

MONGODB PRACTICE – NOTES AND GUIDELINES

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1. PRACTICE ENVIRONMENT

- Before starting the practice be sure to follow all instructions in the installation and configuration guide of the practice environment.
- Verify all required services are up and running

2. COPYING FILES INTO THE DOCKER ENVIRONMENT

- You can copy files from your local computer environment to the Docker environment using “docker cp”. For example:

```
docker cp <local-fs-folder-and-file-name-source>  
    < docker-fs-folder-and-file-name-destination>
```

3. LOADING DATA INTO MONGODB

- Use “mongoimport” to load files into Mongo DB
mongoimport <options> <connection-string> <file>
- For example:
mongoimport --host <hostname> --port <port-number> -d <db-name> -c <collection-name> <file-name>
 - The default port for MongoDB is 27017

4. VIEWING AVAILABLE OPTIONS IN MONGODB

- To view available options simply add “help()” to the option you would like to explore.
- For example:
 - View database options:
> db.help()
 - View collection options:
> db.collection.help()
 - View find options in a collection:
> db.collection.find().help()
 - And so on...

5. CRUD OPERATIONS WITH MONGODB COLLECTIONS

- You can query MongoDB collections using the “**find**” collection method
- Manipulate documents in collection using the “**insert**”, “**update**” and “**remove**” collection methods.
- See syntax and examples in the documentation here:
<https://docs.mongodb.com/manual/reference/method/js-collection/>

6. MONGODB ARCHITECTURE AND ADMINISTRATION

- Use the “**isMaster**” command to get information about the current node and its part in the MongoDB cluster.
 - See documentation about the different attributes it can display:
<https://docs.mongodb.com/manual/reference/command/isMaster/>
- Use the “**serverStatus**” command to get information about the database, including various metrics and statistics.
 - See documentation about the different attributes it can display:
<https://docs.mongodb.com/manual/reference/command/serverStatus/>
- Use the “**currentOp**” command to get information about operation currently running (in-progress) in the database instance, including various metrics and statistics.
 - See documentation about the different attributes it can display:
<https://docs.mongodb.com/manual/reference/method/db.currentOp/>
- Use the replication method “**rs.status()**” to get information about the current state of replication sets in the database.
 - See documentation about the different attributes it can display:
<https://docs.mongodb.com/manual/reference/method/rs.status/>