**🔍 Basic Queries**

**Find all videos**

db.videos.find().pretty()

**Find a specific video by title**

db.videos.findOne(

{ "Video Title": "TESLA Stock - TSLA Crashes Over 15%.." }

)

**Find a specific video and return only the transcript**

db.videos.findOne(

{ "Video Title": "TESLA Stock - TSLA Crashes Over 15%.." },

{ transcript: 1, \_id: 0 }

)

**Find any one document (without \_id)**

db.videos.findOne({}, { \_id: 0 })

**📅 Queries Based on Upload Date**

**Find videos from January 2024**

db.videos.find({

"Upload Date": { $regex: "^0[1-9]/01/2024|^1[0-9]/01/2024|^2[0-9]/01/2024|^3[01]/01/2024" }

}).pretty()

**Find videos from March 2025**

db.videos.find({

"Upload Date": { $regex: "^0[1-9]/03/2025|^1[0-9]/03/2025|^2[0-9]/03/2025|^3[01]/03/2025" }

}).pretty()

**📊 Statistics & Storage**

**Get collection statistics (in KB)**

db.videos.stats(1024)

* Shows **storage size, number of documents, avg document size, index size, etc.**

**Count total videos stored**

db.videos.countDocuments()

**Get size of the database**

db.stats(1024)

**📌 Sorting & Filtering**

**🔟 Sort videos by Upload Date (Newest First)**

db.videos.find().sort({ "Upload Date": -1 }).pretty()

**Sort videos by Title (Alphabetical Order)**

db.videos.find().sort({ "Video Title": 1 }).pretty()

**Find videos with "Tesla" in the title**

db.videos.find({ "Video Title": /Tesla/i }).pretty()

**🔎 Indexing for Faster Search**

**Create an index on Upload Date (for fast queries)**

db.videos.createIndex({ "Upload Date": 1 })

**Create an index on Title (for text search)**

db.videos.createIndex({ "Video Title": "text" })

**Perform a full-text search on titles**

db.videos.find({ $text: { $search: "Tesla" } }).pretty()

**📌 Bonus: Query by Date Range**

**Find videos between two dates (e.g., Feb 1, 2024 - Feb 28, 2024)**

db.videos.find({

"Upload Date": { $gte: "01/02/2024", $lte: "28/02/2024" }

}).pretty()

**📍 Use the Correct Database Before Querying**

**Switch to youtube\_data database**

use youtube\_data