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:

```
Microsoft Windows [Version 10.0.22821.4037]
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C:\Users\mercy>mongoimport --version
mongoimport version: 100.10.0
git version: 6d4f001be3fcf673de04d20176e90ee02ef233a9
Go version: go1.21.11
os: windows
arch: amd64
compiler: gc

C:\Users\mercy> mongoimport --db mydb --collection employees --fi le C:/Users/mercy/Downloads/employees.json --jsonArray
2024-08-23744:30:59.588+0530 connected to: mongodb://localhost/
2024-08-23714:30:59.615+0530 15 document(s) imported successfully. 0 document(s) failed to import.

C:\Users\mercy>
```

```
test> use mydb
switched to db mydb
mydb> db.employees.fi nd({}, {name: 1, salary: 1, _id: 0})
  { name: "Bawid Brown', salary: 85000 },
  { name: "Mid White', salary: 98000 },
  { name: Make Harris', salary: 75000 },
  "Iva Raylor', salary: 83000 },
  { name:
  { name: 'Jaak 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: 78000 },
  { name: 'Alice Smith', salary: 90000 },
  { name: 'Henry Moore', salary: 87000 },
  { name: 'Carol Williams', salary: 105000 }
```

```
mydb> db.employees.remove({ salary: { sgt: 100000 } })
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, fi ndOneAndDelete, 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.fi nd().skip(12)
{
    _id: ObjectId('66c84fcb1b3a03f1f1fb6957'),
    employee_id: 1,
    name: 'Alice Smith',
    position: 'Software Engineer',
    department: 'Engineering',
    salary: 90000
},
{
    _id: ObjectId('66c84fcb1b3a03f1f1fb6958'),
    employee_id: 8,
    name: 'Henry Moore',
    position: 'Finance Analyst',
    department: 'Finance',
    salary: 87000
}
```

```
mydb> db.employees.fi nd().sort({ salary: 1 })
    _id: ObjectId('66c84fcb1b3a03f1f1fb6950'),
   employee_id: 10,
   name: 'Jack Anderson',
   position: 'Content Writer',
   department: 'Content',
   salary: 72000
 },
   _id: ObjectId('66c84fcb1b3a03f1f1fb694d'),
   employee_id: 14,
   name: 'Nate Harris',
   position: 'Customer Support',
   department: 'Support',
   salary: 75000
    _id: ObjectId('66c84fcb1b3α03f1f1fb6956'),
   employee_id: 7,
   name: 'Grace Wilson',
   position: 'HR Specialist',
   department: 'HR',
    salary: 78000
```

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.