

CSE 5531-001 DBMS MODELS AND IMPLEMENTATION

SUMMER 2020

PROJECT 2(EXTRA CREDIT)

TEAM :

VYSALI PUGHAZHENDI(1001750473)

NITHYA BALASUNDAR (1001763661)

EXTRA CREDIT:

Merging Manager Details from EMPLOYEE into DEPARTMENT:

```
db.DEPARTMENT.aggregate(
```

```
[
  {
    '$lookup': {
      'from': 'EMPLOYEE',
      'localField': 'Mgr_ssn',
      'foreignField': 'Ssn',
      'as': 'MgrDetails'
    }
  }, {
    '$unwind': {
      'path': '$MgrDetails'
    }
  }, {
    '$project': {
      'Dname': 1,
      'Dnumber': 1,
      'MgrDetails.Fname': 1,
      'MgrDetails.Lname': 1
    }
  }, {
    '$out': 'MgrDetails'
  }
])
```

Merging EmployeeDetails into Department :

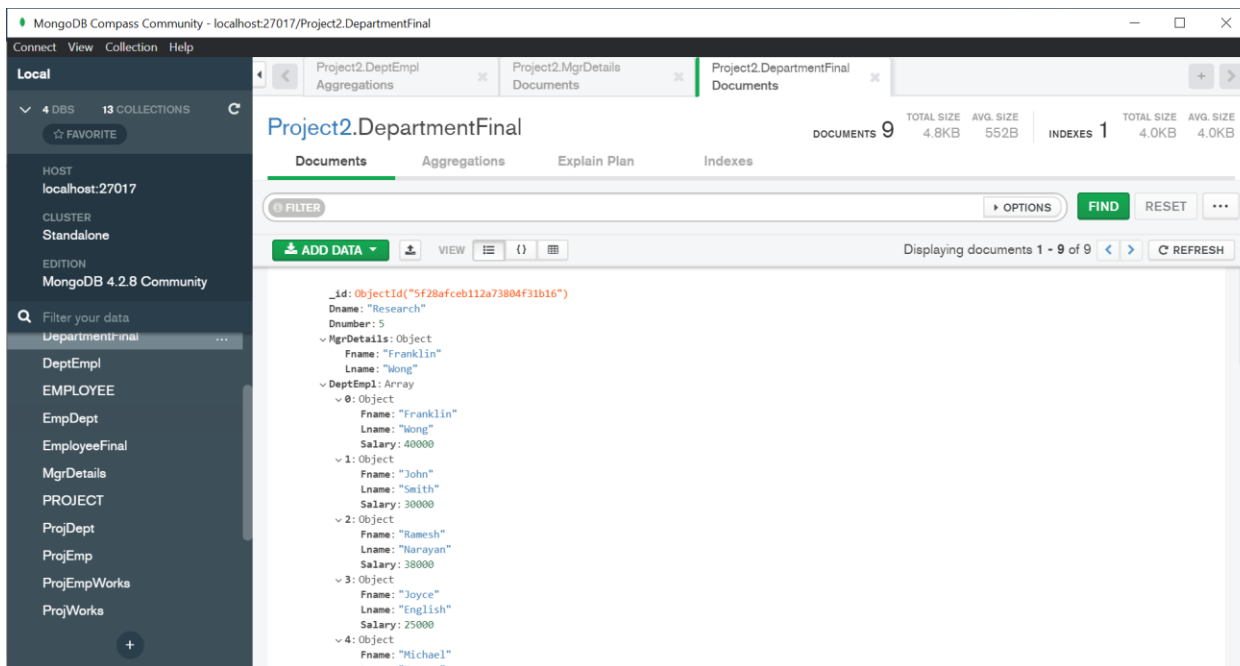
```
db.DEPARTMENT.aggregate(
```

```
[
  {
    '$lookup': {
      'from': 'EMPLOYEE',
      'localField': 'Dnumber',
      'foreignField': 'Dno',
      'as': 'DeptEmpl'
    }
  }, {
    '$project': {
      'Dname': 1,
      'Dnumber': 1,
      'DeptEmpl.Fname': 1,
      'DeptEmpl.Lname': 1,
      'DeptEmpl.Salary': 1
    }
  }, {
    '$out': 'DeptEmpl'
  }
])
```

Merging MgrDetails and DeptEmpl:

```
db.DeptEmpl.aggregate(
[
  {
    '$lookup': {
      'from': 'MgrDetails',
      'localField': 'Dnumber',
      'foreignField': 'Dnumber',
      'as': 'DepartmentFinal'
    }
  }
])
```

```
}, {
  '$replaceRoot': {
    'newRoot': {
      '$mergeObjects': [
        {
          '$arrayElemAt': [
            '$DepartmentFinal', 0
          ]
        }, '$$ROOT'
      ]
    }
  }
}, {
  '$project': {
    'DepartmentFinal': 0
  }
}, {
  '$out': 'DepartmentFinal'
}
])
```



XML DOCUMENT :

The XML file was created using an online tool.

<https://www.convertjson.com/json-to-xml.htm>