**1)Create a database named ToDoDB.**

use ToDo

**2)Design a collection named tasks.**

db.createCollection(“Tasks”)

**3)Insert at least 5 tasks with various titles, descriptions, statuses, and due dates.**

db.Tasks.insertMany([

{

"title": "Complete Project Proposal",

"description": "Draft and finalize the project proposal document for the upcoming meeting.",

"status": "Pending",

"due\_date": ISODate("2024-02-20")

},

{

"title": "Buy Groceries",

"description": "Purchase items for the week including fruits, vegetables, and dairy products.",

"status": "Pending",

"due\_date": ISODate("2024-02-18")

},

{

"title": "Prepare Presentation Slides",

"description": "Create slides for the client presentation scheduled for next week.",

"status": "Pending",

"due\_date": ISODate("2024-02-24")

},

{

"title": "Review Contracts",

"description": "Review and provide feedback on the new client contracts received from the legal team.",

"status": "Pending",

"due\_date": ISODate("2024-02-22")

},

{

"title": "Call Mom",

"description": "Catch up with mom and discuss plans for the weekend.",

"status": "Pending",

"due\_date": ISODate("2024-02-19")

}

])

**4)Retrieve and display all tasks in the database.**

db.Tasks.find()

**5)Display the details of a specific task by searching with its title or status.**

db.Tasks.findOne({ "status": "Pending" })

db.Tasks.findOne({ "title": "Complete Project Proposal" })

**6)List all tasks that are pending or completed.**

db.Tasks.find({

$or: [

{ "status": "Pending" },

{ "status": "Completed" }

]

})

**7)List of all tasks which are still pending after the due date.**

db.Tasks.find({

"status": "Pending",

"due\_date": { $lte: new Date() }

})

**8)Show all task in pending key and completed key {pending: [task....], completed: [task...]}**

db.Tasks.find({ "status": "Pending" }).toArray();

db.Tasks.find({ "status": "Completed" }).toArray();

**9)Update the status of a specific task (e.g., from "Pending" to "Completed").**

db.Tasks.updateOne(

{ "title": "Call Mom" },

{ $set: { "status": "Completed" } }

)

**10)Update the due date of a task.**

db.Tasks.updateOne(

{ "title": "Review Contracts" },

{ $set: { "due\_date": new Date("2023-02-29") } }

)

**11)Update all pending task which due date is less than 2 days from today.**

db.Tasks.updateMany(

{

"status": "Pending",

"due\_date": { $lte: new Date(new Date().getTime() + 2 \* 24 \* 60 \* 60 \* 1000) }

},

{ $set: { "status": "Completed" } }

)

**12)Remove a task by its title or status.**

db.Tasks.deleteOne({ "title": "Complete Project Proposal" })

db.Tasks.deleteOne({ "status": "pending" })

**13)Delete all completed tasks.**

db.Tasks.deleteMany({ "status": "Completed" })