



WHAT IS
MONGO
DATABASE



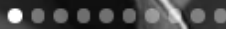
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Art Credit : Disney Tangled



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▶ Cody

popupdev04@gmail.com





Till now Relational Database System
are the most widely used Database

pre-defined schema

Tabular DB

consistency

id	Name	Phone No.
1	Cody	(234) 235-5678
2	Andy	(154) 483-6583
3	Jedy	(354) 142-7261

Easy for Computation

predefined, clean data

well optimized



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Now when there are multiple phone numbers ?

id	Name	Phone No.	Mobile No.
1	Cody	(234) 235-5678	
2	Andy	(154) 483-6583	(555) 555-1234
3	Jedy	(354) 142-7261	

alter table



or have them in seperate tables

id	Name
1	Cody
2	Andy
3	Jedy

name table

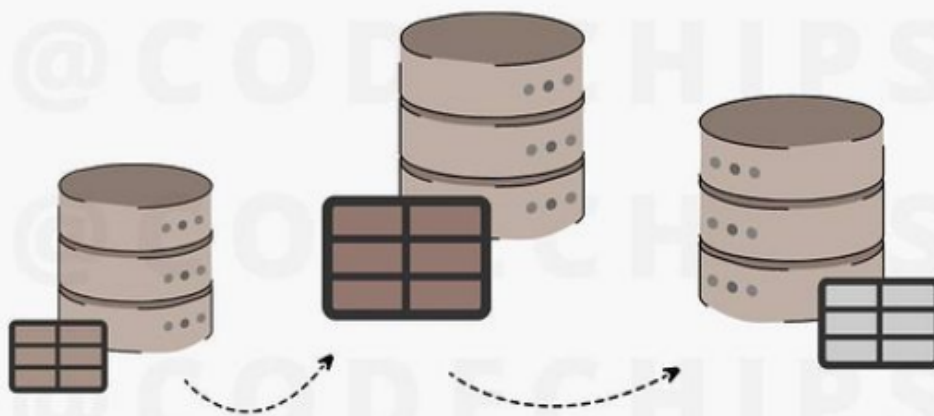
Name	Phone No.	Mobile No.
Cody	(234) 235-5678	
Andy	(154) 483-6583	(555) 555-1234
Jedy	(354) 142-7261	

phone number table




But there are few things these popular DB's faced

Sometimes applications cannot have predefined schema, so it can't be represented in terms of RDBMS



These dbs are stored in multiple servers and maintaining relations between them makes the reading process slow and hard to scale , making it less flexible

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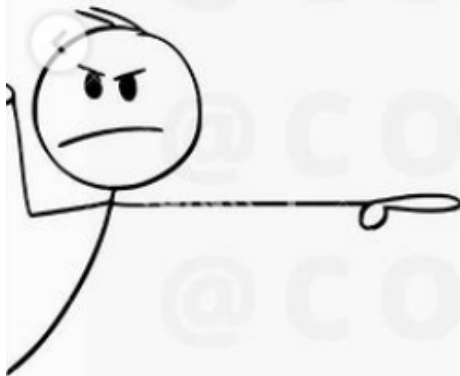
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So they came up with No-SQL system that is much more flexible and faster

Non SQL or Not Only SQL



Note : NoSQL DBMS is not a replacement for RDBMS, rather is it to support the gaps found in RDBMS while dealing with big data



MongoDB

MongoDB is a No-SQL system. So rather than having row oriented storage, it has **document oriented storage**

