



# MONGODB

Midterms – Week 1

# MongoDB - Projection

The find (method)

Basic Syntax:

```
>db.COLLECTION_NAME.find({},{KEY:1})
```

Example :

```
>db.mycolPlaylist.find( { }, {“title” :1, _id:0})
```

```
{“title”: “Girl Like You”}
```

```
{“title”: “Dancing with a stranger”}
```

```
{“title”: “Stitches
```

```
>”}
```

# MongoDB - Limit Records

## The Limit() Method

To limit the records in MongoDB, you need to use **limit()** method. The method accepts one number type argument, which is the number of documents that you want to be displayed.

Syntax:

**>db.COLLECTION\_NAME.find().limit(NUMBER)**

Example:

Consider the collection myycol has the following data.

```
{_id : ObjectId("507f191e810c19729de860e1"), title: "MongoDB Overview"},  
{_id : ObjectId("507f191e810c19729de860e2"), title: "NoSQL Overview"},  
{_id : ObjectId("507f191e810c19729de860e3"), title: "Tutorials Point Overview"}
```

```
>db.mycol.find({},{"title":1,_id:0}).limit(2)  
{"title":"MongoDB Overview"}  
{"title":"NoSQL Overview"}  
>
```

# MongoDB - Limit Records

## MongoDB Skip() Method

- Apart from limit() method, there is one more method **skip()** which also accepts number type argument and is used to skip the number of documents.

Syntax:

**>db.COLLECTION\_NAME.find().limit(NUMBER).skip(number)**

Example:

Consider the collection mycol has the following data.

```
{_id : ObjectId("507f191e810c19729de860e1"), title: "MongoDB Overview"},  
{_id : ObjectId("507f191e810c19729de860e2"), title: "NoSQL Overview"},  
{_id : ObjectId("507f191e810c19729de860e3"), title: "Tutorials Point Overview"}
```

```
>db.mycol.find({},{"title":1,_id:0}).limit(1).skip(1)  
{ "title": "NoSQL Overview" }  
>
```

# MongoDB - Sort Records

## The sort() Method

To sort documents in MongoDB, you need to use **sort()** method. The method accepts a document containing a list of fields along with their sorting order. To specify sorting order 1 and -1 are used. 1 is used for ascending order while -1 is used for descending order.

Syntax:

**>db.COLLECTION\_NAME.find().sort({KEY:1})**

Example:

Consider the collection myycol has the following data.

```
{_id : ObjectId("507f191e810c19729de860e1"), title: "MongoDB Overview"}  
{_id : ObjectId("507f191e810c19729de860e2"), title: "NoSQL Overview"}  
{_id : ObjectId("507f191e810c19729de860e3"), title: "Tutorials Point Overview"}
```

Following example will display the documents sorted by title in the descending order.

```
>db.mycol.find({}, {"title":1,_id:0}).sort({"title":-1})  
{"title":"Tutorials Point Overview"}  
{"title":"NoSQL Overview"}  
{"title":"MongoDB Overview"}  
>
```

# Midterm Activity # 1

1. Download the restaurants.json file
2. In the command line, go to the directory where the mongoimport.exe file is located
  - In my case, it is under C: \Program Files\MongoDB\Server\4.2\bin
3. Execute the following command:

**mongoimport --jsonArray -d dbRestaurants -c colRestaurants --file restaurants.json**

```
C:\Program Files\MongoDB\Server\4.2\bin>mongoimport --jsonArray -d dbRestaurants -c colRestaurants --file restaurants.json
2020-09-16T18:52:04.872+0800    connected to: mongodb://localhost/
2020-09-16T18:52:06.057+0800    3772 document(s) imported successfully. 0 document(s) failed to import.
```

4. Proceed to the mongoDb command prompt to access the imported json file.
5. Open your Canvas account and perform the activity.