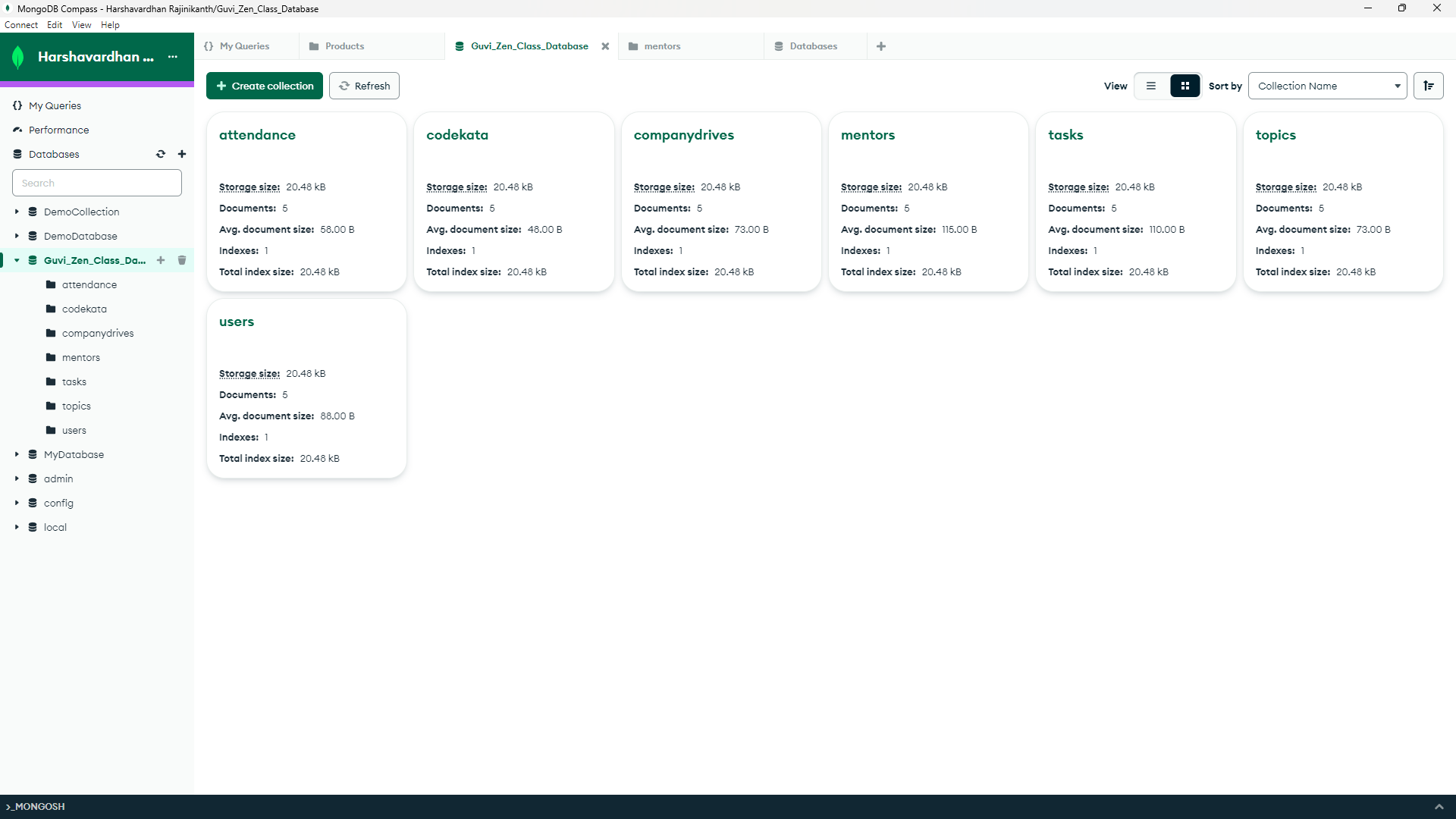
**MongoDB Task-2**

****

1. **Find all the topics and tasks which are thought in the month of October :**

**Query:**

db.topics.aggregate([

{

$lookup: {

from: "tasks",

localField: "topicid",

foreignField: "topicid",

as: "taskinfo"

}

},

{

$match: {

$and: [

{ topic\_date: { $gte: new Date("2020-10-01"), $lt: new Date("2020-11-01") } },

{

$or: [

{ "taskinfo.due\_date": { $gte: new Date("2020-10-01"), $lt: new Date("2020-11-01") } },

{ "taskinfo.due\_date": { $exists: false } }

]

}

]

