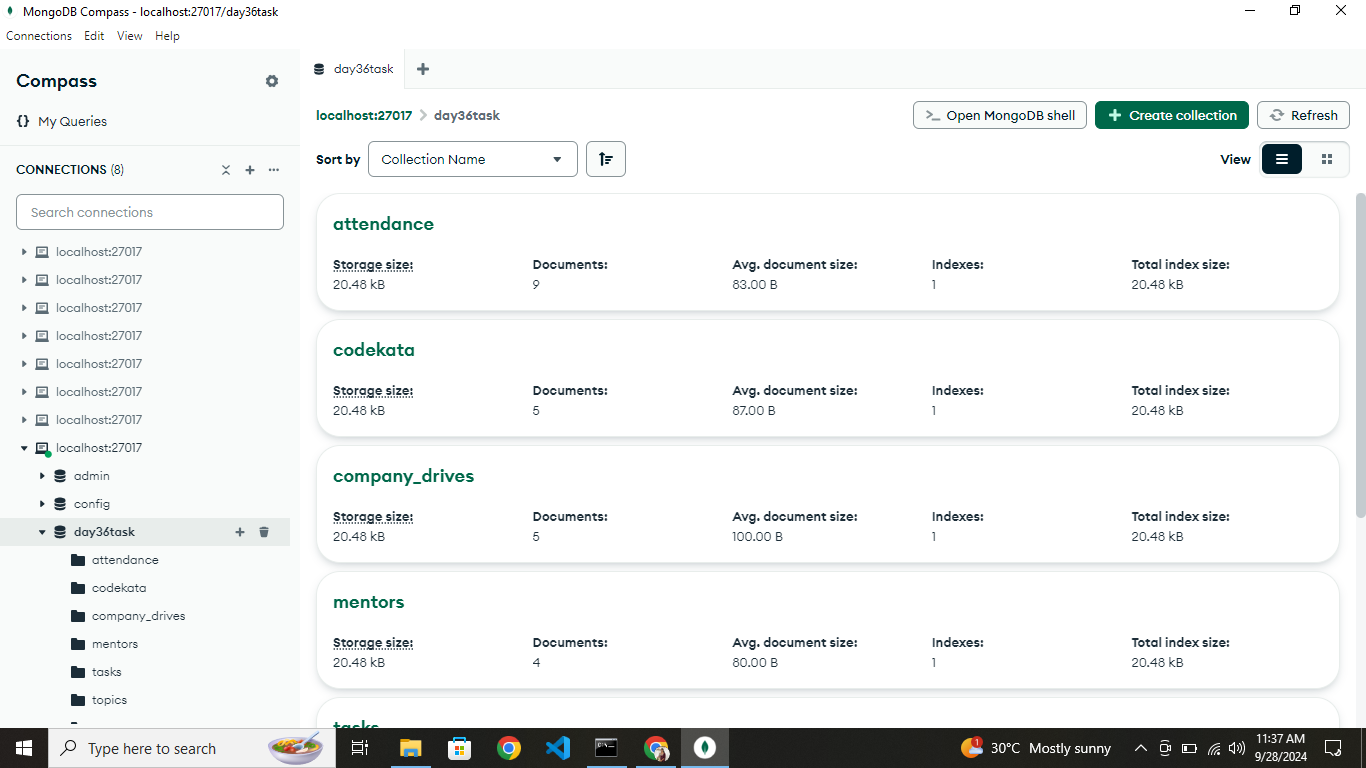
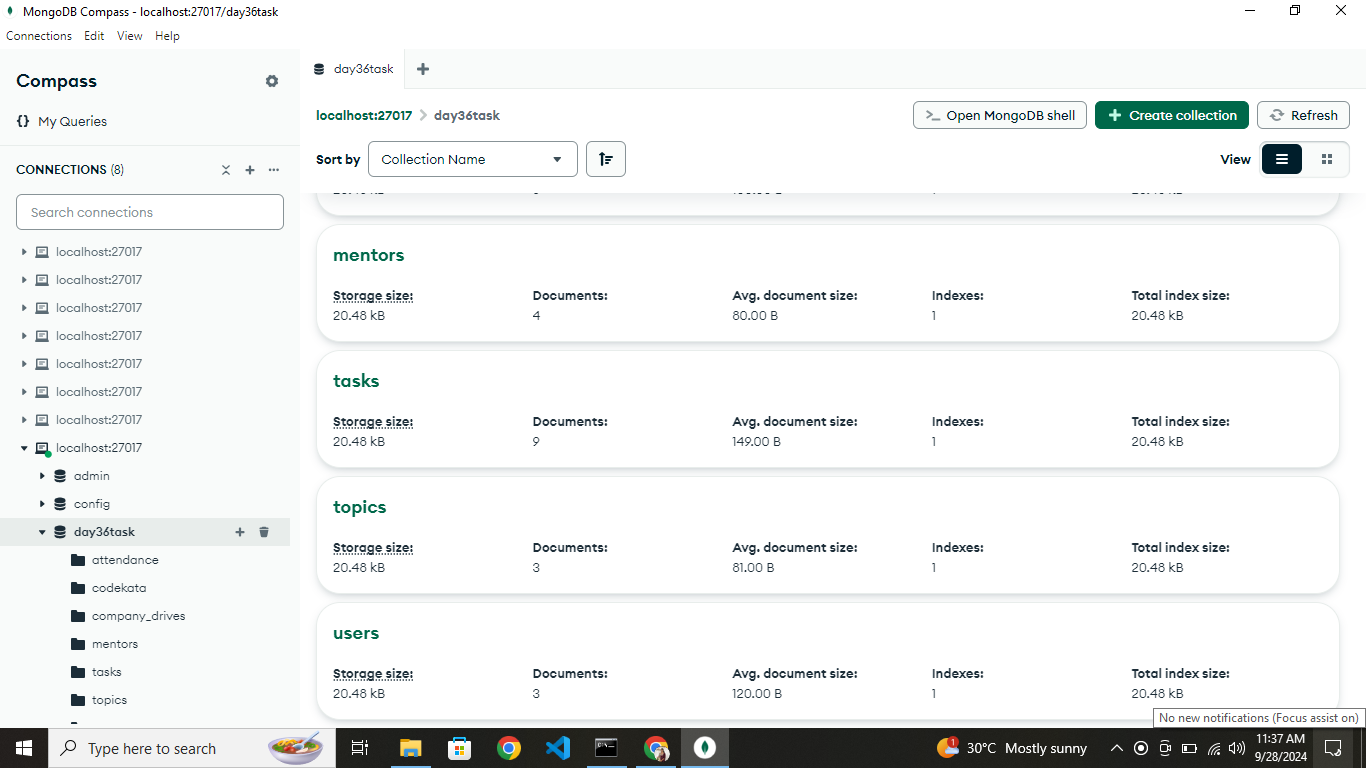
**Design database for Zen class programme**

