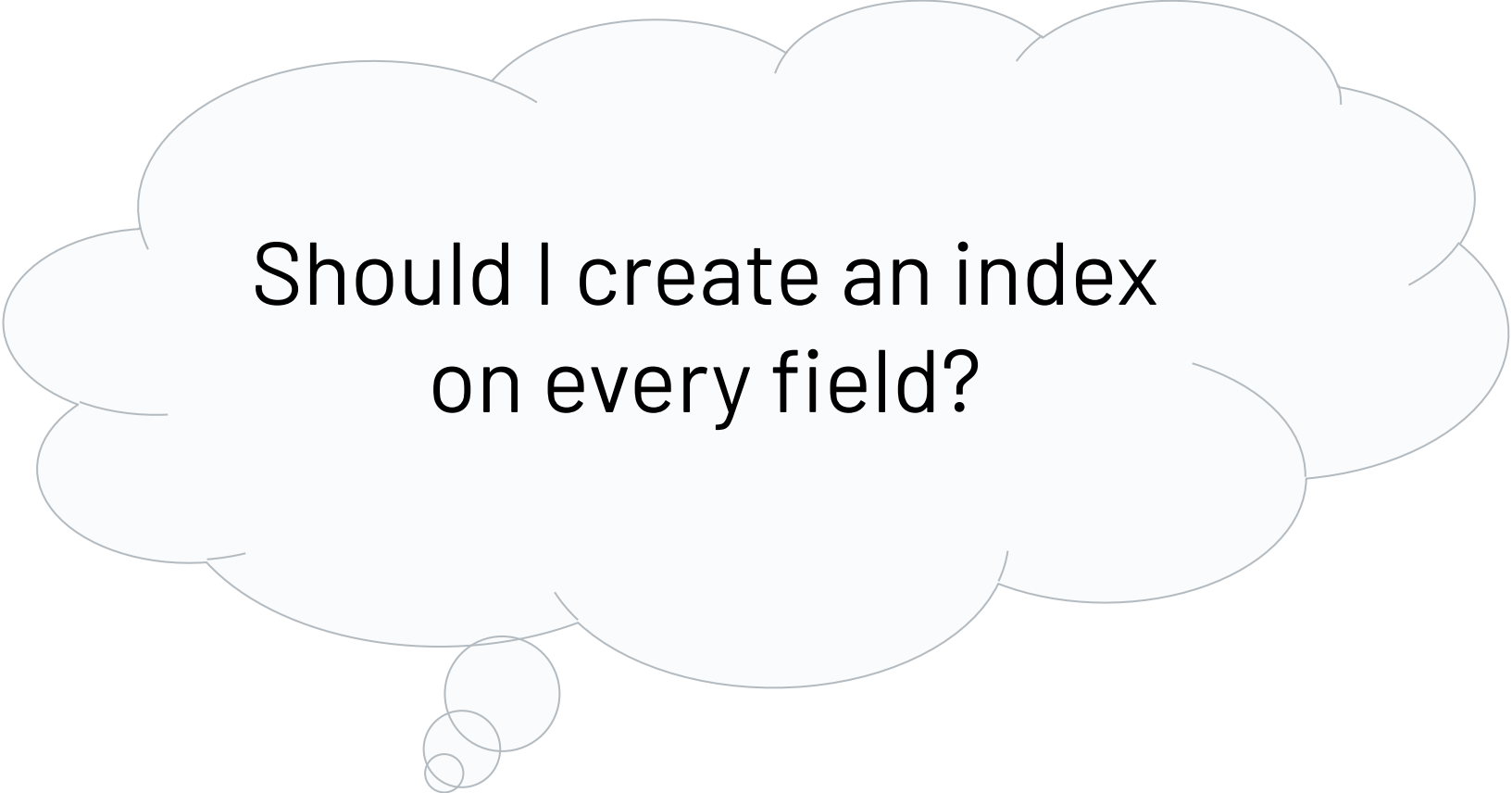


Indexes are good.



Indexes are good.





Should I create an index
on every field?



