# Assignment-6

## ### Problem Set:

### \*\*Find Eligible Employees:\*\*

db.employees.find({  
 $or: [  
 { age: { $gt: 30 } },  
 { experience: { $gt: 5 } }  
 ]  
});

### \*\*Verify Product Stock and Price:\*\*

db.products.find({  
 stock: { $gt: 0 },  
 price: { $lt: 50 }  
});

### \*\*Check Student Enrollment:\*\*

db.students.find({  
 $or: [  
 { enrolled: false },  
 { grade: { $lt: "C" } }  
 ]  
});

### \*\*Filter Courses with Duration and Instructor:\*\*

db.courses.find({  
 $or: [  
 { duration: { $lt: 6 } },  
 { instructor: { $exists: false } }  
 ]  
});

### \*\*Locate Absent Orders:\*\*

db.orders.find({  
 $or: [  
 { status: { $ne: "shipped" } },  
 { shipped\_date: { $exists: false } }  
 ]  
});

### \*\*Find Non-Engineering Employees:\*\*

db.employees.find({  
 department: { $nin: ["Engineering", "IT"] }  
}, {  
 name: 1, department: 1  
});

### \*\*Check Student Exam Eligibility:\*\*

db.students.find({  
 exam\_score: { $lt: 50 },  
 participation: false  
});

### \*\*Mixed Department Filter:\*\*

db.employees.find({  
 department: "Sales",  
 $or: [  
 { experience: { $gt: 3 } },  
 { age: { $lt: 25 } }  
 ]  
});

### \*\*Inventory Check:\*\*

db.inventory.find({  
 $or: [  
 { price: { $exists: true, $lt: 100 } },  
 { stock: { $exists: false } }  
 ]  
});

### \*\*Uncommon Courses:\*\*

db.courses.find({  
 instructor: { $ne: "John Smith" },  
 duration: { $lte: 10 }  
});