**Step 1: Create and Insert Data into products**

db["companyDB"].find()

use companyDB

switched to db companyDB

db.products.insertMany([

{product\_id: 101, name: "Laptop", category: "Electronics", price: 55000, stock: 10 },

{product\_id: 102, name: "Mouse", category: "Electronics", price: 700, stock: 50 }, { product\_id: 103, name: "Office Chair", category: "Furniture", price: 4500, stock: 5 },{ product\_id: 104, name: "Notebook", category: "Stationer", price: 50, stock: 300 },{ product\_id: 105, name: "Water Bottle", category: "Kitchen", price: 250, stock: 100 }

])

1. Find all products that are **not in the 'Electronics' category**.

db.products.find({category: {$ne: "Electronics"}})

2. Get all products where **price is greater than 1,000**.

db.products.find({price: {$gt: 1000}})

3. Find products that have **stock less than 50**.

db.products.find({stock: {$lt: 50}})

4. List products whose **category is either 'Furniture' or 'Kitchen'**.

db.products.find({category :{$in:["Furniture","Kitchen"]}})

5. Get products with **stock between 10 and 100**.

db.products.find({stock: {$gt: 10,$lt: 100}})

6. Find all products where **price is not 700**.

db.products.find({price: {$ne: 700}})

7. Display all products whose **name starts with 'N'**.

db.products.find({name:{$regex:"^N"}})

8. Find all products whose **stock is not more than 5**.

db.products.find({stock: {$lte: 5}})

9. List products with **category not in ['Stationery', 'Kitchen']**.

db.products.find({category :{$nin:["Stationery","Kitchen"]}})

10. Find one product **not in the 'Furniture' category**.

db.products.findOne({category:{$ne:"Furniture"}})