MONGODB



INTRODUCTION

**MongoDB** is a source-available, cross-platform, document-oriented database program. Classified as a NoSQL database product, MongoDB utilizes JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and current versions are licensed under the Server Side Public License (SSPL). MongoDB is a member of the MACH Alliance.

## MongoDB supports field, range query and regular-expression searches. Queries can return specific fields of documents and also include user-defined JavaScript functions. Queries can also be configured to return a random sample of results of a given size.

## Fields in a MongoDB document can be indexed with primary and secondary indices.

## WHAT IS DATABASE?

## The software that interacts with end users, applications, and the database itself to capture and analyze the data. The DBMS additionally encompasses the core facilities provided to administer the database. The sum total of the database, the DBMS and the associated applications can be referred to as a database system. Often the term "database" is also used loosely to refer to any of the DBMS, the database system or an application associated with the database.

**FEW** **COMMANDS** :

1.show dbs : This command is used to show all the databases.

2.use db : This command is used to connect and use db.

3.show collections : This command is used to show all tables.

4.db.foo.insert({“ bar ” : ”baz” }) : This command is used to insert a record to collection. Create

collections if not exist

5.db.foo.batchInsert([{“\_id”:0},{“\_id”:1},{“\_id”:2}]) : This command is used to insert more than one

Document.

6.db.foo.find() : This command is used to print all rows.

7.db.foo.remove() : This command is used to remove foo table.

**DOCUMENTS,COLLECTIONS AND DATABASES** :

**COLLECTIONS** : Collections A collection is a group of documents.If a document is the MongoDB

analog of a row in a relational database, then a collection can be thought of as the analog to

table.

**DATABASE** : MongoDB groups collections into databases. A single instance of MongoDB can

host several databases, each grouping together zero or more collections. A database has its own

permissions, and each database is stored in separate files on disk. A good rule of thumb is to

store all data for a single application in the same database.

**DATATYPE :** Basically each document will be in JSON format which will be as follows. Where each

attributes inside can be of multiple data types.

{

“name”:”John Doe”,

“address”:{

“street”:”123 park street”,

“city”:”Anytown”,

"