Unnecessary Indexes

No.



The Problem

- Indexes take up space
- Indexes can negatively impact write performance



Indexes to Drop

- Rarely used indexes
- Redundant indexes



Inspirational Women of the World

Search for your favorite inspirational woman!

Full name:

Search

Last name:

Search

Hobbies:

- ☐ Boating
- ☐ Playing musical instruments
- ☐ Reading
- ☐ Tennis
- ☐ Writing
- ☐ Video games
- ☐ Visiting Li'l Sebastian

Search





**I wonder if I'm
gonna make it
awesome...**





Summary



Summary

- Do: Create indexes that support frequent queries



Summary

- Do: Create indexes that support frequent queries
- Don't: Create unnecessary indexes



Massive arrays

Massive number of
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Schema Design Anti-Patterns

Unnecessary indexes

Separating data that is
accessed together



The Problem

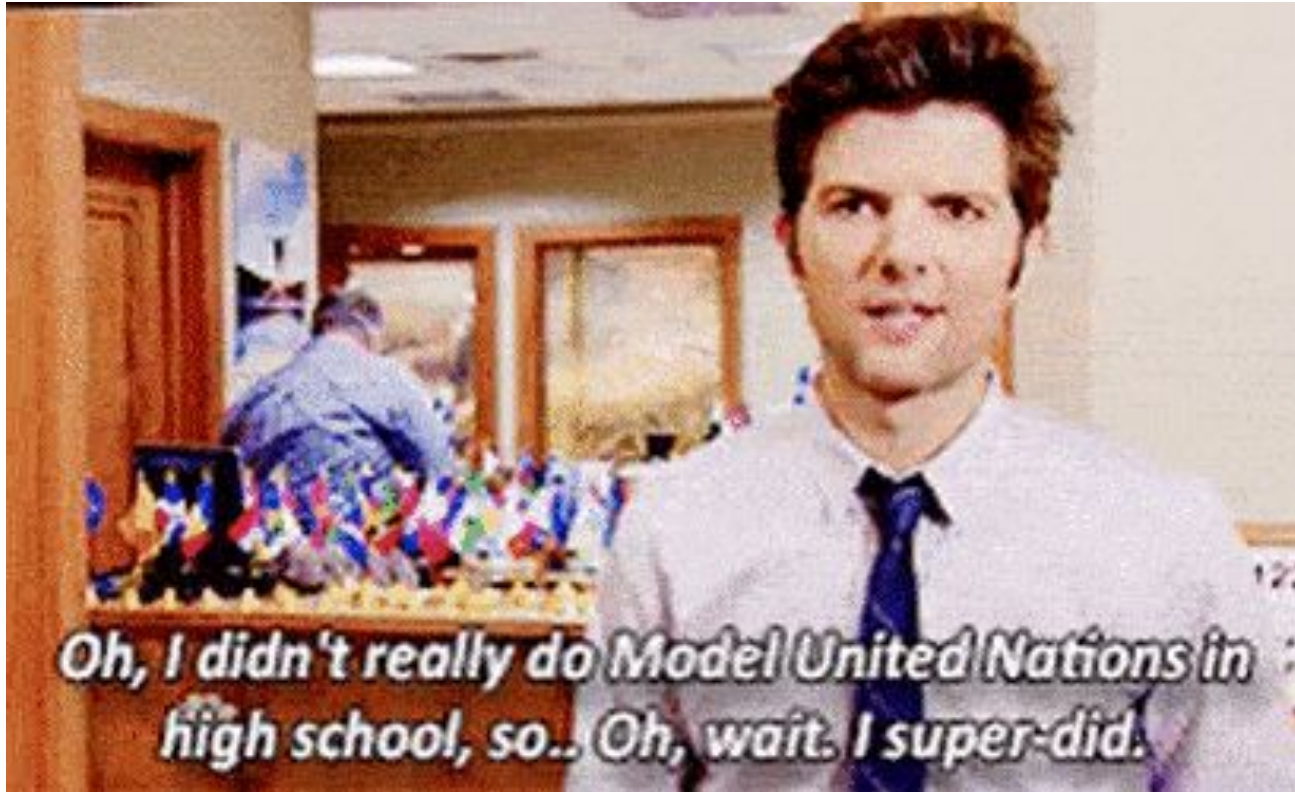
- Not all document databases support joins
- Joins can be slow and resource-intensive