}

},

{

$project: {

\_id: 0,

topicid: 1,

topic: 1,

topic\_date: 1,

tasks: "$taskinfo.task",

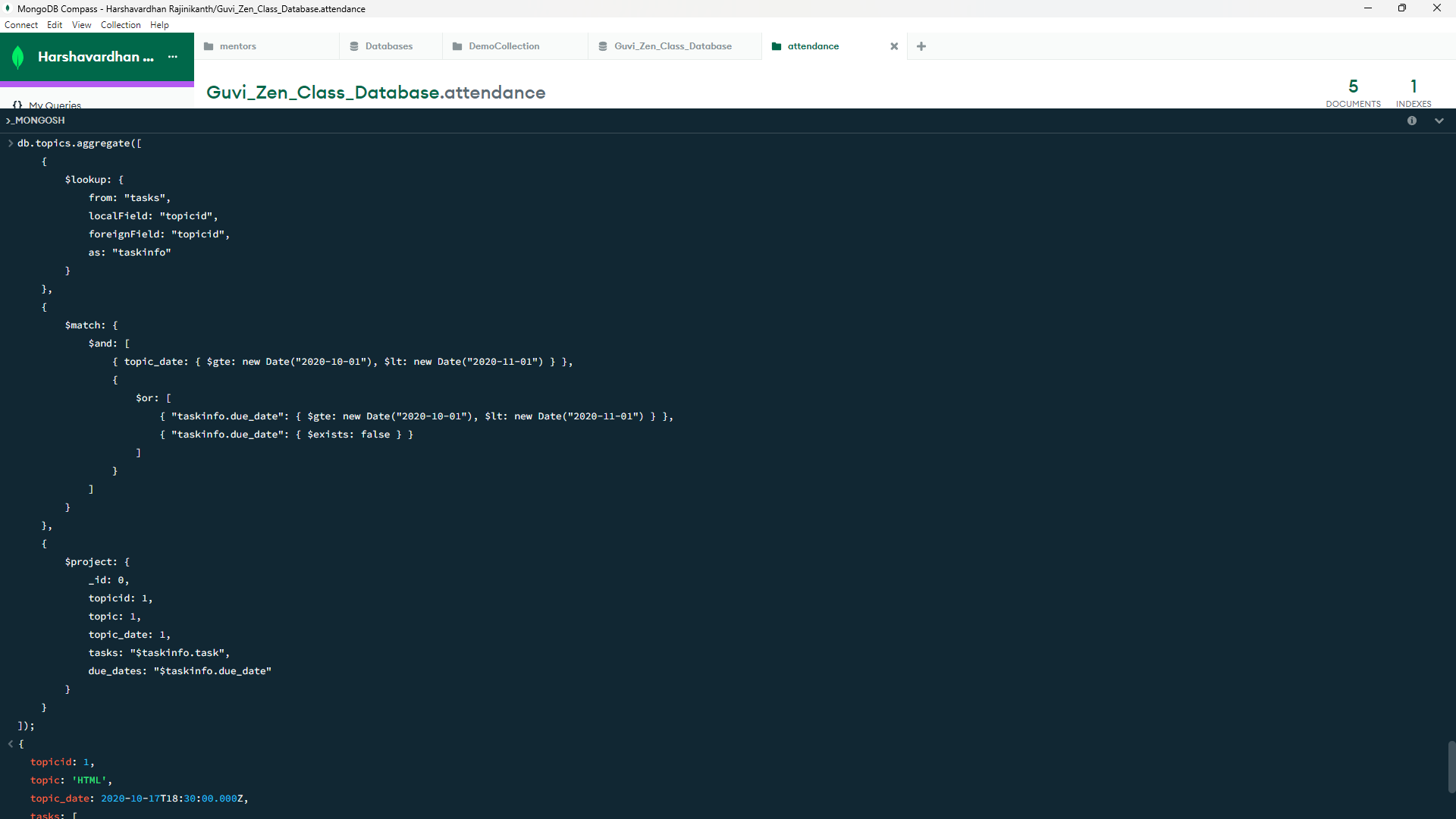
due\_dates: "$taskinfo.due\_date"

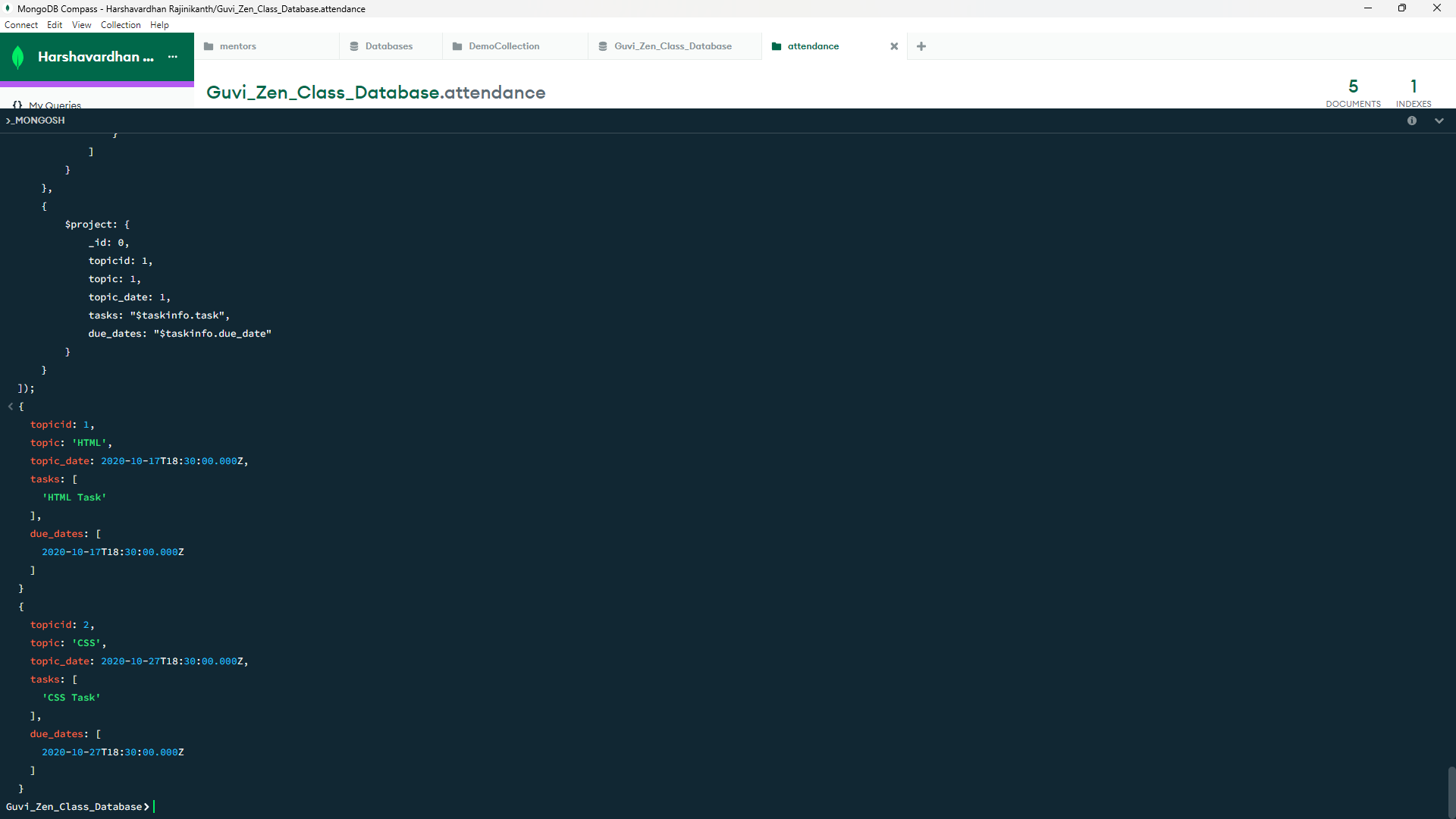
}

}

]);

