

Compass



{ } My Queries

CONNECTIONS (1)



▼ FacultySystemDB.

▼ FacultySystemDB

student

▼ FacultySystemV2

course

faculty

student

▼ admin

▼ config

▼ local

startup_log

> mongosh: FacultySyste...



> _MONGOSH



> use FacultySystemV2

< switched to db FacultySystemV2

> db["student"].find()

<

> db.student.insertMany([

{

FirstName: "Mrihan",

LastName: "Mohamed",

IsFired: false,

FacultyID: 1,

Grades: [

{ CourseID: 101, grade: 95 },

{ CourseID: 102, grade: 88 }

]

},

{

FirstName: "Ahmed",

LastName: "Ali",

IsFired: true,

FacultyID: 2,

Grades: [

{ CourseID: 103, grade: 70 }

]

}

])

< {

acknowledged: true,

insertedIds: {

'0': ObjectId('686e5432f4a68081ecaf0275'),



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```
  insertedIds: {
    '0': ObjectId('686e5432f4a68081ecaf0275'),
    '1': ObjectId('686e5432f4a68081ecaf0276')
  }
}

> db.course.insertMany([
  { _id: 101, Name: "JS", FinalMark: 100 },
  { _id: 102, Name: "C#", FinalMark: 100 },
  { _id: 103, Name: "DB", FinalMark: 100 }
])
< {
  acknowledged: true,
  insertedIds: {
    '0': 101,
    '1': 102,
    '2': 103
  }
}

> db.faculty.insertMany([
  { _id: 1, Name: "FCI", Address: "Minia" },
  { _id: 2, Name: "Engineering", Address: "Cairo" }
])
< {
  acknowledged: true,
  insertedIds: {
    '0': 1,
    '1': 2
  }
}
```



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```
> db.student.aggregate([
  {
    $unwind: "$Grades"
  },
  {
    $lookup: {
      from: "course",
      localField: "Grades.CourseID",
      foreignField: "_id",
      as: "CourseInfo"
    }
  },
  {
    $unwind: "$CourseInfo"
  },
  {
    $project: {
      _id: 0,
      FirstName: 1,
      LastName: 1,
      Course: "$CourseInfo.Name",
      StudentGrade: "$Grades.grade",
      CourseFinalMark: "$CourseInfo.FinalMark"
    }
  }
])
< {
  FirstName: 'Mrihan',
  LastName: 'Mohamed'
```



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```
    LastName: 1,
    Course: "$CourseInfo.Name",
    StudentGrade: "$Grades.grade",
    CourseFinalMark: "$CourseInfo.FinalMark"
  }
}
])
< {
  FirstName: 'Mrihan',
  LastName: 'Mohamed',
  Course: 'JS',
  StudentGrade: 95,
  CourseFinalMark: 100
}
{
  FirstName: 'Mrihan',
  LastName: 'Mohamed',
  Course: 'C#',
  StudentGrade: 88,
  CourseFinalMark: 100
}
{
  FirstName: 'Ahmed',
  LastName: 'Ali',
  Course: 'DB',
  StudentGrade: 70,
  CourseFinalMark: 100
}
}
```

FacultySystemV2 >

