Assignment 35

Titles- Implement 5 basics query using MongoDB.

Problem Statement: - Design & emplement any 5 querries using MongoDB.

Objective 3-

I understand the concept of Mongo 113 2) Understand the concept of Mongo DB

on two tier. 3) Understand the basic commands of Mango DB.

5/w & H/w Requirements ?- Mongo DB, 64 bit OS

outcome: Students will be able to I Implement the commands on two

2] Implement the database on Mongals

Theory: Mongo DB is a cross platform document oriented database that provide high performance. High availability & easy scalability. Mongo DB works on concept at collection & document. A single Mongolis server typically has multiple databases.

Collection :-

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

Doament &

A doainent is a set of key--value pairs. Documents have dynamic schema. Dynamic schema means that document in same collection donot need to have the same set of kields or structure & common fields in a collection document may hold different types of data.

Advantages of mongods over RDBMs. 1) Schema less 2) Structure of single object is clear. 3) ho complex joins. 4) Deep query ability. 5) Turing. 6) conversion/mapping of application objects to database object not needed 7) Uses Priternal memory for storing the working set enabling faster access of data

Conclusion:

In this assignment, we have learned & implemented basic community of menge DB to query documents also developed queries to sort, update ensert, allete. The clocument from the collection.

```
MongoDB Enterprise > db.hostInfo()
        "system" : {
                "currentTime" : ISODate("2020-11-03T05:15:01.076Z"),
                "hostname" : "Atharva",
                "cpuAddrSize" : 64,
                "memSizeMB" : 8097,
                "memLimitMB" : 8097,
                "numCores" : 4,
                "cpuArch" : "x86_64",
                "numaEnabled" : false
        3,
        "os" : {
                "type" : "Windows",
                "name" : "Microsoft Windows 8.1",
                "version" : "6.3 (build 9600)"
        3,
        "extra" : {
                "pageSize" : NumberLong(4096)
        3,
        "ok" : 1
```

```
MongoDB Enterprise > db.stats()
        "db" : "test",
        "collections" : 4,
        "views" : 0,
        "objects": 34,
        "avgObjSize": 113.8235294
        "dataSize" : 3870,
       "storageSize": 126976,
       "numExtents" : 0,
       "indexes" : 6,
       "indexSize": 159744,
       "fsUsedSize" : 125528727552,
       "fsTotalSize" : 161161932800,
        "ok": 1
```

```
MongoDB Enterprise > db.Embedded_Doc.find().limit(3)
{ "_id" : ObjectId("5f97a99a840fdea4aed5a1c6"), "EmpId" : 1, "Name" : { "fname" : "Rohan", "lname" : "Patil" }, "Age" : 20, "Salary" : 25000, "Experience" : 2 }
{ "_id" : ObjectId("5f97a99a840fdea4aed5a1c7"), "EmpId" : 2, "Name" : { "fname" : "Suraj", "lname" : "Sharma" }, "Age" : 24, "Salary" : 30000, "Experience" : 4 }
{ "_id" : ObjectId("5f97a99a840fdea4aed5a1c8"), "EmpId" : 3, "Name" : { "fname" : "Aniket", "lname" : "Satav" }, "Age" : 24, "Salary" : 26000, "Experience" : 2 }
```

```
MongoDB Enterprise > db.Embedded_Doc.renameCollection("Embedded_doc")
{ "ok" : 1 }
MongoDB Enterprise > show collections
Cars
Customer
Embedded_doc
Employee
Student
cars
```