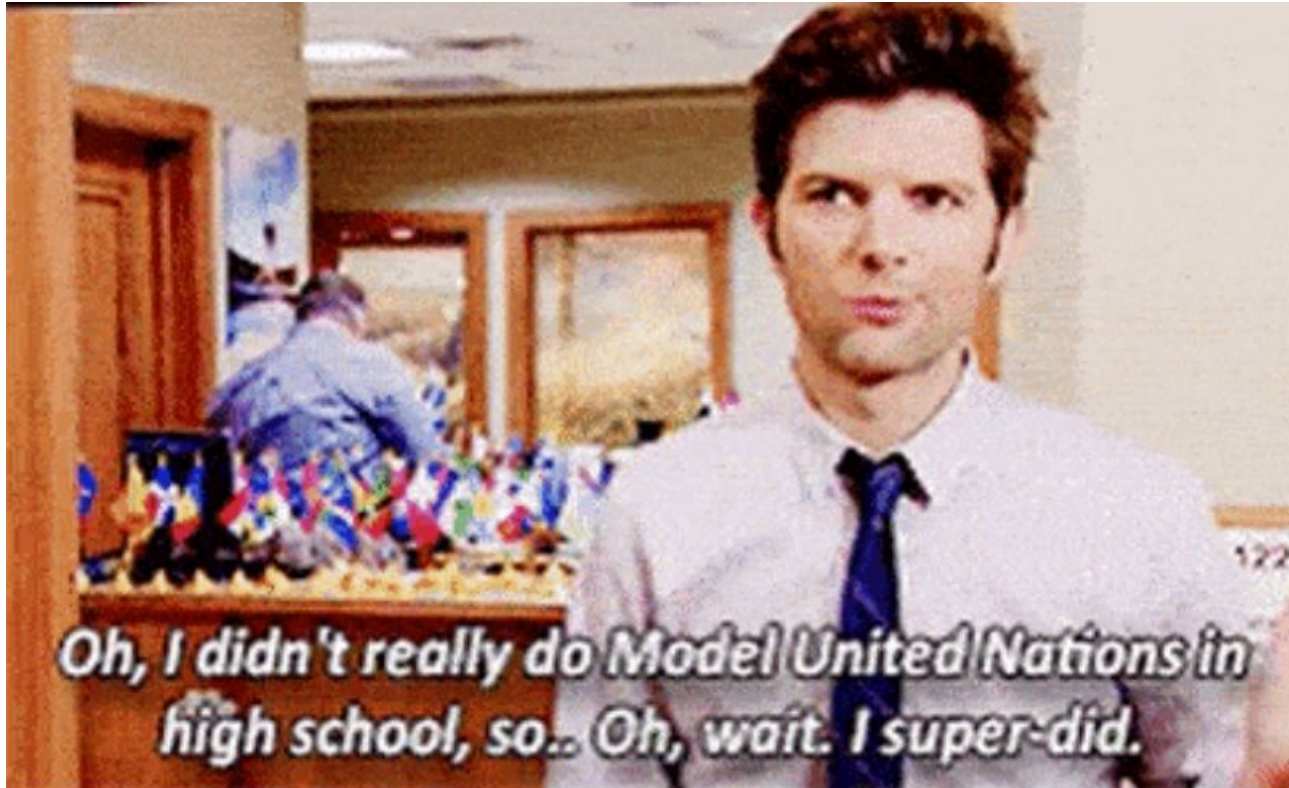
Data that is accessed together should be stored together.