**Output:**





1. **2. Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020:**

Query:q**Query:**

db.companydrives.find({

$or: [

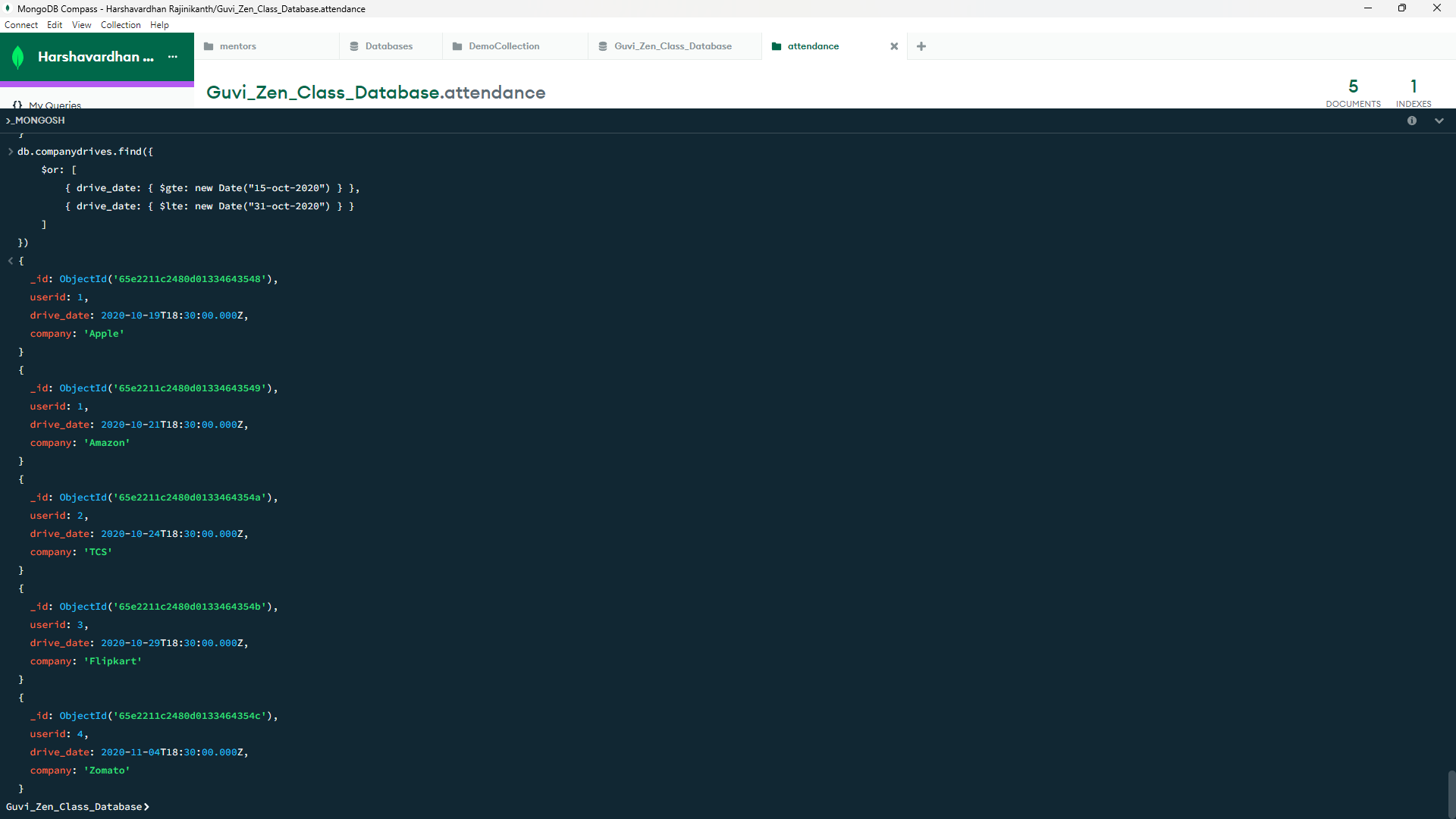
{ drive\_date: { $gte: new Date("15-oct-2020") } },

{ drive\_date: { $lte: new Date("31-oct-2020") } }

]

});

**Output:**

****

**3.Find all the company drives and students who are appeared for the placement :**

**Query:**

db.codekata.aggregate([

{

$lookup: {

from: "users",

localField: "userid",

foreignField: "userid",

as: "userinfo"

}

},

{

$group: {

\_id: {

userid: "$userid",

username: "$userinfo.name"

