

# BLOOD BANK MANAGEMENT SYSTEM



```
1 -- unsafe donors  
2  
3 SELECT DonorID, Result  
4 FROM Tests  
5 WHERE Result = 'Unsafe';  
6  
7
```

	DonorID	Result
▶	D003	Unsafe

```
1 -- Check blood availability by group:  
2  
3 SELECT BloodGroup, COUNT(BloodGroup) AS AvailableUnits  
4 FROM Blood_Inventory  
5 WHERE QualityStatus = 'Good'  
6 GROUP BY BloodGroup;  
7  
8  
9
```

	BloodGroup	AvailableUnits
▶	A+	1
	O-	1
	AB+	1

```
1 -- All contaminated blood units  
2  
3 SELECT UnitID, DonorID, BloodGroup, ExpiryDate  
4 FROM Blood_Inventory  
5 WHERE QualityStatus = 'Contaminated';  
6
```

	UnitID	DonorID	BloodGroup	ExpiryDate
▶	B003	D003	B+	22-01-2026
	B005	D005	O+	24-12-2025

```
1 -- Hospital Demand  
2  
3 SELECT HospitalID, COUNT(*) AS Requests  
4 FROM Recipients  
5 GROUP BY HospitalID  
6 ORDER BY Requests DESC;  
7  
8  
9
```

	HospitalID	Requests
▶	H001	2
	H002	1
	H003	1

```

1 --Find all recipients who received safe blood units
2
3 SELECT r.RecipientID, r.Name AS RecipientName, r.BloodGroup AS RecipientBloodGroup,
4       h.Name AS HospitalName, bi.UnitID, bi.BloodGroup AS UnitBloodGroup, bi.QualityStatus
5 FROM Recipients r
6 JOIN Hospitals h
7      ON r.HospitalID = h.HospitalID
8 JOIN Transactions t
9      ON r.RecipientID = t.RecipientID
10 JOIN BloodInventory bi
11     ON t.UnitID = bi.UnitID
12 WHERE t.Status = 'Issued'
13 AND bi.QualityStatus = 'Good';

```

	RecipientID	RecipientName	RecipientBloodGroup	HospitalName	UnitID	UnitBloodGroup	QualityStatus
▶	R001	Amit Kumar	A+	Apollo Hospital	B001	A+	Good
	R002	Meena Raval	O-	Civil Hospital	B002	O-	Good
	R004	Kavita Jain	AB+	Sterling Hospital	B004	AB+	Good