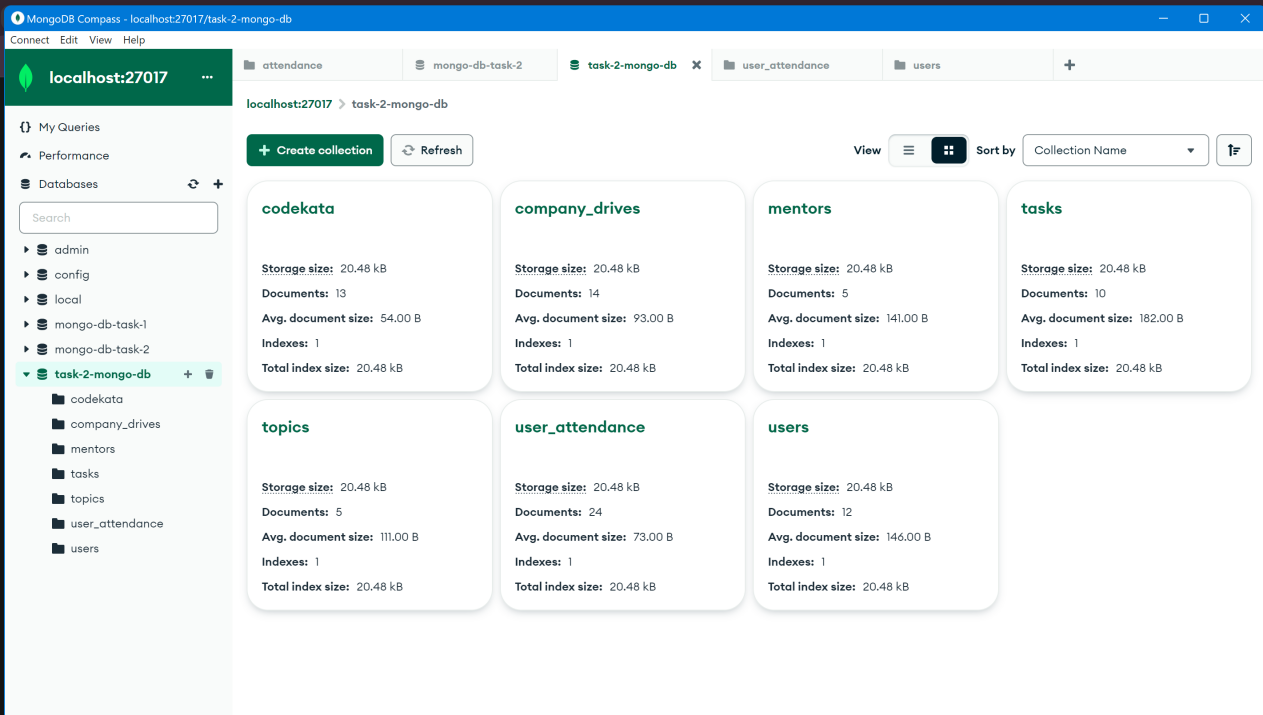
***Mongo-DB-Task-2***



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

**Query:**

db.topics.aggregate([

{

$match: {

topic\_held\_on: { $gte: new Date('2020-10-01T00:00:00.000Z'), $lt: new Date('2020-11-01T00:00:00.000Z') }

}

},

{

$lookup: {

from: 'tasks',

localField: 'topic\_id',

foreignField: 'Topic\_id',

as: 'tasks'

}

},

{

$unwind: '$tasks'

},

{

$project: {

\_id: 0,

topic\_name: 1,

topic\_id: 1,

topics\_covered\_by: 1,

topic\_held\_on: 1,

task: '$tasks.task',

task\_status: '$tasks.task\_status',

task\_assigned\_date: '$tasks.task\_assigned\_date',

task\_dueDate: '$tasks.task\_dueDate',

task\_completed: '$tasks.task\_completed',

submitted: '$tasks.submitted'

