

MAI172: Advance Database Technologies

Register Number: 2448513

Name: Deshmukh Pratik Bhushanrao

Experiment Number and Name: 9 Importing and Exporting data

Date: 12/07/2024 Time: 9.45 am to 11.45 am

1. Import JSON data into MongoDB.

Query:

```
mongoimport --db myDb --collection myCollection --file "D:\Christ\T1\Advanced Database Technology\Labs\Lab 9\patients.json"
```

Output:



```
_id: ObjectId('66e2d1f28c687f0a31f63e0e')
▼ patients : Array (2)
  ▼ 0: Object
    name : "John Doe"
    age : 45
    gender : "male"
    diagnosis : "Common cold"
  ▼ 1: Object
    name : "Jane Smith"
    age : 32
    gender : "female"
    diagnosis : "Sprained ankle"
```

Inference:

The query to import json file as a collection.

2. Import CSV data into MongoDB with header/without header

A. With header

Query:

```
mongoimport --db MyDb --collection MyCollectionName --type csv --headerline --file  
"D:\Christ\T1\Advanced Database Technology\Labs\Lab 9\patients.csv"
```

Output:

```
_id: ObjectId('66e2d2634eca794d0557abee')  
name : "Alice Brown"  
age : 28  
gender : "female"  
diagnosis : "Concussion"  
  
_id: ObjectId('66e2d2634eca794d0557abef')  
name : "Jane Smith"  
age : 32  
gender : "female"  
diagnosis : "Sprained ankle"  
  
_id: ObjectId('66e2d2634eca794d0557abf0')  
name : "Robert Johnson"  
age : 50  
gender : "male"  
diagnosis : "Hypertension"  
  
_id: ObjectId('66e2d2634eca794d0557abf1')  
name : "John Doe"  
age : 45  
gender : "male"  
diagnosis : "Common cold"
```

Inference:

The query to import csv file with header as a collection.

B. Without header

Query:

```
mongoimport --db MyDb --collection MyCollectionName --type csv --fields
"name,age,gender,diagnosis" --file "D:\Christ\T1\Advanced Database Technology\Labs\Lab
9\patients.csv"
```

Output:

```
_id: ObjectId('66e2d2634eca794d0557abee')
name: "Alice Brown"
age: 28
gender: "female"
diagnosis: "Concussion"
```

```
_id: ObjectId('66e2d2634eca794d0557abef')
name: "Jane Smith"
age: 32
gender: "female"
diagnosis: "Sprained ankle"
```

```
_id: ObjectId('66e2d2634eca794d0557abf0')
name: "Robert Johnson"
age: 50
gender: "male"
diagnosis: "Hypertension"
```

```
_id: ObjectId('66e2d2634eca794d0557abf1')
name: "John Doe"
age: 45
gender: "male"
diagnosis: "Common cold"
```

Inference:

The query to import csv file with without header as a collection.


3. Export data from MongoDB to JSON

Query:

```
mongoexport --db MyDb --collection MyCollectionName --type json --out "D:\Christ\T1\Advanced Database Technology\Labs\Lab 9\json.json"
```

Output:

```
2024-09-12T17:20:38.186+0530    connected to: mongodb://localhost/
2024-09-12T17:20:38.197+0530    exported 5 records
```

 json	12-09-2024 17:20	JSON Source File	1 KB
--	------------------	------------------	------

Inference: The query to export json file out of the collection.


4. Export data from MongoDB to CSV

Query:

```
mongoexport --db MyDb --collection MyCollectionName --type csv --fields
"name,age,gender,diagnosis" --out "D:\Christ\T1\Advanced Database Technology\Labs\Lab
9\export.csv"
```

Output:

```
2024-09-12T17:17:58.126+0530    connected to: mongodb://localhost/
2024-09-12T17:17:58.139+0530    exported 5 records
```

 export.csv	12-09-2024 17:17	Excel.CSV	1 KB
--	------------------	-----------	------

Inference: The query to export csv file out of the collection.


5. Export only few records using filters(limit)

Query:

```
mongoexport --db MyDb --collection MyCollectionName --type csv --limit 2 --fields
"name,age,gender,diagnosis" --out "D:\Christ\T1\Advanced Database Technology\Labs\Lab
9\limitCSV.csv"
```

Output:

```
2024-09-12T18:09:20.285+0530    connected to: mongodb://localhost/
2024-09-12T18:09:20.294+0530    exported 2 records
```

 limitCSV.csv	12-09-2024 18:09	Excel.CSV	1 KB
--	------------------	-----------	------

Inference: The query to export csv file with limit out of the collection.