EX.NO.6 210701701

Import a JSON file from the command line. Apply the following actions with the data present in the JSON file where, projection, aggregation, remove, count, limit, skip and sort

AIM:

To import a JSON file from the command line and apply the following actions with the data present in the JSON file where, projection, aggregation, remove, count, limit, skip and sort using MongoDB.

PROCEDURE:

- 1. Open command prompt and run mongod to start the MongoDB server. 2. Then open another command prompt and run mongosh to activate MongoDB shell. 3. Create a database using use <database name>.
- 4. To import the JSON file use this command:

```
mongoimport --db --mydb --collection employees --file C:\Users\mercy\Downloads\employees.json --jsonArray
```

5. After importing the JSON file perform specific commands for projection, aggregation, remove, count, limit and sort.

OUTPUT:

```
Wicrosoft Windows [Version 10.8.22821.4837]
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C:\Users\mercy>mongoimport --version
mongoimport version: 100.18.8
git version: 801601be3fof673de04d20178e98ee02ef233d8
Go version: gol.21.11
os: windows
arch: and84
compiler: go

C:\Users\mercy> mongoimport --do mydb --collection employees --f 1e C:\Users\mercy\footnoods\/employees.json --jsonArray
2824-88-28T14:38:59.588-8530 connected to: mongodb:\/localhost/
2824-88-28T14:38:59.615+8930 15 document(s) imported successfully. 0 document(s) failed to import.

C:\Users\mercy>
```

```
mydb> db.employees.aggregate([
         { *group: { _id: "*department", totalEmployees: { *sum: 1 } } }
. . . ])
  { _id: 'Content', totalEmployees: 1 },
  { _id: 'Data', totalEmployees: 1 },
  { _id: 'IT', totalEmployees: 1 },
   { _id: 'Marketing', totalEmployees: 1 },
   { _id: 'HR', totalEmployees: 1 },
  { _id: 'Support', totalEmployees: 1 },
  { _id: 'Finance', totalEmployees: 1 },
   { _id: 'Engineering', totalEmployees: 3 },
   { _id: 'Design', totalEmployees: 2 },
   { _id: 'Business', totalEmployees: 1 },
   { _id: 'Product', totalEmployees: 1 },
   { _id: 'Sales', totalEmployees: 1 }
mydb> db.employees.remove({ salary: { %gt: 100000 } })
DeprecationWarming: Collection.remove() is deprecated. Use deleteOne, deleteWany, findOneAndDelete, or bulkWrite.
acknowledged: true, deletedCount: 1 }
mydb> db.employees.count({ department: "Engineering" })
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
```

```
mydb> db.employees.fi nd().limit(3)
    _id: ObjectId('66c84fcb1b3a03f1f1fb694b'),
    employee_id: 4,
    name: 'David Brown',
    position: 'UX Designer',
    department: 'Design',
    salary: 85000
  },
   _id: ObjectId('66c84fcb1b3a03f1f1fb694c'),
    employee_id: 13,
    name: 'Mia White',
    position: 'Sales Manager',
    department: 'Sales',
   salary: 98000
  }.
    _id: ObjectId('66c84fcb1b3a03f1f1fb694d'),
    employee_id: 14,
    name: 'Nate Harris'.
    position: 'Customer Support',
    department: 'Support',
    salary: 75000
mydb> db.employees.fl nd().skip(12)
```

```
mydb> db.employees.fi nd().skip(12)
{
    id: ObjectId('88c84fcb1b3a83f1f1fb8957'),
    employee_id: 1,
    name: 'Alice Smith',
    position: 'Software Engineer',
    department: 'Engineering',
    salary: 988660
},
{
    id: ObjectId('88c84fcb1b3a83f1f1fb8958'),
    employee_id: 8,
    name: 'Henry Moore',
    position: 'Finance Analyst',
    department: 'Finance',
    salary: 87860
}
```

```
mydb> db.employees.fi nd().sort({ salary: 1 })
   _id: ObjectId('68c84fcb1b3c83f1f1fb8958'),
   employee_id: 10,
   name: 'Jack Anderson',
   position: 'Content Writer',
   department: 'Content',
   salary: 72888
   _id: ObjectId('88c84fcb1b3c83f1f1fb884d'),
   employee_id: 14,
   name: 'Nate Harris',
   position: 'Customer Support',
   department: 'Support',
   salary: 75000
   _id: ObjectId('66c84fcb1b3c93f1f1fb6956'),
   employee_id: 7,
   name: 'Grace Wilson',
   position: 'HR Specialist',
   department: 'HR',
   salary: 78888
```

RESULT:

Thus to import a JSON file from the command line and apply the following actions with the data present in the JSON file where, projection, aggregation, remove, count, limit, skip and sort using MongoDB is completed successfully.