Mongo DB interview Q&A

[https://docs.mongodb.com/manual/faq](https://docs.mongodb.com/manual/faq/concurrency/)

1. What are Indexes in MongoDB?

Difficulty: ⭐⭐

Answer:

Indexes support the efficient execution of queries in MongoDB. Without indexes, MongoDB must perform a collection scan, i.e. scan every document in a collection, to select those documents that match the query statement. If an appropriate index exists for a query, MongoDB can use the index to limit the number of documents it must inspect.

2. What is sharding?

<https://www.guru99.com/mongodb-sharding-implementation.html>

3. What is locking?

4. What are transactions?

5. What is replication?

6. Schema design in mongodb?

7. <https://www.fullstack.cafe/blog/30-best-mongodb-interview-questions-and-answers>

8. Can you create an index on an array field in MongoDB? If yes, what happens in this case?

Difficulty: ⭐⭐

Answer:

Yes. An array field can be indexed in MongoDB. In this case, MongoDB would index each value of the array so you can query for individual items

9. Explain the structure of ObjectID in MongoDB

Difficulty: ⭐⭐⭐

Answer:

ObjectIds are small, likely unique, fast to generate, and ordered. ObjectId values consist of 12 bytes, where the first four bytes are a timestamp that reflect the ObjectId’s creation. Specifically:

a 4-byte value representing the seconds since the Unix epoch,

a 5-byte random value, and

a 3-byte counter, starting with a random value. In MongoDB, each document stored in a collection requires a unique \_id field that acts as a primary key. If an inserted document omits the \_id field, the MongoDB driver automatically generates an ObjectId for the \_id field.

10. How can you achieve primary key - foreign key relationships in MongoDB?

Difficulty: ⭐⭐⭐

Answer:

By default MongoDB does not support such primary key - foreign key relationships. However, we can achieve this concept by embedding one document inside another (aka subdocuments). Foe e.g. an address document can be embedded inside customer document.