Separating Data That is Accessed Together

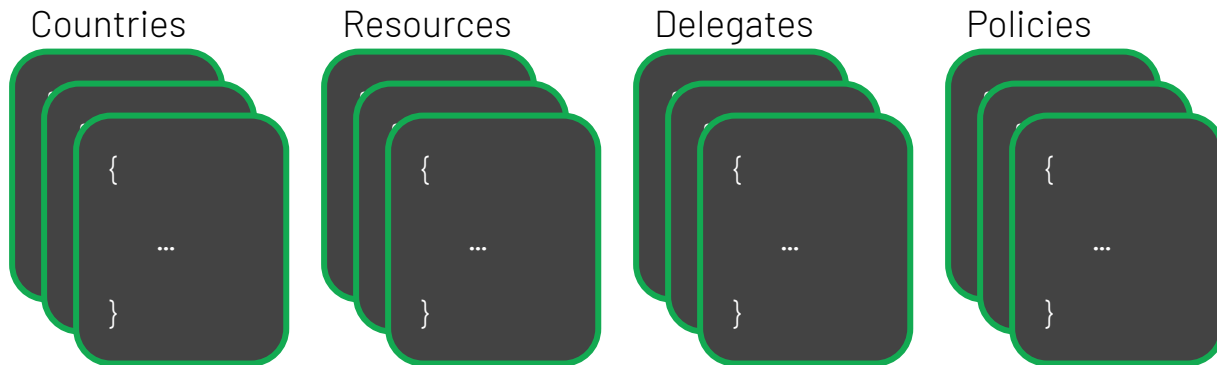


Separating Data That is Accessed Together



Data to store

- Basic stats about each country
- List of resources that each country has available to trade
- List of delegates for each country
- Policy statements for each country



Country Report

- Basic stats
- Resources available to trade
- Delegates
- Names and dates of last five policy documents



Separating Data That is Accessed Together



Separating Data That is Accessed Together



Separating Data That is Accessed Together



Separating Data That is Accessed Together

Countries

```
{
  "_id": "finland",
  "official_name": "Republic of Finland",
  "capital": "Helsinki",
  "languages": [
    "Finnish",
    "Swedish",
    "Sámi"
  ],
  "population": 5528737
}
```

Resources

```
{
  "_id": ObjectId("5ef0feeb0d9314ac117d2034"),
  "country_id": "finland",
  "lions": 32563,
  "military_personnel": 0,
  "pulp": 0,
  "paper": 0
}
```

Delegates

```
{
  {
    "_id": ObjectId("5ef0ff710d9314ac117d2036"),
    "country_id": "finland",
    "first_name": "Donna",
    "last_name": "Beagle"
  }
}
```

Policies

```
{
  "_id": ObjectId("5ef34ec43e5f7febbd3ed7fb"),
  "date-created":
    ISODate("2011-11-09T04:00:00.000+00:00"),
  "status": "draft",
  "title": "Country Defense Policy",
  "country_id": "finland",
  "policy": "Finland has formally decided to
    use lions in lieu of military for all
    self defense..."
}
```

Country Report

- Basic stats
- Resources available to trade
- Delegates
- Names and dates of last five policy documents



Separating Data That is Accessed Together

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{
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    "Swedish",
    "Sámi"
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  "population": 5528737
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```

Resources

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{
  "_id": ObjectId("5ef0feeb0d9314ac117d2034"),
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    "lions": 32563,
    "military_personnel": 0,
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  }
}
```

```
{
  "_id": "5ef05514ac117d2034",
  "country_id": "finland",
  "lions": 32563,
  "military_personnel": 0,
  "pulp": 0,
  "paper": 0
}
```

Delegates

```
{
  {
    "_id": ObjectId("5ef0ff710d9314ac117d2036"),
    "country_id": "finland",
    "first_name": "Donna",
    "last_name": "Beagle"
  }
}
```

Policies

```
{
  {
    "_id": ObjectId("5ef34ec43e5f7febbd3ed7fb"),
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Separating Data That is Accessed Together

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Separating Data That is Accessed Together

