

MongoDb Databases

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MongoDb: Data Types

data	bson	values
null	10	
boolean	8	true, false
number	1/16/18	123, 456.78, NumberInt("24"), NumberLong("28")
string	2	<i>""</i>
date	9	new Date(), ISODate("yyyy-mm-ddThh:mm:ss")
array	4	[,,]
object	3	{ }



MongoDB Terminology

Database

- Like database/schema in RDBMS.
- mongo> show databases;
- mongo> use dbname;

Collection

- Like table in RDBMS.
- No fixed structure or schema.
- mongo> db.createCollection("colname");

Document

- Like row in RDBMS.
- Inserted in JSON format.
- Each record can have different fields.

Field

- Like column in RDBMS.
- A name-value pair in a document.



Mongo - INSERT

- Maximum document size is 16 MB.
- For each object unique id is generated by client (if _id not provided).
 - 12 byte unique id :: [counter(3) | pid(2) | machine(3) | timestamp(4)]



Mongo – QUERY

- db.contacts.find(); → returns cursor on which following ops allowed:
 - hasNext(), next(), skip(n), limit(n), count(), toArray(), forEach(fn), pretty()
- Shell restrict to fetch 20 records at once. Press "it" for more records.
- db.contacts.find({ name: "nilesh" });
- db.contacts.find({ name: "nilesh" }, { _id:0, name:1 });
- Relational operators: \$eq, \$ne, \$gt, \$lt, \$gte, \$lte, \$in, \$nin
- Logical operators: \$and, \$or, \$nor, \$not
- Element operators: \$exists, \$type
- Evaluation operators: \$regex, \$where, \$mod
- Array operators: \$size, \$elemMatch, \$all, \$slice





Thank you!

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