},

total\_problems\_solved: { $sum: "$problems" }

}

},

{

$project: {

\_id: 0,

userid: "$\_id.userid",

username: "$\_id.username",

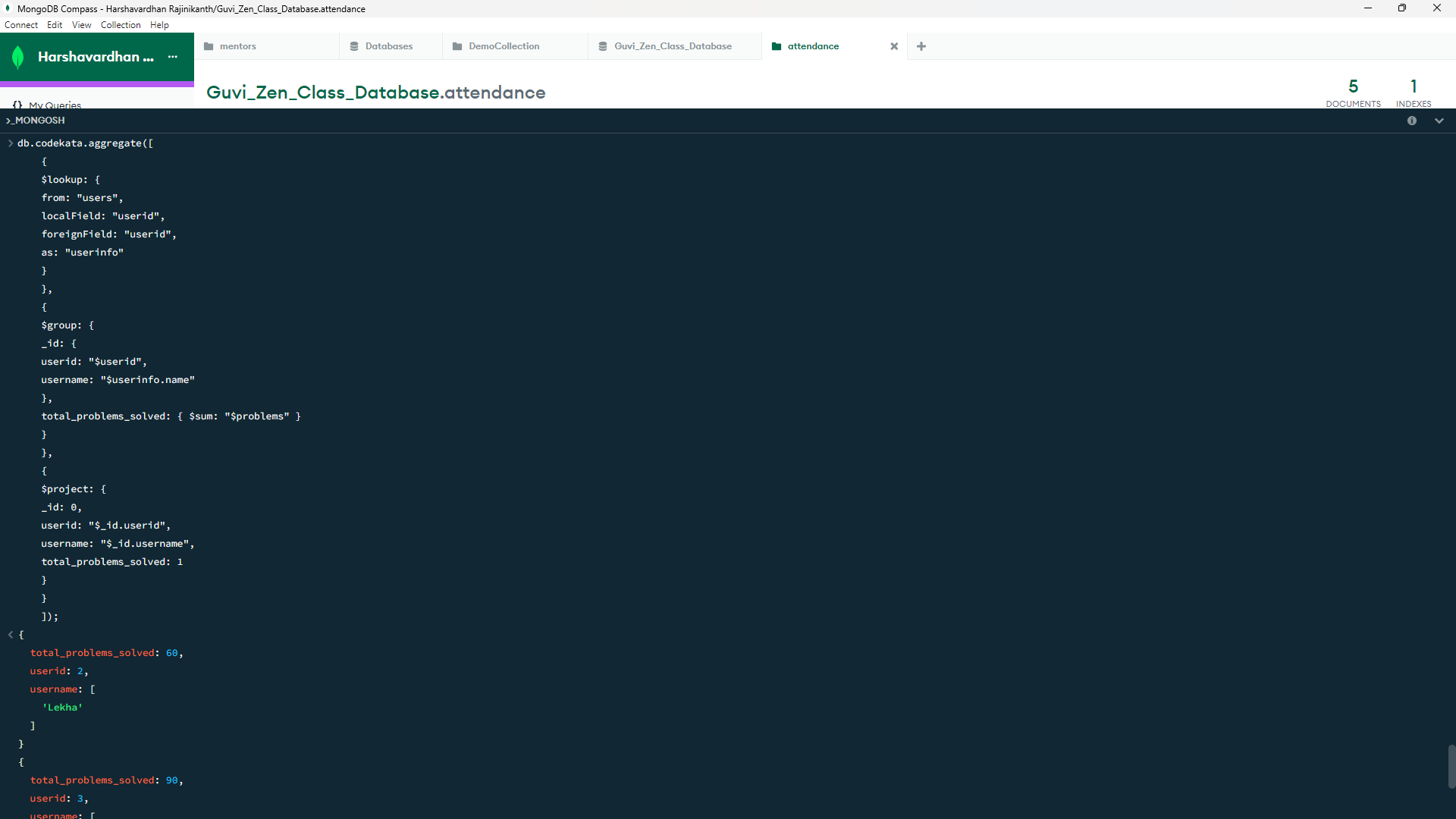
total\_problems\_solved: 1

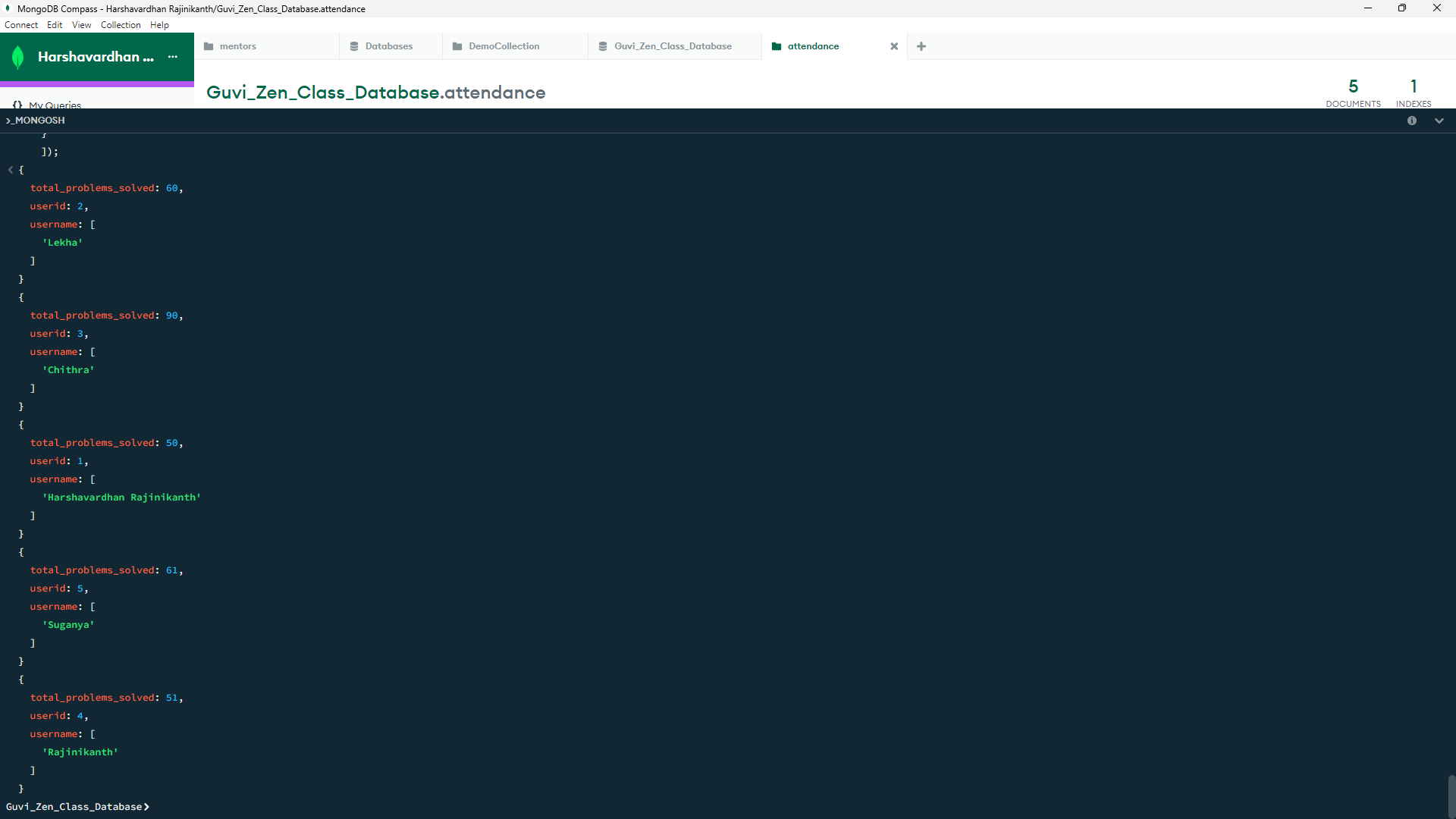
}

}

]);

