**Bonus:**

1. Install Redis database, and try to insert and select data from it.

SET name “ahmed”

GET name

SET person:student "{"name":"yossr","age":22,"faculty":"science"}"

GET person:student

LPUSH courses "math"

LPUSH courses "physics"

LPUSH courses "electronics"

LRANGE courses 0 -1

1. Retrieve and insert to MongoDB using a nodeJs

let mongo = require('mongodb').MongoClient

let dbUrl = "mongodb://localhost"

mongo.connect(dbUrl, (err,db)=>{

const mydb=db.db('FacultySystemV2')

mydb.collection('student').insertOne({

"fristname":"yossr",

"lastname":"mohamed",

isFired:false,

"facultyID":[

{courseID:402, grade:"C"},

{courseID:404, grade:"D"},

],

},(err,res)=>{

console.log("done")

})

mydb.collection('student').find({}).toArray((error,res)=>{

console.log(res)

db.close()

})

})

1. Display each student along with his grades in course he studied from FacultySystemV2.

db.student.aggregate([{$lookup:{from:'course',localField:"facultyID.courseID",foreignField:'courseID', as: 'student\_grades'}}])

another answer:

db.student.find({},{"fristname":1, "lastname":1,"facultyID":1})

1. Add your own key to any collection.