**Mongo Db tasks-3**

**Zenclass programme data**

**Class**

1. db.users.insert ([

{ "user\_id": 1, "name": "Ishu", "email": "ishu13@gmail.com", "Batch": "b52", "Mentor-id": 2 },

{ "user\_id": 2, "name": "Anjali", "email": "anju13@gmail.com", "Batch": "b52", "Mentor-id": 2 },

{ "user\_id": 3, "name": "Sahana", "email": "sahuu16@gmail.com", "Batch": "b52", "Mentor-id": 2 },

{ "user\_id": 4, "name": "Ishu", "email": "ishu13@gmail.com", "Batch": "b52", "Mentor-id": 2 },

{ "user\_id": 5, "name": "Sidharth", "email": "sidhhu13@gmail.com", "Batch": "b52", "Mentor-id": 3 }

])

1. **db.codekata** ([

{ "user-id": 1, "Problems-solved": 4 },

{ "user-id": 2, "Problems-solved": 14 },

{ "user-id": 3, "Problems-solved": 8 },

{ "user-id": 4, "Problems-solved": 0 },

{ "user-id": 5, "Problems-solved": 10 }

])}

1. **db.collection.attedance ([**

{ "user-id": 1, "Percentage": "50%", "topic": 2, "Present": true },

{ "user-id": 2, "Percentage": "60%", "topic": 2, "Present": false },

{ "user-id": 3, "Percentage": "80%", "topic": 2, "Present": true },

{ "user-id": 4, "Percentage": "45%", "topic": 2, "Present": false },

{ "user-id": 5, "Percentage": "50%", "topic": 2, "Present": false }

])

4.db.topics .insert([

{ "user-id": 1, "topic-id": 1, "topic": "HTML", "date": 25, "Month": "8/20" },

{ "user-id": 2, "topic-id": 2, "topic": "HTML, CSS", "date": 26, "Month": "10/20" },

{ "user-id": 3, "topic-id": 2, "topic": "DB", "date": 20, "Month": "10/20" },

{ "user-id": 4, "topic-id": 3, "topic": "JS Intro", "date": 28, "Month": "9/20" },

{ "user-id": 5, "topic-id": 3, "topic": "JS Basics", "date": 29, "Month": "9/20" }

])

1. **db.tasks**([

{ "user-id": 1, "task-id": 5, "topic-id": 1, "due-date": ISODate("2021-8-20"), "submission": "done" },

{ "user-id": 2, "task-id": 2, "topic": "HTML, CSS", "due-date": ISODate("2021-10-20"), "submission": "not-done" },

{ "user-id": 3, "task-id": 5, "topic-id": 1, "due-date": ISODate("2021-8-20"), "submission": "not-done" },

{ "user-id": 4, "task-id": 5, "topic-id": 1, "due-date": ISODate("2021-8-20"), "submission": "done" }

])

5.**db.mentor**([

{ "user-id": 1, "Mentor-id": 3, "Count": 16 },

{ "user-id": 2, "Mentor-id": 3, "Count": 20 },

{ "user-id": 3, "Mentor-id": 3, "Count": 18 },

{ "user-id": 4, "Mentor-id": 3, "Count": 15 }

])

6.company drives

**db.companydrives.insert**([

{ "\_id": ObjectId("5f8a8581c2319a4bdeabbc75"), "name": "Tech Company Placement Drive", "date": ISODate("2020-10-20") },

{ "\_id": ObjectId("5f8a8581c2319a4bdeabbc76"), "name": "ABC Recruitment Event", "date": ISODate("2020-10-25") },

{ "\_id": ObjectId("5f8a8581c2319a4bdeabbc77"), "name": "XYZ Hiring Drive", "date": ISODate("2020-10-30") }

])

**Tasks:**

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

**db.topics.find({ "date": {**

**$gte: ISODate("2020-10-01"), $lte: ISODate("2020-10-31”)}})**

**db.tasks.find({**

**"date": {**

**$gte:** **ISODate("2020-10-01"),**

**$lte: ISODate("2020-10-31")**

**}**

**})**

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

**db.company\_drives.find({**

**"date": {**

**$gte: ISODate("2020-10-15"),**

**$lte: ISODate("2020-10-31")**

**}**

**})**

**db.company\_drives.aggregate([**

**{**

**$lookup: {**

**from: "attendance",**

**localField: "\_id",**

**foreignField: "drive\_id",**

**as: "attendanceDetails"**

**}**

**},**

**{**

**$match: {**

**"attendanceDetails.appeared": true**

**}**

**}**

**])**

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

**db.codekata.aggregate([**

**{**

**$match: {**

**"user\_id": "user\_id”**

**}**

**},**

**{**

**$group: {**

**\_id: null,**

**totalProblemsSolved: { $sum: "$problems\_solved" }**

**}**

**}**

**])**

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

**db.mentors.find({**

**"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.users.aggregate([**

**{**

**$lookup: {**

**from: "attendance",**

**localField: "\_id",**

**foreignField: "user\_id",**

**as: "attendanceDetails"**

**}**

**},**

**{**

**$lookup: {**

**from: "tasks",**

**localField: "\_id",**

**foreignField: "user\_id",**

**as: "taskDetails"**

**}**

**},**

**{**

**$match: {**

**"attendanceDetails.absent": true,**

**"taskDetails.submitted": false,**

**"attendanceDetails.date": {**

**$gte: ISODate("2020-10-15T00:00:00.000Z"),**

**$lte: ISODate("2020-10-31T23:59:59.999Z")**

**}**

**}**

**}**

**])**