**Output:**

****

****

**4.Find the number of problems solved by the user in codekata :**

**Query:**

db.codekata.aggregate([

{

$lookup: {

from: "users",

localField: "userid",

foreignField: "userid",

as: "userinfo"

}

},

{

$project:{

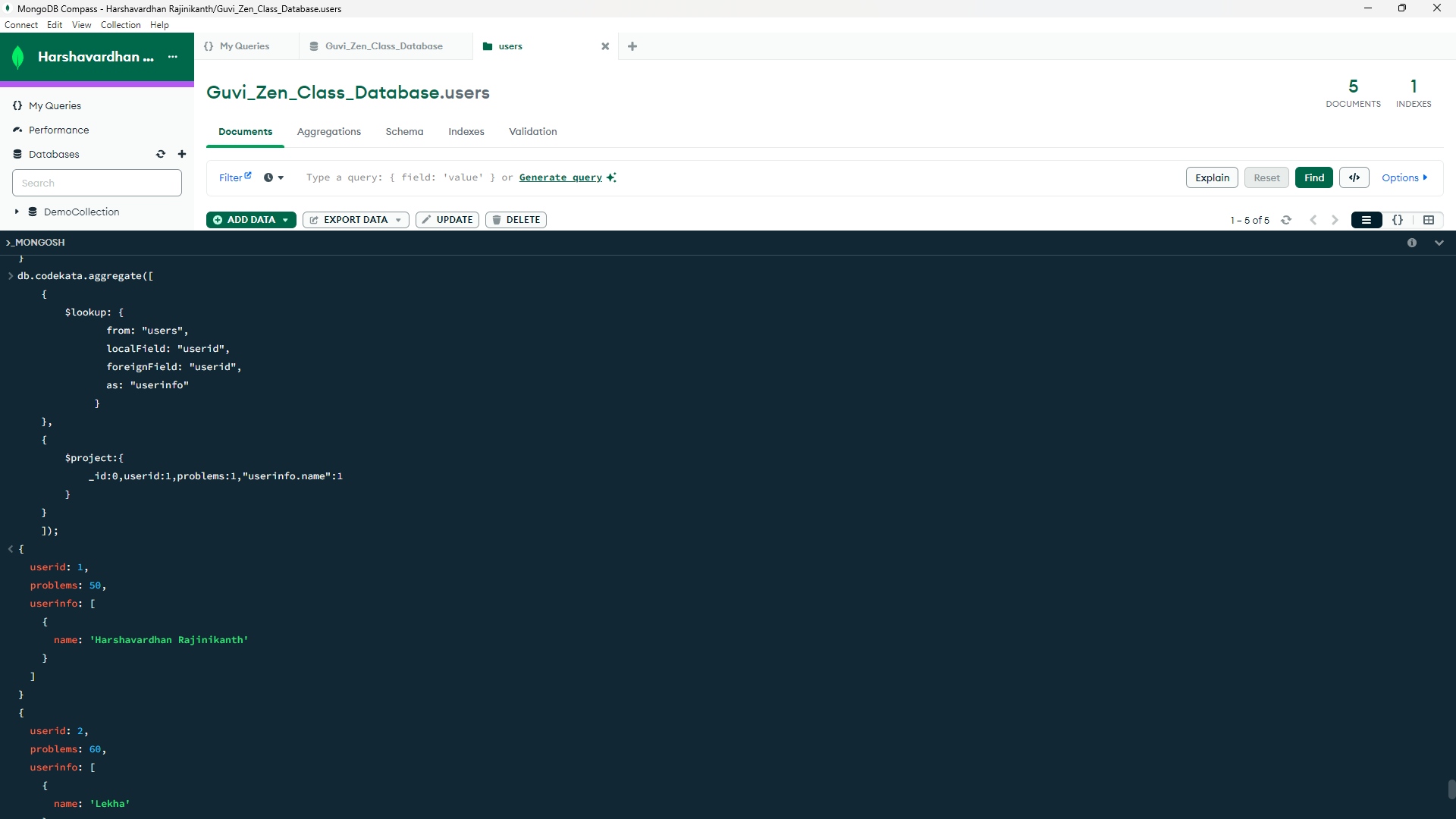
\_id:0,userid:1,problems:1,"userinfo.name":1