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    "pulp": 0,
    "paper": 0
  },
  "delegates": [
    {
      "first_name": "Andy",
      "last_name": "Fryer"
    },
    {
      "first_name": "Donna",
      "last_name": "Beagle"
    }
  ]
}
```

Delegates

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{
  {
    "_id": ObjectId("5ef0ff710d9314ac117d2036"),
    "country_id": "finland",
    "first_name": "Donna",
    "last_name": "Beagle"
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    "status": "draft",
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  "resources": {
    "lions": 32563,
    "military_personnel": 0,
    "pulp": 0,
    "paper": 0
  },
  "delegates": [
    ...
  ],
  "recent-policies": [
    {
      "_id": ObjectId("5ef34ec43e5f7febbd3ed7fb"),
      "date-created":
        ISODate("2011-11-09T04:00:00.000+00:00"),
      "title": "Country Defense Policy"
    },
    {
      "_id": ObjectId("5ef357bb3e5f7febbd3ed7fd"),
      "date-created":
        ISODate("2011-11-10T04:00:00.000+00:00"),
      "title": "Humanitarian Food Policy"
    }
  ]
}
```

Policies

```
{
  "_id": ObjectId("5ef34ec43e5f7febbd3ed7fb"),
  "date-created":
    ISODate("2011-11-09T04:00:00.000+00:00"),
  "status": "draft",
  "title": "Country Defense Policy",
  "country_id": "finland",
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  ],
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      "title": "Country Defense Policy"
    },
    {
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    }
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Separating Data That is Accessed Together

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  "languages": [
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  ],
  "population": 5528737,
  "resources": {
    ...
  },
  "delegates": [
    ...
  ],
  "recent-policies": [
    ...
  ],
  "events": [
    {
      "event-id": ObjectId("5ef34faa3e5f7febbd3ed7fc"),
      "event-date":
        ISODate("2011-11-10T05:00:00.000+00:00"),
      "topic": "Global Food Crisis"
    },
    {
      "event-id": ObjectId("5ef35ac93e5f7febbd3ed7fe"),
      "event-date":
        ISODate("2012-02-18T05:00:00.000+00:00"),
      "topic": "Pandemic"
    }
  ]
}
```

Policies

```
{
  "_id": ObjectId("5ef34ec43e5f7febbd3ed7fb"),
  "date-created":
    ISODate("2011-11-09T04:00:00.000+00:00"),
  "status": "draft",
  "title": "Country Defense Policy",
  "country_id": "finland",
  "policy": "Finland has formally decided to
    use lions in lieu of military for all
    self defense..."
}
```

Summary



Summary

- Do: Carefully consider your use case as you design your schema



Summary

- Do: Carefully consider your use case as you design your schema
- Don't: Separate data that is accessed together



Massive arrays

Massive number of
collections

4

Schema Design Anti-Patterns

Unnecessary indexes

Separating data that is
accessed together



Massive arrays

Massive number of
collections



Unnecessary indexes

Separating data that is
accessed together



Massive arrays

Massive number of
collections



Unnecessary indexes

Separating data that is
accessed together



Massive arrays

Massive number of
collections



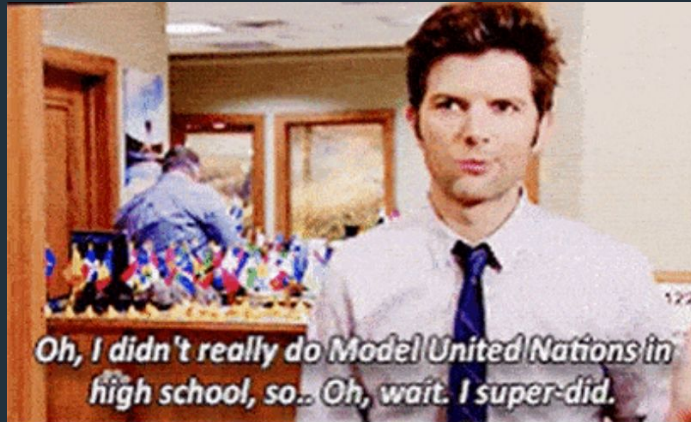
Unnecessary indexes

Separating data that is
accessed together



Massive arrays

Massive number of
collections



Unnecessary indexes

Separating data that is
accessed together



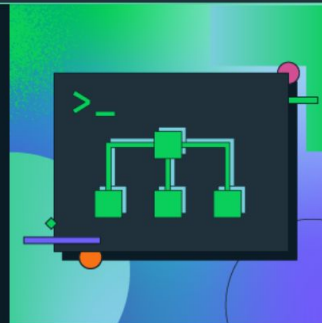
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A Summary of Schema Design Anti-Patterns and How to Spot Them

