



# Mastering MongoDB

Data Boot Camp  
Lesson 12.1



# What's MongoDB?

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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)

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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	<a href="mailto:blahston@gmail.com">blahston@gmail.com</a>	911-546-5454
Sir Blahston	<a href="mailto:blahby@gmail.com">blahby@gmail.com</a>	911-544-5112
Gabriel Garcia Blah	<a href="mailto:blahby231@gmail.com">blahby231@gmail.com</a>	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

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

SQL Term	noSQL Term
Database	<b>Database</b>
Table	<b>Collection</b>
Row	<b>Document</b>
Column	<b>Field</b>



## **Partner Activity:** Questions & Answers

**Suggested Time:**  
10 minutes



# Partner Activity: Questions & Answers

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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

