EX.NO.6 210701307

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:

```
test> use mydb
switched to db mydb
mydb> db.employees.fi nd({}, {name: 1, salary: 1, _id: @})
      { name: Brown', salary: 85000 },
                              Manufacte', salary: 98000 },
      { name:
                                { name:
                                Clark', salary: 82000 },
      { name:
                                bulleting of the state of 
      { name:
      name: "Make Anderson', salary: 72000 },
      { name: 'Kara Thomas', salary: 91000 },
      { name: 'Leo Jackson', salary: 94000 },
      { name: 'Frank Miller', salary: 99000 },
      { name: 'Bob Johnson', salary: 95000 },
      { name: 'Eva Davis', salary: 92000 },
      { name: 'Grace Wilson', salary:
      { name: 'Alice Smith', salary: 90000 },
      { name: 'Henry Moore', salary: 87000 },
      { name: 'Carol Williams', salary: 105000 }
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({ solory: { sgt: 100000 } })

DeprecationMarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, fi ndOneAndDelete, or bulkMrite.

{ acknowledged: true, deletedCount: 1 }

mydb> db.employees.count({ department: "Engineering" })

DeprecationMarning: 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.fi nd().sort({ salary: 1 })
   _id: ObjectId('88c84fcb1b3c83f1f1fb8958'),
   employee_id: 10,
   name: 'Jack Anderson',
   position: 'Content Writer',
   department: 'Content',
   salary: 72888
    _id: ObjectId('68c84fcb1b3c83fif1fb894d'),
    employee_id: 14,
   name: 'Nate Harris',
   position: 'Customer Support',
   department: 'Support',
   salary: 75000
   _id: ObjectId('66c84fcb1b3c83fif1fb6856'),
   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.