Document in MongoDB is much like JSON

Database

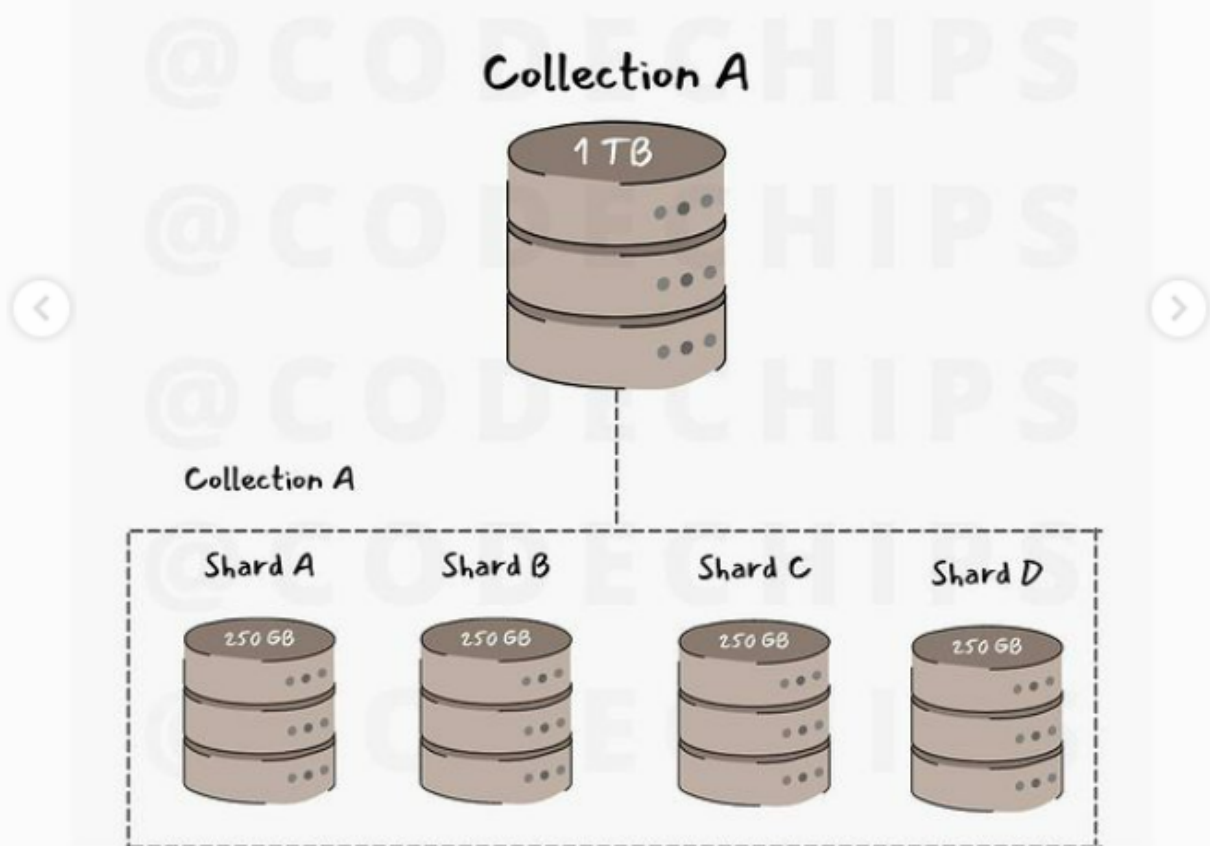
Collection

Document

```
{
  id: 1,
  Name: "Andy",
  Phone_No: [
    "(154) 483-6583",
    "(555) 555-1234"
  ]
}
```




MongoDB data are stored in **self-contained** JSON-like documents that are not coupled relationally, allowing those documents to be easily distributed across multiple nodes through **horizontal scaling**.



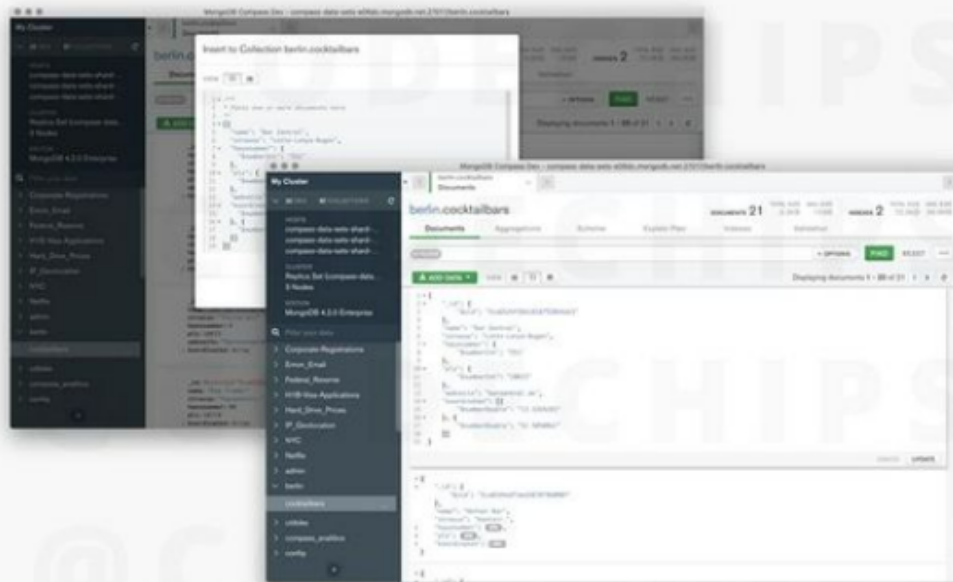


Cons of MongoDB






MongoDB Compass is a GUI for MongoDB.
It is an interactive tool for querying, optimizing,
and analyzing your MongoDB data



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