



Mastering MongoDB

Data Boot Camp
Lesson 12.2



What's MongoDB?



MongoDB is a very popular noSQL database.



It uses a document-oriented model as opposed to a table-based relational model (SQL).



MongoDB stores data in BSON format (effectively, compressed JSONs).



MongoDB has tons of drivers and packages for connecting to Node, C++, Java, etc.

Relational Databases (SQL)

ID	Title	Author	Published
1	The History of Blah	Blah Matic	2010
2	The Chronicles of Blahrnia	Sir Blahston	2011
3	Love in the Time of Blah	Gabriel Garcia Blah	2013



SQL relies on **joins** to combine relevant data.

Author	Email	Phone Number
Blah Matic	blahston@gmail.com	911-546-5454
Sir Blahston	blahby@gmail.com	911-544-5112
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Document Database (noSQL)



noSQL databases, on the other hand, are effectively JSONs.



They excel at heterogeneous data formats and are easy to implement.

```
{
  "id": 1,
  "Title": "The History of Blah",
  "Author": {
    "name": "Blah Matic",
    "email": "blahston@gmail.com",
    "phone": "911-546-5454"
  },
  "Published": 2010
},
{
  "id": 2,
  "Title": "The Chronicles of Blahrnia",
  "Author": {
    "name": "Sir Blahston",
    "email": "blahby@gmail.com",
    "phone": "911-544-5112"
  },
  "Published": 2011
},
}
```

MongoDB Storage

Terms are slightly different in the noSQL context. Take note!

SQL Term	noSQL Term
Database	Database
Table	Collection
Row	Document
Column	Field

MongoDB Storage

Database composed of multiple collections

Collection composed of multiple documents



Collection composed of multiple documents



Time to Code

