ASSIGNMENT 12

<u>Aim</u>: Create a database with suitable example using MongoDB and implement basic commands on MongoDB database

<u>Problem statement</u>: Create a database with suitable example using MongoDB and implementing
- insert and saving document (batch insert, insert validation)
- removing document
- updating document (doument replacement, using modifiers, upserts, updating multiple documents, returning updated documents)

<u>Objective</u>: • To understand MongoDB basic commands
- To implement the concept of document oriented databases

<u>Theory</u>: <u>SQL vs Mongo DB</u>

SQL Concepts	MongoDB Concepts
◦ Database	◦ Database
◦ Table	◦ Collection
◦ Row	◦ Document or BSON Document
◦ Column	◦ Field
◦ Index	◦ Index
◦ Table Join	◦ Embedded Documents & Linking
◦ Primary Key	◦ Primary Key
◦ Specify any unique column or column combination as primary key	◦ In MongoDB, the primary key is automatically set to the Id field
◦ Aggregation (eg-group by)	◦ Aggregation Pipeline

1) Create a collection in MongoDB
   db.createCollection ("Teacher_Info")

2) Create a capped collection in MongoDB
   db. createCollection ("audit", { capped : true , size : 20480})

3) Inserting a document into collection
   db.Teacher-info. insert ({ Teacher - id : "Pic 001", Teacher -
   Name : "Ravi", Dept_Name : "IT", sal : 30000,
   Status : "A"})

4) Update a document into collection
   — db. Teacher -info . update ({sal : { $gt : 25000} },
   { $ set : { Dept-Name : "ETC"}}, { multi : true })
   — db. Teacher_info . update ({ status : "A '} , { $ inc : {sal : 10000}}
   , {multi : true })

5) Remove a document from collection
   db. Teacher -info . remove ({Teacher _id : "Pic 001"}) ;
   db . Teacher -info . remove ({ })

6) Alter a field into a document
   db. Teacher -info .update ({ }, { $ set : { join - date :
   new Date () }}, { multi : true })

7) To drop a particular collection
   db. Teacher -info . drop ()

Conclusion :
Understood to implement data from mongoDB database
with the help of statements and operators.