**MONGODB DAY 2**

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

**Query:** db.Topics.aggregate([{

$match: {date\_taught: { $gte: ISODate("2023-10-01T00:00:00Z"),

$lt: ISODate("2023-11-01T00:00:00Z") } }

},

{$lookup: {from: "tasks", localField: "\_id", foreignField: "topic\_id", as: "tasks"} },

{$project: {topic\_name: 1, date\_taught: 1, tasks: {\_id: 1, task\_name: 1, due\_date: 1 } }

}])

1. Find all the company drives which appeared between 15 Oct 2020 and 31 Oct 2020:

**Query:** db.company\_drives.find({ date: {

$gte: ISODate("2020-10-15T00:00:00Z"),

$lt: ISODate("2020-11-01T00:00:00Z") }})

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

**Query:** db.Company\_Drives.aggregate([

{

$lookup: {

from: "users",

localField: "students\_attended",

foreignField: "\_id",

as: "students"

}}

])

1. Find the number of problems solved by the user in Codekata:

**Query:** db.Users.aggregate([{

$project: { name: 1, codekata\_problems\_solved: 1 }

}])

1. Find all the mentors who have mentee's count more than 15:

**Query:** db.Mentors.find({

"mentees": { $exists: true, $size: { $gt: 15 } }

})

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

**Query:** db.Users.aggregate([

{$match: {

"attendance.date": {

$gte: ISODate("2020-10-15T00:00:00Z"),

$lt: ISODate("2020-11-01T00:00:00Z") },

"attendance.status": "Absent" } },

{$lookup: {

from: "Tasks",

localField: "\_id",

foreignField: "submitted\_by",

as: "tasks\_submitted" } },

{$match: {

"tasks\_submitted.due\_date": {

$not: {

$gte: ISODate("2020-10-15T00:00:00Z"),

$lt: ISODate("2020-11-01T00:00:00Z")

} } } },

{$group: {

\_id: "$\_id",

name: { $first: "$name" },

absent\_days: { $sum: 1 }

}},

{$count: "total\_users"}

])