***################## Database Related Commands ######################***

**//mongoDB installation-YouTube**

<https://www.youtube.com/watch?v=FwMwO8pXfq0>

**//importing database**

1. **Using command line**

Type the following command in windows **cmd prompt** (**not in mongo shell**)

**mongoimport --db <database name> --collection <collection name> --file <full JSONfile path & name>**

**mongoimport** command is not a part of Mongo Shell. Install it from the link [**Installation — MongoDB Database Tools**](https://www.mongodb.com/docs/database-tools/installation/installation/) if you haven't installed the MongoDB Database Tools.

Complete path of JSON file to be imported

Collection name of your choice

Database name of your choice

***example:***

mongoimport --db demoDB --collection University --file “D:\cmdD.json”

The JSON documents **should not be** separated by comma(,) and **should not be** contained within arrays. See the difference between contents of **cmdD .json** and **atlasDB.json** files.

1. **Using Atlas GUI**

The JSON documents **should be** separated by comma(,) and **should be** contained within arrays. See the difference between contents of **cmdD .json** and **atlasDB.json** files.

**//clearing mongoshell**

**cls**

**//show databases**

**show databases OR show dbs**

**//create a new database**

**// New database name**

**use demoDB**

**// creating a collection in the New database and inserting one document in it**

**db.my\_collection.insert( {"name" : "John" , "age": 40} )**

**// creating a collection in the New database and inserting many documents in it**

**db.my\_collection.insert( [{"name" : "Eva","age": 46},**

**{"name" : "John","age": 41},**

**{"name" : "Jessica","age": 48},**

**{"name" : "John","age": 42} ] )**

**//drop database**

**db.dropDatabase()**

**//switching to different database**

**use demoDB**

***################## Collections Related Commands ######################***

**//show collections**

**show collections**

**//display collection**

**db.my\_collection.find()**

**OR**

**db.my\_collection.find().pretty() // for output beautification**

**//insert one document in collection using a variable**

**var cust1 = {**

"cust\_id":10,

"name":"Bob",

"street":"Moon lane",

"city":"Los Angeles",

"DOB":new Date("2012-09-25"),

"phone": ["98777777", "98666666", "98555555"],

"married":true  **}**

**db.my\_collection.insertOne(cust1)**

**OR**

**db.my\_collection.insert(cust1)**

**//inserting many documents in a collection using a variable**

**var custn=[**

{ First\_Name: "Sachin",

Last\_Name: "Sharma",

Date\_Of\_Birth: "1995-09-26",

e\_mail: "radhika\_sharma.123@gmail.com",

phone: "9000012345"

},

{

First\_Name: "Rachel",

Last\_Name: "Christopher",

Date\_Of\_Birth: "1990-02-16",

e\_mail: "Rachel\_Christopher.123@gmail.com",

phone: "9000054321"

},

{

First\_Name: "Fathima",

Last\_Name: "Sheik",

Date\_Of\_Birth: "1990-02-16",

e\_mail: "Fathima\_Sheik.123@gmail.com",

phone: "9000054321"

}

**]**

**db. my\_collection.insertMany(custn)**

**OR**

**db. my\_collection.insert(custn)**

**// search in a collection**

**db.my\_collection.find({"name" : "John"})**

**//remove document from a collection**

**db.my\_collection.remove({"name" : "John"},1 ) // removes the 1st John document**

**db.my\_collection.remove({"name" : "John"}) // removes every John document**

**db.my\_collection.remove({}) // empty the collection**

**//update documents in collection**

**//update one document**

**db.my\_collection.update({"name" : "John", "age" : 40}, {$set : {"age" : 50**}}**)**

**// update many documents**

**db.my\_collection.update({"name" : "John"}, {$set : {"age" : 80}}, {multi : true**}**)**

**//replace document**

**db.my\_collection.replaceOne({ "name" : "Eva"}, { "name" : "Eden", "age" : 55 })**

**//incrementing "age" in document**

**db.my\_collection.updateOne({"name" : "Eden"}, {$inc : {"age" : 5}})**

**//inserting/deleting/updating elements in an existing array**

**//add an array in the existing document**

**db.my\_collection.replaceOne({ "name" : "Eden"}, { "name" : "Eden", "age" : "60", "score" : [50,60,70] })**

**//push elements [10,20,30] in array at position '0'**

**db.my\_collection.updateOne({"name" : "Eden"} , { $push : {score : {$each : [10,20,30], $position:0}} })**

**//remove element 50 from array 'score'**

**db.my\_collection.update({ "name" : "Eden" }, { $pull : { "score" : 50 }})**

**//query function-find()**

**//finding single document**

**db.my\_collection.find( {age:{$gt:42}}, {name:1})**

**//finding limited number of documents**

**db.my\_collection1.find( {age:{$gt:41}}, {"\_id" : 0, "name" : 1}).limit(2)**

**//drop a collection**

**db.my\_collection.drop()**