Published: Jul 14, 2020

[MONGODB](#)
[SCHEMA DESIGN](#)


By Lauren Schaefer and Daniel Coupal



We've reached the final post in this series on MongoDB schema design anti-patterns. You're an expert now, right? We hope so. But don't worry—even if you fall into the trap of accidentally implementing an anti-pattern, [MongoDB Atlas](#) can help you identify it.



The Anti-Patterns

Below is a brief description of each of the schema design anti-patterns we've covered in this series.

- **Massive arrays:** storing massive, unbounded arrays in your documents.
- **Massive number of collections:** storing a massive number of collections (especially if they are unused or unnecessary) in your database.
- **Unnecessary indexes:** storing an index that is unnecessary because it is (1) rarely used if at all or (2) redundant because another compound index covers it.
- **Bloated documents:** storing large amounts of data together in a document when that data is not frequently accessed together.
- **Separating data that is accessed together:** separating data between different documents and collections that is frequently accessed together.
- **Case-insensitive queries without case-insensitive indexes:** frequently executing a case-insensitive query without having a case-insensitive index to cover it.



Building with Patterns: A Summary

[Learn More About MongoDB at MongoDB University](#)


Daniel Coupal and Ken W. Alger

April 26, 2019

[#Developer](#) [#University](#)

As we wrap up the *Building with Patterns* series, it's a good opportunity to recap the problems the patterns that have been covered solve and highlight some of the benefits and trade-offs each pattern has. The most frequent question that is asked about schema design patterns, is "I'm designing an application to do X, how do I model the data?" As we hope you have discovered over the course of this blog series, there are a lot of things to take into consideration to answer that. However, we've included a *Sample Use Case* chart that we've found helpful to at least provide some initial guidance on data modeling patterns for generic use cases.

Sample Use Cases

The chart below is a guideline for what we've found after years of experience working with our customers of what schema design patterns are used in a variety of applications. This is not a "set in stone" set of rules about which design pattern can be used for a particular type of application. Ensure you look at the ones that are frequently used in your use case. However, don't discard the other ones, they may still apply. How you design your application's data schema is very dependent on your data access patterns.



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Daniel is a Senior Curriculum Engineer on the Education team at MongoDB. Daniel was part of the Technical Support Team at MongoDB before transferring to the Education Department. Prior to MongoDB,

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We will go over a few techniques, from a very simple process for simple schemas to more complex ones for large teams and large projects.

Prerequisites:

M001 and software architecture experience with data modeling or MongoDB experience in general.

What You'll Build

You'll build a solid understanding of frequent patterns to apply when modeling and will be able to apply those in your designs.

Course Details



Questions to Ask as You Model Your Data

- What data will you need to store?
- What data is likely to be accessed together?
- What queries will be run most frequently?
- What data is likely to grow at a rapid, unbounded pace?



There is no "right" model
for your data.






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M

CORS issue with client side Realm GraphQL Endpoint

MongoDB Realm graphql

6

1m



Run mongo shell commands from MongoDB Realm Functions

MongoDB Realm

4

10m


J

MongoDB 3.6.20 is released

Product & Driver Announcements server

0

12m




Replica Set with Master, Secondary, 3 Arbiters

Ops and Admin replication

10

1h



Update embedded field in MongoDB using Golang

Drivers & ODMs golang

3

2h

T


It is possible to add new field into existing collection which connected each others?

Working with Data aggregation data-modeling

2

3h

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These organizations were selected by members of TUPOC, MongoDB's affinity group for Underrepresented People of Color.

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