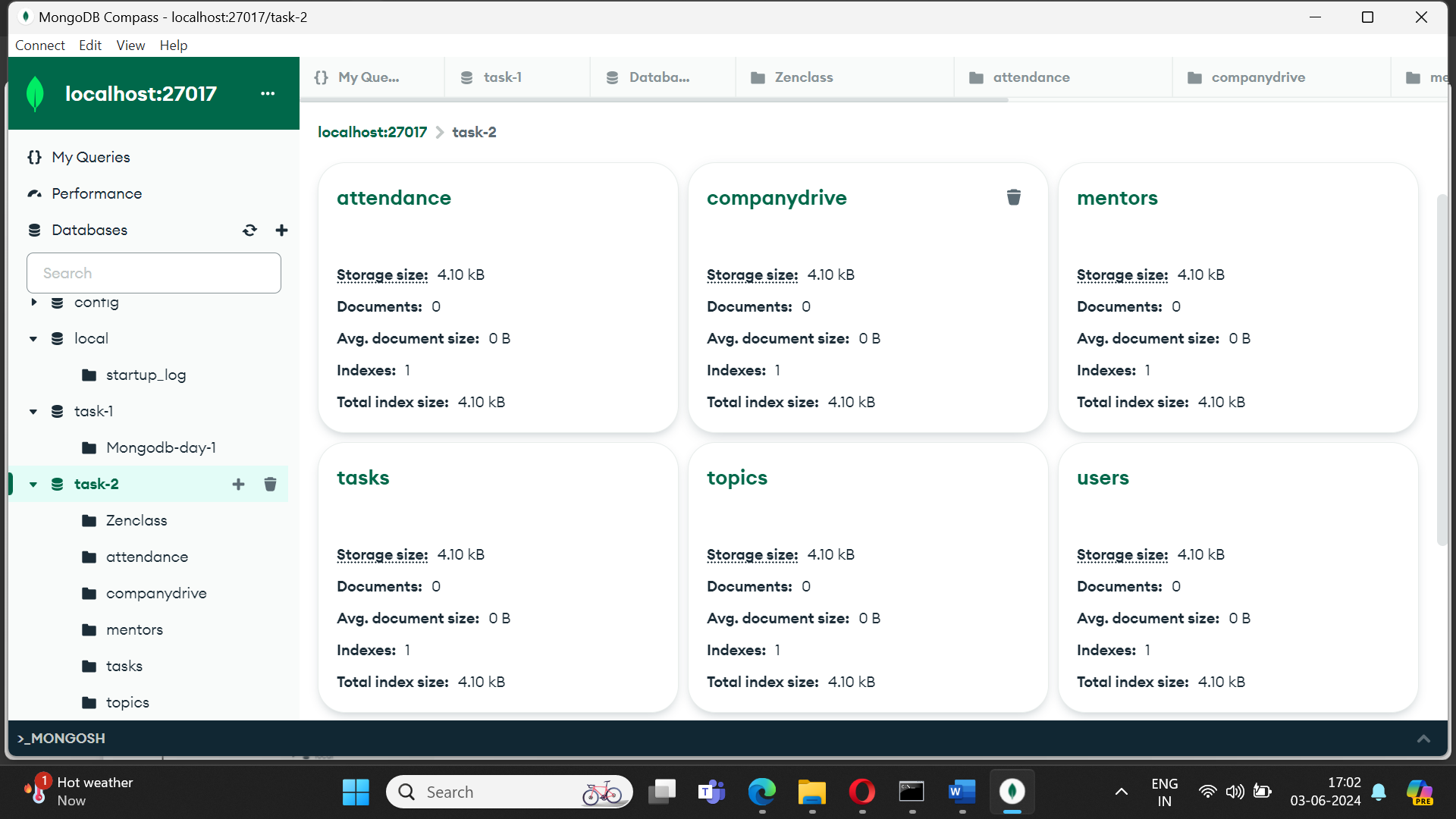
**MongoDB Task-2**

**Output:**



**Queries:**

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

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"

}

}]);

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

db.companydrives.find({

$or: [

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

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

]

});

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

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

}

}

]);

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

db.codekata.aggregate([

{

$lookup: {

from: "users",

localField: "userid",

foreignField: "userid",

as: "userinfo"

}

},

{

$project:{

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

}

}

]);

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

db.mentors.aggregate(

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

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

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") } }

]

}

}]);