**Discussion 4.1 – What is MongoDB?**

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**BU - Web 335**

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**04/06/21**

**What is MongoDB?**

MongoDB is a powerful, flexible, & scalable general-purpose database. MongoDB stores data in flexible, JSON-like documents, meaning fields can vary from document to document and data structure can be changed over time. The document model maps to the objects in your application code, making data easy to work with. Ad hoc queries, indexing, and real time aggregation provide powerful ways to access and analyze your data. MongoDB is a distributed database at its core, so high availability, horizontal scaling, and geographic distribution are built in and easy to use.

**What are the key features of MongoDB?**

* Aggregation Framework
* Uses BSON format
* MongoDB Sharding
* MongoDB Ad hoc queries
* MongoDB is Schema – Less
* Capped Collections
* MongoDB Indexing
* File storage
* Replication
* MongoDB Management Service (MMS)

**Select two MongoDB data types and explain what they are, how they are used, and why they are important.**

String: Most used MongoDB data types. Drivers for each programming language convert from the string format of the language to UTF-8 while serializing and de-serializing BSON.

> use dataflair

Switched to db dataflair

> db.dataflair.insert({Document: “Data types in MongoDB”})

WriteResult({ “nInserted” : 1 })

> db.dataflair.find()

{ “\_id” : ObjectId(“5ad98409182398749ab6708”), “Document” : “Data types in MongoDB” }

>

Object: Object data type stores embedded documents. If a document contains another document in the form of the key-value pair then such type of document is known as an embedded document.

> var local={writer:”ankit”,credit:4.6,publication:”data flair”}

> db.dataflair.insert({system:”Windows”,architechture:64,diskspac:”500GB”,server:local})

WriteResult({ “nInserted” : 1 })

> db.dataflair.find().pretty()

{

“\_id” : ObjectId(“5ad98409182398749ab6708”), “Document” : “Data types in MongoDB”

}

{

“\_id” : ObjectId(“5ad984091823cd4395789”),

“system” : “Windows”,

“architechture" : 64,

“diskspac” “ “500GB”,

“server” : {  
 “writer” : “ankit”,

“credit” : 4.6,

“publication” : “data flair”

}

}

**References:**

What is mongodb? (n.d.). Retrieved April 07, 2021, from <https://www.mongodb.com/what-is-mongodb>

AroraHi, F. (2019, August 03). What are the top 10 key features of mongodb? Retrieved April 07, 2021, from <https://www.tutorialsjar.com/key-features-of-mongodb/>

MongoDB data types - 16 various data types in MongoDB. (2018, September 14). Retrieved April 07, 2021, from <https://data-flair.training/blogs/mongodb-data-types/>