Apache MongoDB

Functional Area: Database:NoSQL:Document

Overview:

MongoDB is a document database that provides high performance, high availability, and easy scalability.

MongoDB data model:

Database

A MongoDB database can hold a set of collections. Like a traditional RDBMS, a single mongodb server can have multiple databases.

Collection

In mongodb, a collection is the equivalent of an RDBMS table. A collection can hold a set of documents. Collections do not enforce any schema. Documents within a collection can have different fields.

Document

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

Comparison of a traditional RDBMS or mongodb to gain a better understanding of the mongodb.

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| RDBMS | MongoDB |
| Database | Database |
| Table | Collection |
| Tuple/row | Document |
| Column | Field |
| Table join | Embedded documents |
| Primary key | Primary key (default key id provided by mongodb itself) |
| Database server and client |  |
| MySqld/Oracle | Mongod |
| Mysql/sqlplus | mongo |