### **Introduction to MongoDB**

#### Objectives and Outcomes

In this exercise you will download and install MongoDB on your computer. You will then start a MongoDB server and interact with it using the Mongo REPL shell. At the end of this exercise, you will be able to:

* Download and Installing MongoDB
* Start the server and interact with it using the Mongo REPL shell

#### Downloading and Installing MongoDB

* Go to [http://www.mongodb.org](http://www.mongodb.org/), then download and install MongoDB as per the instructions given there.
* Create a folder named mongodb on your computer and create a subfolder under it named data.
* Move to the mongodb folder and then start the MongoDB server by typing the following at the prompt:

     mongod --dbpath=data --bind\_ip 127.0.0.1

* Open another command window and then type the following at the command prompt to start the mongo REPL shell:

     mongosh

* The Mongo REPL shell will start running and give you a prompt to issue commands to the MongoDB server. At the Mongo REPL prompt, type the following commands one by one and see the resulting behavior:

     db

     use conFusion

     db

     db.help()

* You will now create a collection named dishes, and insert a new dish document in the collection:

     db.dishes.insert({ name: "Uthappizza", description: "Test" });

* Then to print out the dishes in the collection, type:

     db.dishes.find().pretty();

**Note the "\_id" assigned to the dish.**

* Next, we will learn the information encoded into the ObjectId by typing the following at the prompt:

     var id = new ObjectId();

     id.getTimestamp();

* Type "exit" at the REPL prompt to exit the Mongo REPL.

#### Conclusions

In this exercise, you learnt to download and install MongoDB. Then you started the MongoDB server and interacted with it using the Mongo REPL shell.