

Overview of MongoDB

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Concept Database

Database is a physical container for Collection. Each Database gets its own set of files on the file system. Each MongoDB Server can have multiple databases.

Concept Collection

Collection is a group of Documents in MongoDB. It is equivalent to a table in RDBMS. Therefore, a Collection exists within a single database. Collections do not bind Relationship as other database management systems, so the access is very fast, so each collection can contain many different types unlike the table in the mysql administration system that is the fixed fields. determined. Documents inside a Collection can have many different fields. In particular, all Documents in a Collection are similar or with the same purpose.

Concept of Document

A Document in MongoDB, has a structure similar to the JSON data type, is a set of key-value pairs. Documents with schema dynamics, meaning Document in the same Collection need not have the same set of fields or structures, and common fields in a Collection's Document can hold different data types.

Below table shows relationship of RDBMS terminology with MongoDB

RDBMS	MongoDB
Database	Database
Table	Collection
Tuple / Row	Document
column	Field
Table Join	Embedded Documents
Primary Key	Primary Key (Default value is <code>_id</code> provided by MongoDB itself)
Database Server and Client	Mysqld / Oracle mongod mysql / sqlplus mongo

Simple Document structure

The following example illustrates the Document structure of a Blog site with a key-value pair distinguished by commas.

```
{ _id : ObjectId ( 7df78ad8902c ) title : 'MongoDB Overview' , description :
```

Here, **_id** is a 12-byte hexadecimal number to ensure the uniqueness of each Document. You can provide **_id** while inserting into the Document. If you do not provide it, MongoDB will provide a unique id for each Document. In these 12 bytes, the first 4 bytes are for the current Timestamp, the next 3 bytes for the device ID, the next 2 bytes are the process id of MongoDB Server and the remaining 3 bytes are the possible values.

According to Tutorialspoint

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