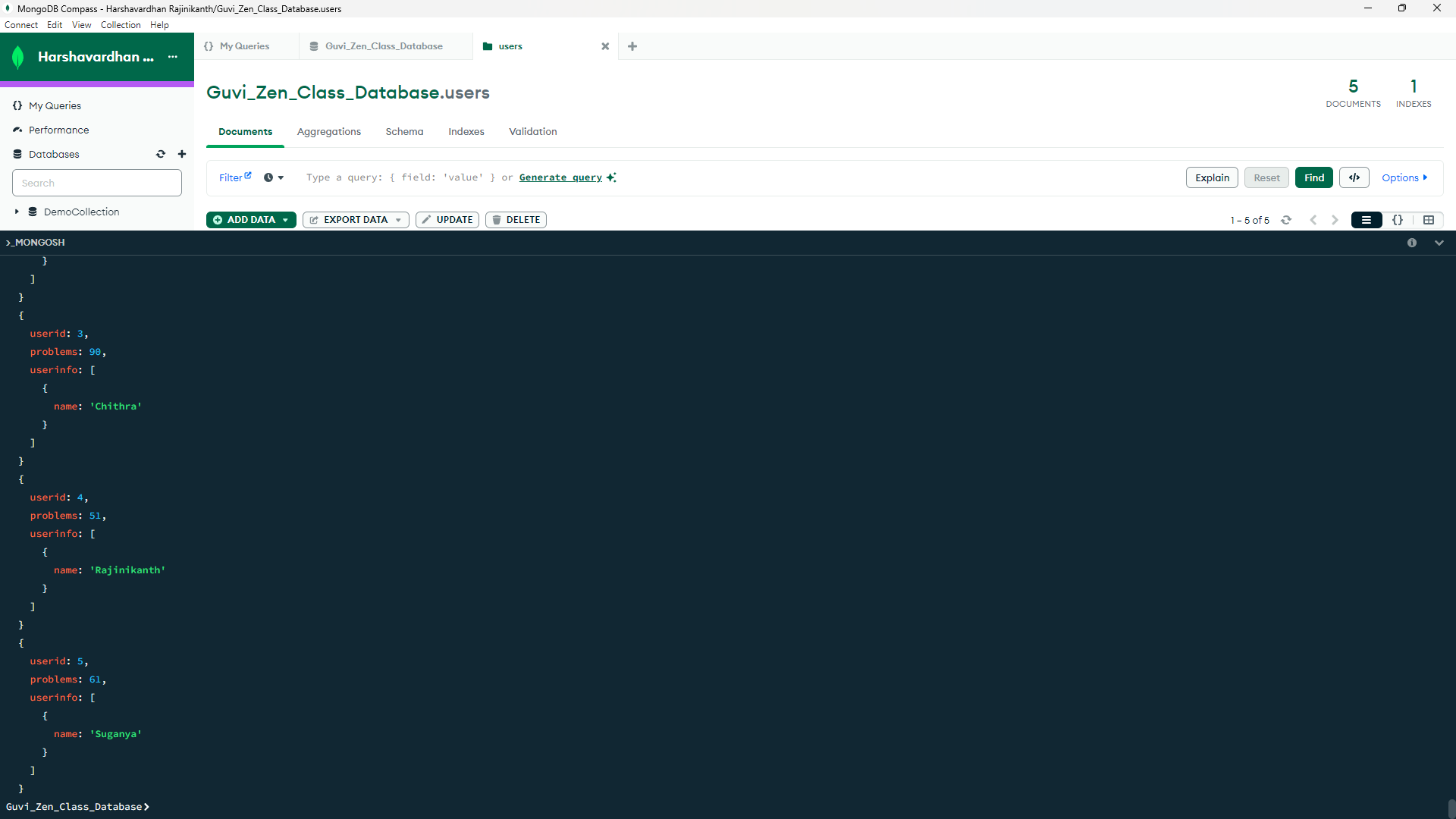
}

}

]);

**Output:**

****

****

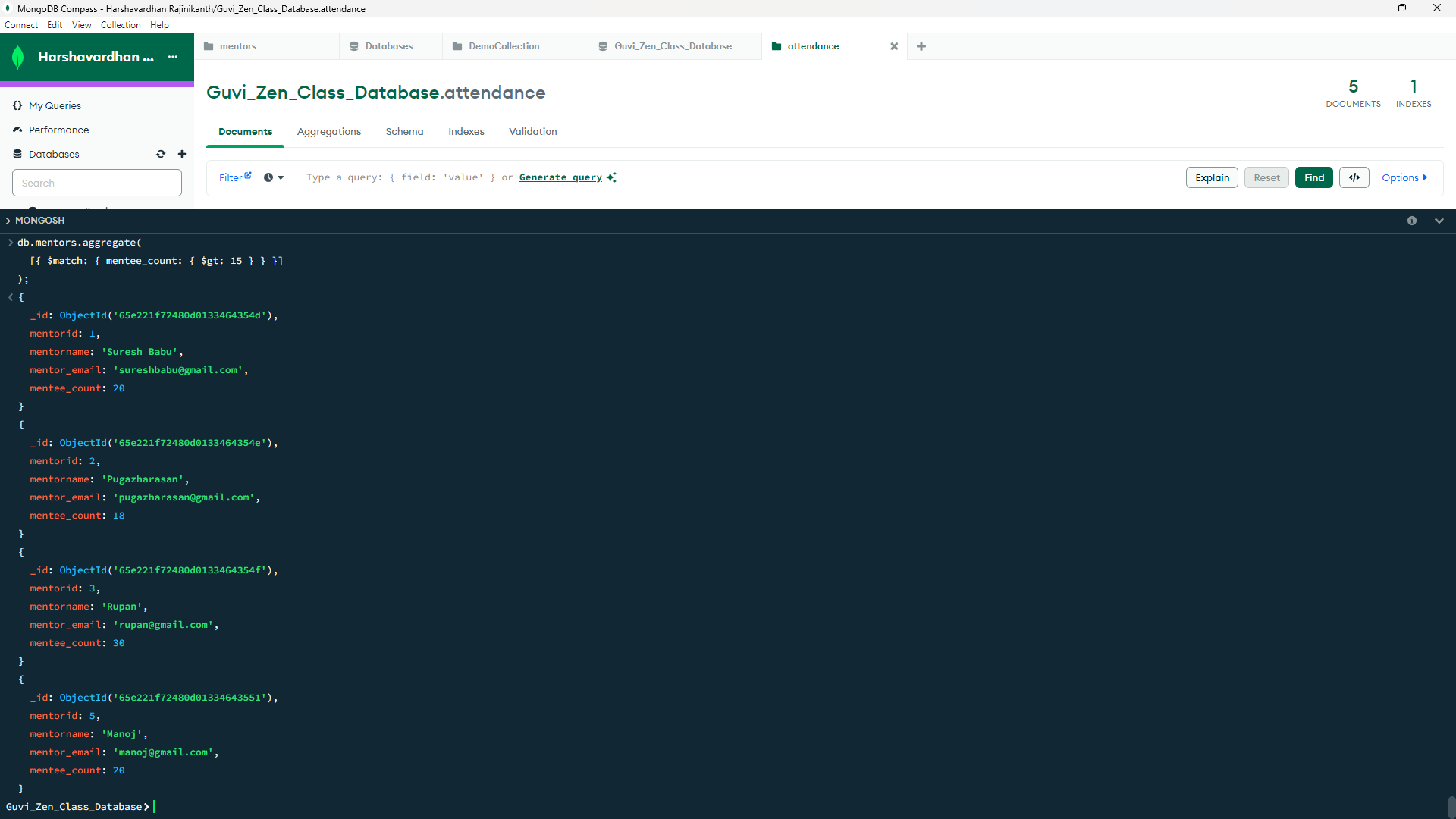
**5.Find all the mentors with who has the mentee's count more than 15 :**

**Query:**

db.mentors.aggregate(

[{ $match: { mentee\_count: { $gt: 15}}}]);

