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Roll No.: L039

MSc Data Science and Al

Practical 5: Sharding using MongoDB

Create a folder and in that folder make 9 files/folders with names -> primary, secondary1, secondary2, server1, server ed below

REPLICATION

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## \*\*OPEN CMD AND RUN FOLLOWING COMMANDS\*\*

#### C:\Users\LENOVO>cd C:\mogoshard

```
start mongod --port=50000 --replSet="Server1" --dbpath="C:\mongoshard\primary" start mongod --port=50001 --replSet="Server1" --dbpath="C:\mongoshard\secondary1" start mongod --port=50002 --replSet="Server1" --dbpath="C:\mongoshard\secondary2"
```

# \*\*OPEN CMD AND RUN FOLLOWING COMMANDS\*\*

Microsoft Windows [Version 10.0.22621.3155] (c) Microsoft Corporation. All rights reserved.

C:\Users\LENOVO>mongosh --port=50000

Current Mongosh Log ID: 65f08313daf480d082a47e42

Connecting to: mongodb://127.0.0.1:50000/?directConnection=true&serverSelectionTimeoutMS=2000&appNan

Using MongoDB: 7.0.5 Using Mongosh: 2.1.5

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

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The server generated these startup warnings when booting

2024-03-12T21:59:01.395+05:30: Access control is not enabled for the database. Read and write access to data and 2024-03-12T21:59:01.396+05:30: This server is bound to localhost. Remote systems will be unable to connect to this ich IP addresses it should serve responses from, or with --bind\_ip\_all to bind to all interfaces. If this behavior is desirable warning

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Server1 [direct: secondary] test>

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```
**OPEN CMD AND RUN FOLLOWING COMMANDS**
```

C:\Users\LENOVO>cd C:\mogoshard

start mongod --configsvr --port=1030 --replSet="Server1" --dbpath="C:\mongoshard\server1"

start mongod --configsvr --port=1040 --replSet="Server1" --dbpath="C:\mongoshard\server2"

start mongod --configsvr --port=1050 --replSet="Server1" --dbpath="C:\mongoshard\server3"

OPEN CMD AND RUN FOLLOWING COMMANDS

Microsoft Windows [Version 10.0.22621.3155]

(c) Microsoft Corporation. All rights reserved.

C:\Users\LENOVO>mongosh --host="localhost:1030" Current Mongosh Log ID: 65f084803e226f2421899c2c

Connecting to: mongodb://localhost:1030/?directConnection=true&serverSelectionTimeoutMS=2000&appName

Using MongoDB: 7.0.5 Using Mongosh: 2.1.5

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

The server generated these startup warnings when booting

2024-03-12T22:04:01.822+05:30: Access control is not enabled for the database. Read and write access to data and 2024-03-12T22:04:01.823+05:30: This server is bound to localhost. Remote systems will be unable to connect to this ich IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desirable warning

```
test> rs.initiate({
... _id:"Server1",
... configsvr:true,
... members:[
... {_id:0, host:"localhost:1030"},
... {_id:1, host:"localhost:1040"},
... {_id:2, host:"localhost:1050"}
... ]
... }
{ ok: 1 }
Server1 [direct: other] test>
```

SHARDS

OPEN CMD AND RUN FOLLOWING COMMANDS

C:\Users\LENOVO>cd C:\mogoshard

start mongod --shardsvr --port=1130 --dbpath="C:\mongoshard\shard1" --replSet="Server1"

start mongod --shardsvr --port=1140 --dbpath="C:\mongoshard\shard2" --replSet="Server1"

start mongod --shardsvr --port=1150 --dbpath="C:\mongoshard\shard3" --replSet="Server1"

OPEN CMD AND RUN FOLLOWING COMMANDS

Microsoft Windows [Version 10.0.22621.3155] (c) Microsoft Corporation. All rights reserved.

C:\Users\LENOVO>mongosh --host="localhost:1130" Current Mongosh Log ID: 65f0868d80f995ab2c101aae

Connecting to: mongodb://localhost:1130/?directConnection=true&serverSelectionTimeoutMS=2000&appName

Using MongoDB: 7.0.5 Using Mongosh: 2.1.5

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

The server generated these startup warnings when booting

2024-03-12T22:13:29.993+05:30: Access control is not enabled for the database. Read and write access to data and 2024-03-12T22:13:29.994+05:30: This server is bound to localhost. Remote systems will be unable to connect to this ich IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desired his warning

Server1 [direct: other] test>