# MONGODB OVERVIEW

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Mong oDB is a cross-platform, document oriented database that provides, high performance, high availability, and easy scalability. Mong oDB works on concept of collection and document.

### **Database**

Database is a physical container for collections. Each database gets its own set of files on the file system. A single MongoDB server typically has multiple databases.

## Collection

Collection is a group of Mong oDB documents. It is the equivalent of an RDBMS table. A collection exists within a single database. Collections do not enforce a schema. Documents within a collection can have different fields. Typically, all documents in a collection are of similar or related purpose.

#### **Document**

A document is a set of key-value pairs. Documents have dynamic schema. Dynamic schema means that documents in the same collection do not need to have the same set of fields or structure, and common fields in a collection's documents may hold different types of data.

Below given table shows the 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 key _id provided by mong odb itself)
Database Server and Client	
Mysqld/Oracle	mongod
mysql/sqlplus	mongo

# Sample document

Below given example shows the document structure of a blog site which is simply a comma separated key value pair.

```
{
 id: ObjectId(7df78ad8902c)
title: 'MongoDB Overview',
description: 'MongoDB is no sql database',
by: 'tutorials point',
url: 'http://www.tutorialspoint.com',
tags: ['mongodb', 'database', 'NoSQL'],
likes: 100,
comments: [
    {
       user: 'user1',
       message: 'My first comment',
       dateCreated: new Date (2011, 1, 20, 2, 15),
       like: 0
    },
       user: 'user2',
       message: 'My second comments',
       dateCreated: new Date (2011, 1, 25, 7, 45),
       like: 5
]
```

\_id is a 12 bytes hexadecimal number which assures the uniqueness of every document. You can provide \_id while inserting the document. If you didn't provide then Mong oDB provide a unique id for every document. These 12 bytes first 4 bytes for the current timestamp, next 3 bytes for machine id, next 2 bytes for process id of mong odb server and remaining 3 bytes are simple incremental value.