}

},

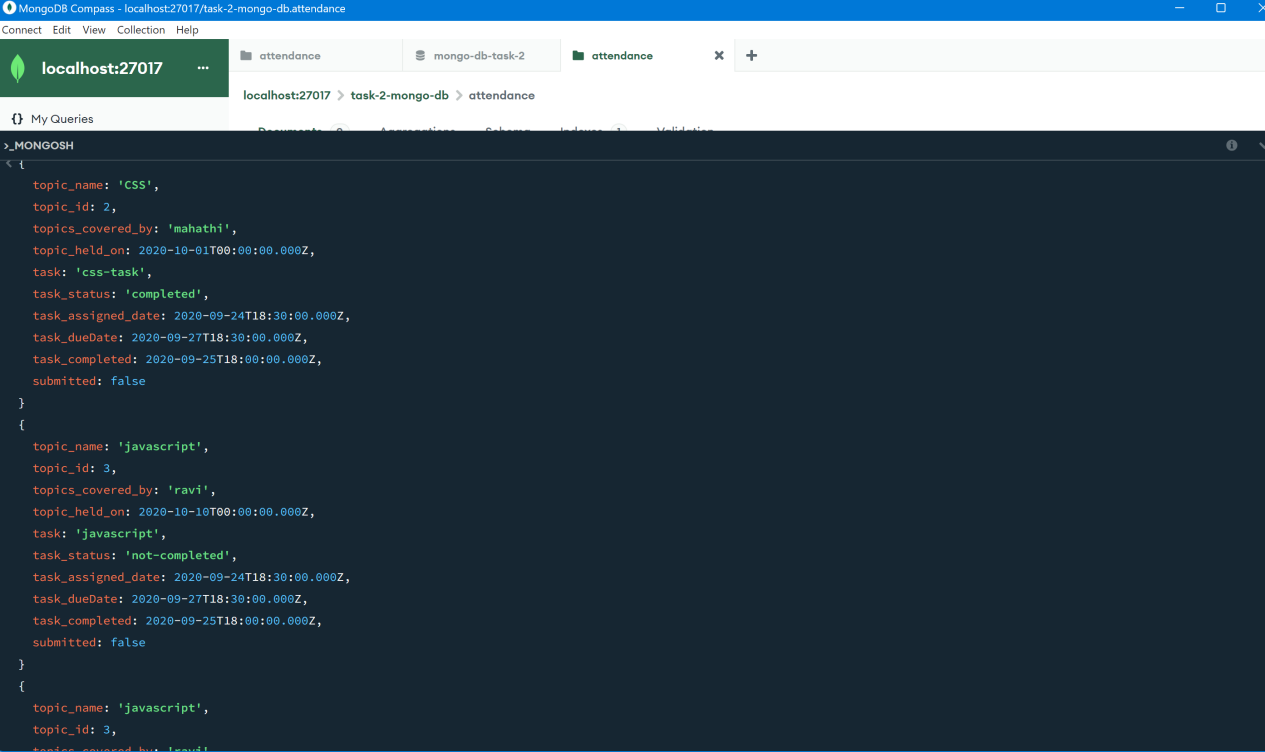
{

$sort: { topic\_id: 1, task\_assigned\_date: 1 }

}

]).pretty()

**Screen Shot:**



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

**Query:**

db.company\_drives.aggregate([

{

$match: {

date: { $gte: ISODate("2020-10-15T00:00:00.000Z"), $lte: ISODate("2020-10-31T23:59:59.999Z") }

}

},

{

$group: {

\_id: '$companyName',

drives: { $push: { user\_id: '$user\_id', date: '$date', attendance: '$attendance' } }

