**MongoDBTask2**

**1. Find all the topics and tasks which are thaught 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.companydrives.aggregate([

{

$lookup: { from: "users", localField: "userid", foreignField: "userid", as: "userinfo"

}

● },

{

$project: {

\_id: 0,

company: 1, drive\_date: 1, students: "$userinfo"

}

} ])

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

}

} ])

**5.Find all the mentors with who has the mentee's count more than 15?** db.users.aggregate([

{

$match: { mentorid: { $exists: true } }

},

{

$group: {

\_id: "$mentorid", mentorname: { $first: "$mentorname" }, mentee\_count: { $sum: 1 }

}

},

{

$match: { mentee\_count: { $gt: 15 } }

},

{

$project: { \_id: 0, mentorid: "$\_id", mentorname: 1, mentee\_count: 1

}

}

])

**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") } }

]

}

},

{$count: "No\_of\_students\_absent"}

])