**Output:**

****

**6. Find the number of users who are absent and task is not submitted  between 15 oct-2020 and 31-oct-2020 :**

**Query:**

db.attendance.aggregate([

{

$lookup: {

from: "topics",

localField: "topicid",

foreignField: "topicid",

as: "topics"

}

},

{

$lookup: {

from: "tasks",

localField: "topicid",

foreignField: "topicid",

as: "tasks"

}

},

{

$match: {

attended: false,

"tasks.submitted": false,

$and: [

{ "topics.topic\_date": { $gte: new Date("15-oct-2020") } },

{ "topics.topic\_date": { $lte: new Date("31-oct-2020") } },

{ "tasks.due\_date": { $gte: new Date("15-oct-2020") } },

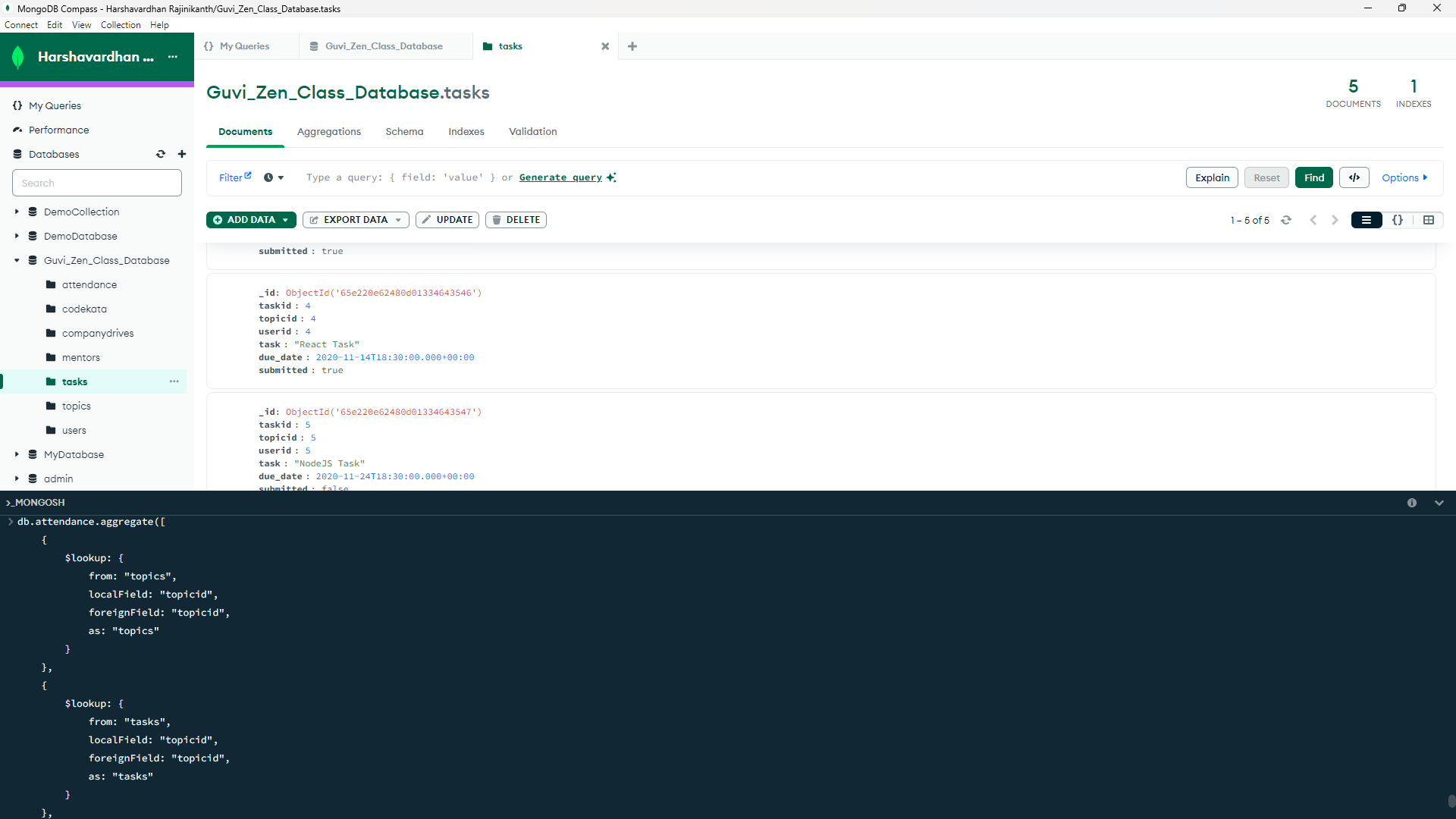
{ "tasks.due\_date": { $lte: new Date("31-oct-2020") } }