}

},

{

$project: {

\_id: 0,

companyName: '$\_id',

drives: 1

}

},

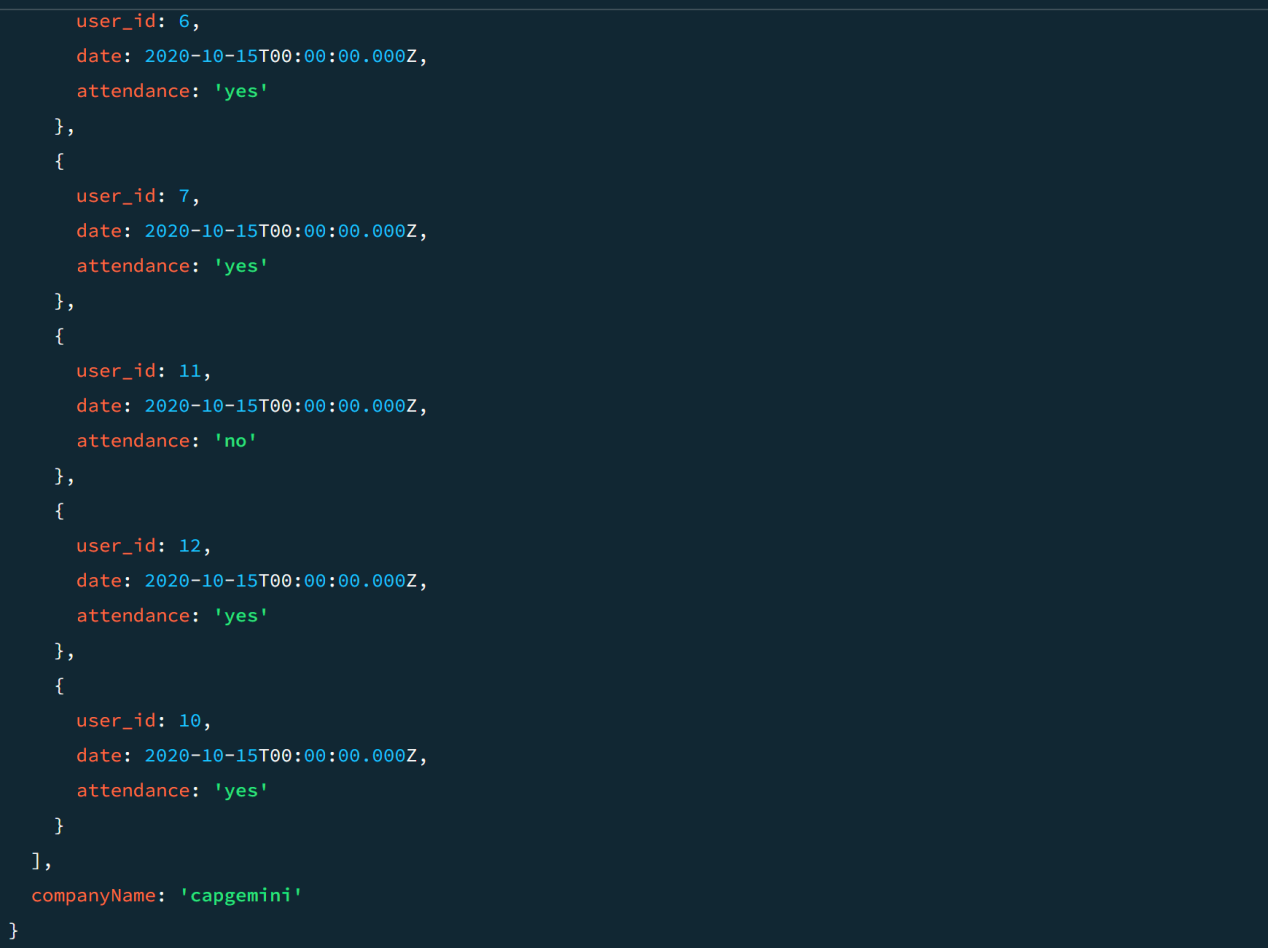
{

$sort: { companyName: 1 }

}

]).pretty();

**Screen Shot:**



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

**Query:**

db.company\_drives.aggregate([

{

$match: {

attendance: 'yes' }

},

{

$lookup: {

from: 'users',

localField: 'user\_id',

foreignField: 'user\_id',

as: 'user\_info'

}

},

{

$unwind: '$user\_info'

},

{

$group: {

\_id: {

company\_name: '$companyName',

user\_name: '$user\_info.user\_name'

},

X` }

},

{

$group: {

\_id: '$\_id.company\_name',

appeared\_users: {

$push: {

user\_name: '$\_id.user\_name'

