



Mastering MongoDB

Data Boot Camp
Lesson 12.1



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
Gabriel Garcia Blah	blahby231@gmail.com	125-215-5645

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



Partner Activity:

Questions & Answers

Suggested Time:
10 minutes



Partner Activity: Questions & Answers

Work with your neighbors to research the following:

01

What are the advantages of using a noSQL database like MongoDB according to the MongoDB website?

02

What are the advantages of using a noSQL database like MongoDB according to the web (according to places like Quora)?

03

What are the disadvantages of using a noSQL database like MongoDB according to the web (according to places like Quora)?

Suggested Time: 10 minutes



MongoDB Storage

Database composed of multiple collections

Collection composed of multiple documents



Collection composed of multiple documents



Time to Code

