

MongoDB

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MongoDB

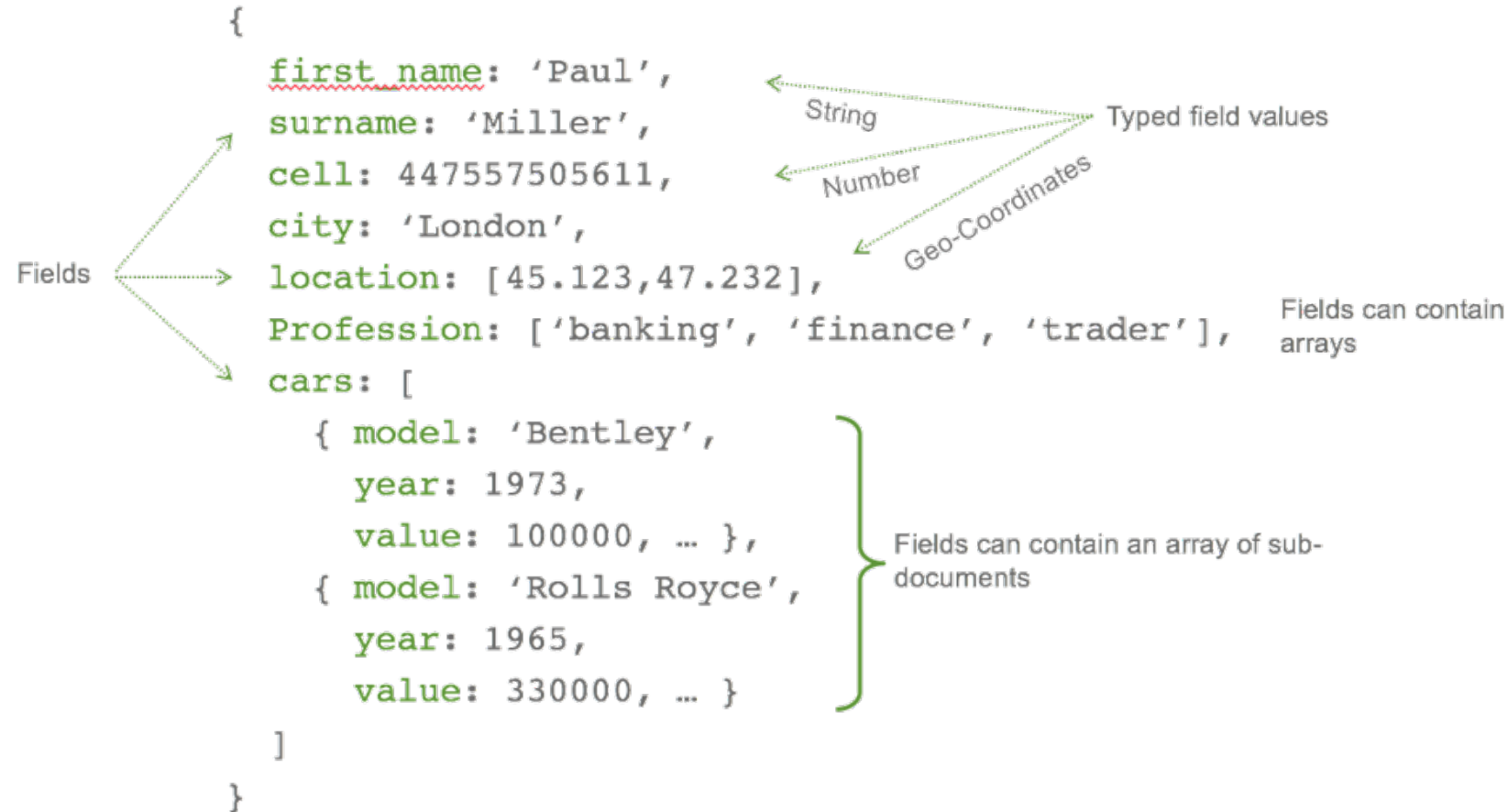
- **Document** based database
- Concept mapping:

SQL Terms/Concepts	MongoDB Terms/Concepts
database	database
table	collection
row	document or BSON document
column	field

- Each document is constructed as a **BSON** (Binary JSON)

MongoDB documents

A document looks like this:



MongoDB: Running queries

- Search query is in **BSON**
 - e.g. `{ 'state' : 'Michigan' }`
- For a simple selection of documents (i.e. rows in SQL), use `find()` method
- For a bit more sophisticated query, use `aggregate()` method
- MongoDB: Does “JOIN” exist?
 - There is a similar method, but it is not as powerful as SQL’s **JOIN**. In the end, [“if you have relational data, use a relational \(SQL\) database!”](#).

MongoDB Demo

- For MongoDB, the easiest way to deploy is to use Atlas service.
 - <https://www.mongodb.com>
 - One shared cluster is always free, we will use it.