Inserting a document into a collection (Create)

The command db.collection.insert() will perform an insert operation into a collection of a document.

Let us insert a document to a **student** collection. You must be connected to a database for doing any insert. It is done as follows:

```
regNo: "3014",
        course: {
                  courseName: "MCA",
                  duration: "3 Years"
        address: {
db.student.insert(
                                              C:\windows\system32\cmd.exe - mongo
                                                db.student.insert(
       regNo: "3014",
                                                         regNo: "3014",
name: "Test Student",
                 "Test Student",
                                                         course: {
                                                            courseName: "MCA",
duration: "3 Years"
            courseName: "MCA",
            duration: "3 Years"
                                                         address:
                                                            dress: {
city: "Bangalore",
state: "KA",
country: "India"
                      "Bangalore",
            state: "KA",
            country: "India"
        }
                                              WriteResult({ "nInserted" : 1 })
```

Note that an entry has been made into the collection called student.

Add MongoDB Array using insert()

Querying a document from a collection (Read)

To retrieve (Select) the inserted document, run the below command.

The find() command will retrieve all the documents of the given collection.

```
db.collection_name.find()

C:\windows\system32\cmd.exe-mongo

bdb.student.find()

{ "_id" : ObjectId("5780db48e30f7f8faae88a83"), "regNo" : "3014", "name" : "Test Student", "course "Bangalore", "state" : "KA", "country" : "India" } }

}
```

NOTE: Please observe that the record retrieved contains an attribute called <u>_id</u> with some unique identifier value called **ObjectId** which acts as a document identifier.

If a record is to be retrieved based on some criteria, the find() method should be called passing parameters, then the record will be retrieved based on the attributes specified.

```
db.collection_name.find({"fieldname":"value"})
```

For Example: Let us retrieve the record from the **student** collection where the attribute **regNo** is **3014**and the query for the same is as shown below:

```
db.students.find({"regNo":"3014"})
```

Printing in JSON format

```
db.Employee.find().forEach(printjson)
db.Employee.find().limit(2).forEach(printjson);
db.Employee.find().sort({Employeeid:-1}).forEach(printjson) //descending order
db.userdetails.find({"education":"M.C.A."},{"user_id" : 1,"password":1,"date_of_join":1
,_id:0}).pretty();//tofetch specific fields only
```

Apart from find() method, there is **findOne()** method, that returns only one document.

Operation	Syntax	Example	RDBMS Equivalent
Equality	{ <key>:<value>}</value></key>	db.student.find({"by":"Asreet"}).pretty()	where by = 'Asreet'
Less Than	{ <key>:{\$lt:<value>}}</value></key>	db.student.find({"marks":{\$lt:50}}).pretty()	where marks < 50
Less Than Equals	{ <key>:{\$lte:<value>}}</value></key>	db.student.find({"marks":{\$lte:50}}).pretty()	where marks <= 50
Greater Than	{ <key>:{\$gt:<value>}}</value></key>	db.student.find({"marks":{\$gt:50}}).pretty()	where marks > 50
Greater Than Equals	{ <key>:{\$gte:<value>}}</value></key>	db.student.find({"marks":{\$gte:50}}).pretty()	where marks >= 50
Not Equals	{ <key>:{\$ne:<value>}}</value></key>	db.student.find({"marks":{\$ne:50}}).pretty()	where marks != 50

