Title: MongoDB Queries & Aggregation

Term: Database
Category: MongoDB

Basic Queries

Description	Command
Find all documents	db.collection.find()
Find with condition	db.collection.find({ age: 25 })
Find one document	db.collection.findOne()
Count documents	db.collection.countDocuments({ age: 25 })

Insert Operations

Description	Command
Insert one	db.collection.insertOne({ name: 'John', age: 25 })
Insert many	db.collection.insertMany([{ name: 'A' }, { name: 'B' }])

Update Operations

Description	Command
Update one	db.collection.updateOne({ name: 'John' }, { $set: { age: 26 } })
Update many	db.collection.updateMany({ age: { $gt: 20 } }, { $set: { status: 'active' } })

Delete Operations

Description	Command
Delete one	db.collection.deleteOne({ name: 'John' })
Delete many	db.collection.deleteMany({ status: 'inactive' })

Aggregation Framework

Description	Command
Match stage	{ $match: { status: 'active' } }
Group stage	{ $group: { _id: '$status', total: { $sum: 1 } } }
Sort stage	{ $sort: { age: -1 } }
Project stage	{ $project: { name: 1, age: 1 } }
Limit stage	{ $limit: 5 }