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

**db.createView( "octoberSession", "topics", [**

**{**

**$lookup:**

**{**

**from: "tasks",**

**localField: "topic\_id",**

**foreignField: "topic\_id",**

**as: "tasksDocs"**

**}**

**},**

**{**

**$project:**

**{**

**\_id: 0,**

**topic\_id:1,**

**task\_id:"$tasksDocs.task\_id",**

**Date:1,**

**topic\_name:1,**

**task\_name:"$tasksDocs.task\_name"**

**}**

**},**

**{ $unwind: "$task\_id" },**

**{ $unwind: "$task\_name" }**

**] )**

**db.octoberSession.aggregate([{$match:{$expr:{$eq:[{$month:{$dateFromString:{dateString:"$Date", format:"%Y-%m-%d"}}},10]}}}])**

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

Ans: db.company\_drives.find({Date:{$gte:"2020-10-15",$lte:"2020-10-31"}})

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

Ans: db.createView( "placement1", "company\_drives", [

{

$lookup:

{

from: "users",

localField: "User\_id",

foreignField: "User\_id",

as: "userDocs"

}

},

{

$project:

{

\_id: 0,

User\_id: 1,

User\_name:"$userDocs.Name",

drive\_id: 1,

Date: 1,

drive\_name:1,

}

},

{ $unwind:"$User\_name" }

] )

db.placement1.find()

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

Ans: db.codekata.aggregate( [

{

$group:

{

\_id: "$User\_id",

totalProblemsSolved: { $sum: {$toInt:"$Problems\_solved" }}

}

}

] )

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

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

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

Ans: db.attendance.aggregate([

{

$match:{

Date:{

$gte:"2020-10-15", $lte:"2020-10-31"

},

Status:"Absent"

}

},

{

$lookup:{

from :"tasks",

localField:"User\_id",

foreignField:"User\_id",

as:"tasksDocs"

}

},

{

$match:{

"tasksDocs.submitted":"false"

}

},

{

$group:{

\_id:null,

count:{$sum:1}

}

}

])

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