}

}

}

},

{

$project: {

\_id: 0,

companyName: '$\_id',

appeared\_users: 1

}

},

{

$sort: {

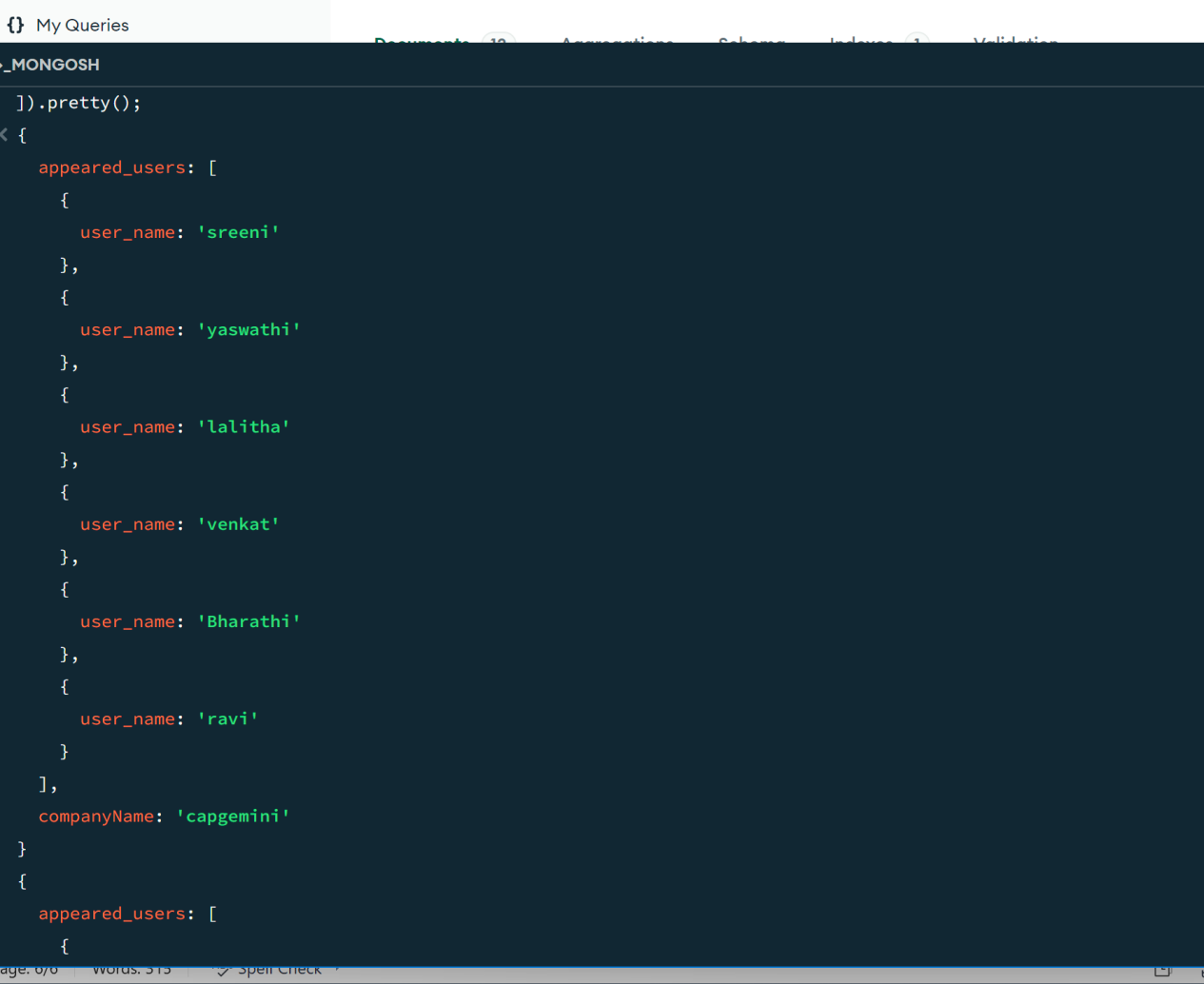
'companyName': 1

}

}

]).pretty();