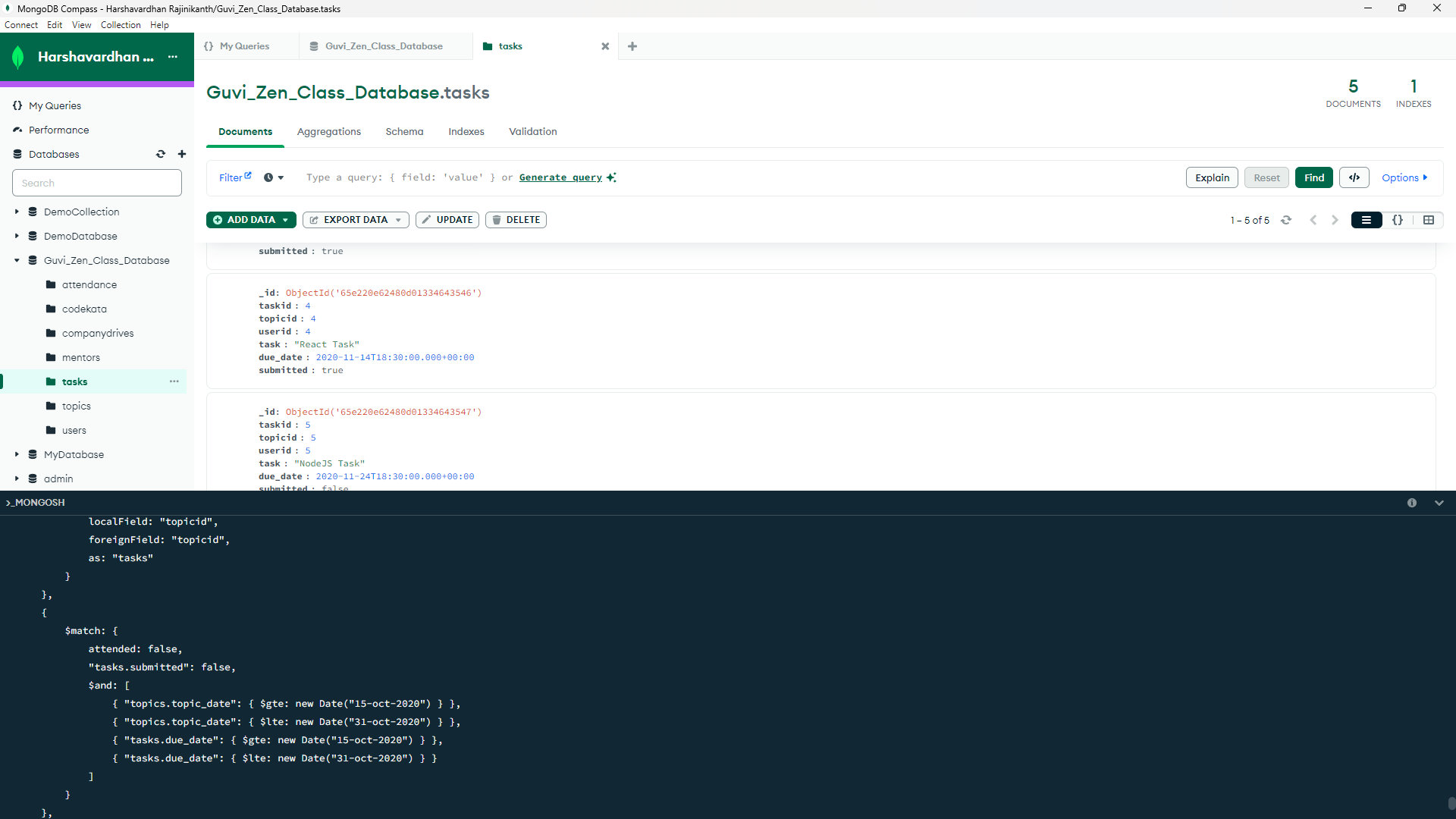
]

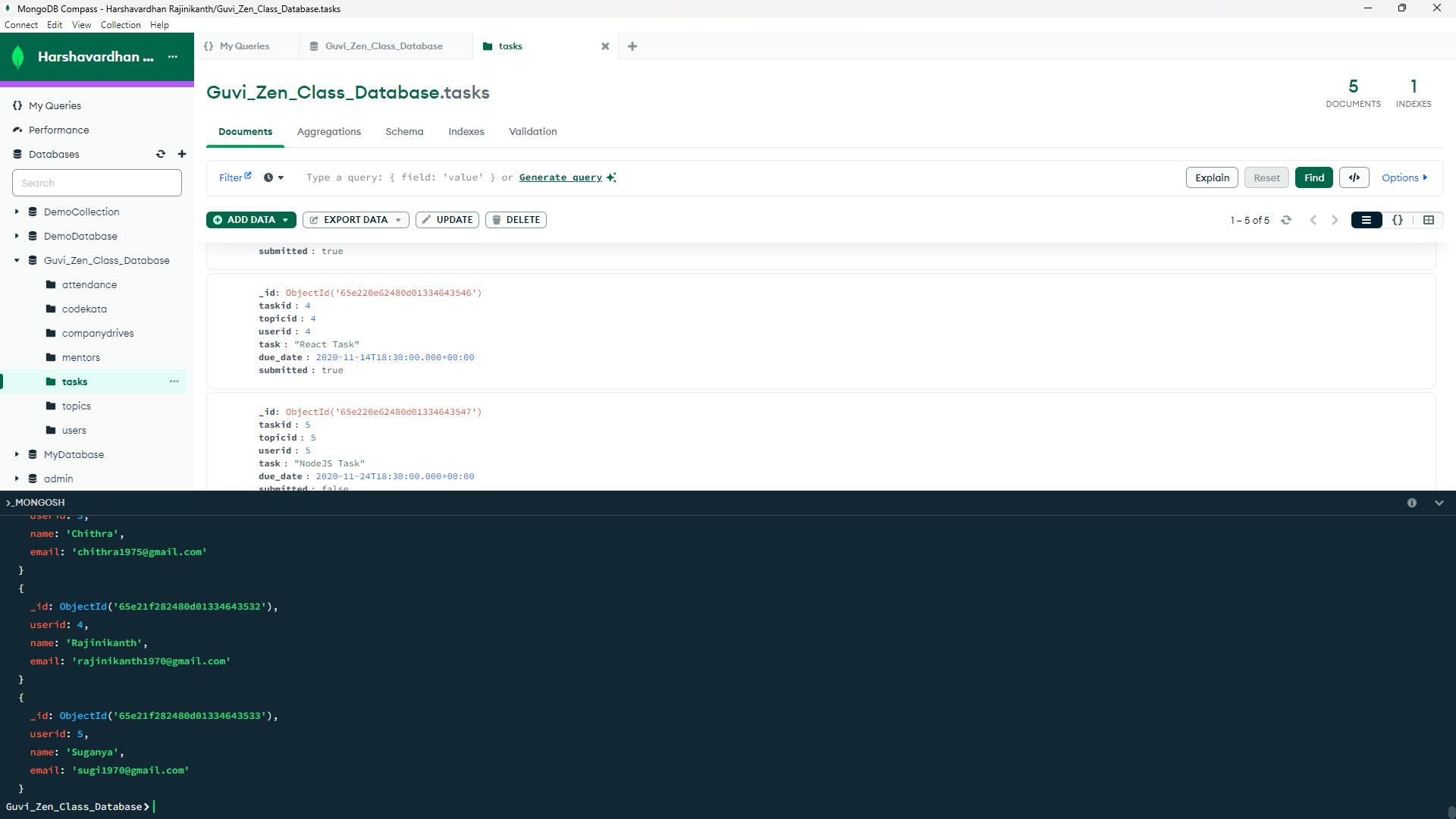
}

}]);

**Output:**

****

****

****