[{$unwind: {

path: "$courses"

}}, {$group: {

\_id: "$\_id",

grade: {

$avg: "$courses.grade"

}

}}, {$lookup: {

from: 'student',

localField: '\_id',

foreignField: '\_id',

as: 'student'

}}, {$replaceRoot: {

newRoot:

{$mergeObjects:[

{$arrayElemAt:["$student",0]},

"$$ROOT"

]

}

}}, {$project: {

"full name":{$concat:["$firstName"," ", "$lastName"]},

grade:"$grade"

}}]