**ScreenShot:**



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

**Query:**

db.codekata.aggregate([

{

$group: {

\_id: '$user\_id',

totalProblemsSolved: { $sum: '$problemSolved' }

}

},

{

$project: {

\_id: 0,

user\_id: '$\_id',

totalProblemsSolved: 1 }

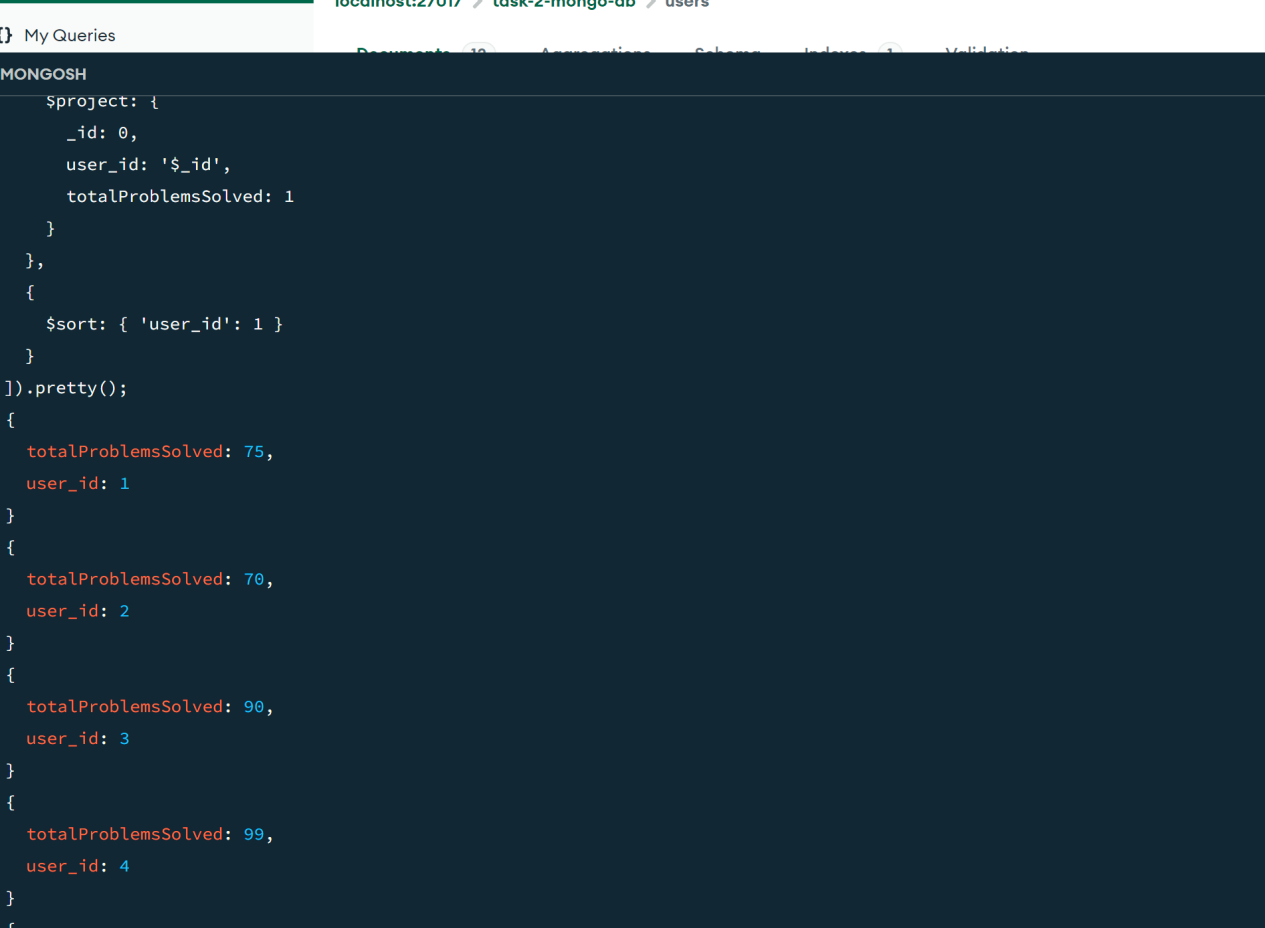
},

{

$sort: { 'user\_id': 1 } }

]).pretty();

