# Assignment-7

### Problem Set:

## 1. Filter Products by Price Range and Stock

db.products.find({  
 price: { $gte: 20, $lte: 100 },  
 stock: { $gt: 0 }  
});

## 2. Qualified Students for Scholarship

db.students.find({  
 $or: [  
 { grade: { $gt: 85 } },  
 { attendance: { $gt: 90 } },  
 { age: { $lt: 18 } }  
 ]  
});

## 3. Filter Jobs by Salary and Location

db.jobs.find({  
 salary: { $gt: 50000 },  
 location: { $in: ["New York", "San Francisco"] }  
});

## 4. Available Electronics with Discount

db.inventory.find({  
 category: "electronics",  
 discount: { $gte: 10 },  
 stock: { $gt: 0 }  
});

## 5. Identify Pending Orders for VIP Customers

db.orders.find({  
 status: "pending",  
 $or: [  
 { customer\_type: "VIP" },  
 { amount: { $gt: 500 } }  
 ]  
});

## 6. Find Students Exceeding Both Age and Grade Limits

db.students.find({  
 $or: [  
 { age: { $gt: 18 }, grade: { $lt: 60 } },  
 { attendance: { $lt: 75 } }  
 ]  
});

## 7. Special Offers on Furniture

db.products.find({  
 category: "furniture",  
 $or: [  
 { price: { $lt: 200 } },  
 { stock: { $lt: 5 } }  
 ]  
});

## 8. Available Software and Services

db.items.find({  
 type: { $in: ["software", "service"] },  
 price: { $lt: 100 }  
});

## 9. Filter Employees by Experience or Department

db.employees.find({  
 experience: { $gt: 5 },  
 department: { $in: ["Engineering", "HR"] }  
});

## 10. Urgent Orders for High-Value Products

db.orders.find({  
 $or: [  
 { status: "urgent", total\_amount: { $gt: 1000 } },  
 { priority: "high" }  
 ]  
});