**ScreenShot:**

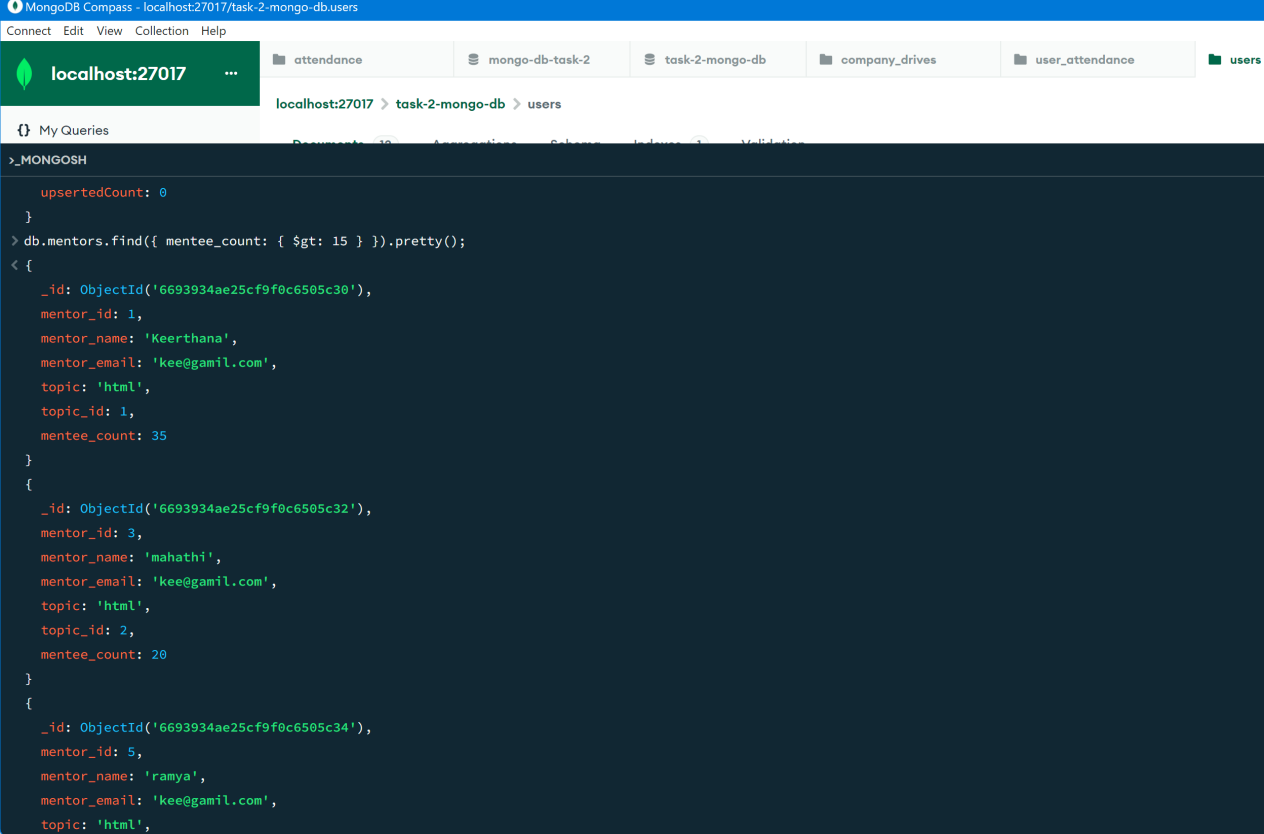


1. **Find all the mentors with who has the mentee's count more than 15**

**Query:**

db.mentors.find({ mentee\_count: { $gt: 15 } }).pretty();

ScreenShot:



1. **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([

{

$match: {

attendance: "absent",

date: {

$gte: new Date("2020-10-15T00:00:00.000Z"),

$lte: new Date("2020-10-31T23:59:59.999Z")

}

}

},

{

$lookup: {

from: "tasks",

localField: "user\_id",

foreignField: "user\_id",

as: "taskInfo"

}

},

{

$unwind: "$taskInfo" // Unwind to deconstruct the taskInfo array

},

{

$match: {

"taskInfo.submitted": false,

"taskInfo.task\_due\_date": {

$gte: new Date("2020-10-15T00:00:00.000Z"),

$lte: new Date("2020-10-31T23:59:59.999Z")

}

}

},

{

$lookup: {

from: "users",

localField: "user\_id",

foreignField: "User\_id",

as: "userInfo"

}

},

{

$unwind: "$userInfo" // Unwind to deconstruct the userInfo array

},

{

$project: {

\_id: 0,

user\_name: { $arrayElemAt: ["$userInfo.user\_name", 0] },

attendance: 1,

user\_id: 1,

"taskInfo.submitted": 1

}

},

{

$group: {

\_id: "$user\_id",

user\_name: { $first: "$user\_name" },

attendance: { $first: "$attendance" }, task\_submitted: { $first: "$taskInfo.submitted" }

}

},

{

$count: "number\_of\_users"

}

]).pretty();