**Task 6 – SQL Subqueries: Questions & Answers**

**Q1. Display books with quantity greater than average available**

SELECT Title, QuantityAvailable

FROM Books

WHERE QuantityAvailable > (

SELECT AVG(QuantityAvailable)

FROM Books

);

**🔹 Q2. Display members who borrowed more books than the average**

SELECT M.FullName, COUNT(L.LoanID) AS TotalBorrowed

FROM Members AS M

LEFT JOIN Loans AS L ON M.MemberID = L.MemberID

GROUP BY M.MemberID, M.FullName

HAVING COUNT(L.LoanID) > (

SELECT AVG(BookCount)

FROM (

SELECT COUNT(\*) AS BookCount

FROM Loans

GROUP BY MemberID

) AS AvgTable

);

**🔹 Q3. Show books that were never borrowed**

SELECT Title

FROM Books

WHERE BookID NOT IN (

SELECT DISTINCT BookID FROM Loans

);

**🔹 Q4. Show members who never borrowed any book**

SELECT FullName

FROM Members

WHERE MemberID NOT IN (

SELECT DISTINCT MemberID FROM Loans

);

**🔹 Q5. Show the book(s) with the highest quantity available**

SELECT Title, QuantityAvailable

FROM Books

WHERE QuantityAvailable = (

SELECT MAX(QuantityAvailable) FROM Books

);

**🔹 Q6. Display members who borrowed books from the ‘Fantasy’ category**

SELECT DISTINCT M.FullName

FROM Members AS M

JOIN Loans AS L ON M.MemberID = L.MemberID

JOIN Books AS B ON L.BookID = B.BookID

JOIN Categories AS C ON B.CategoryID = C.CategoryID

WHERE C.CategoryName = 'Fantasy';

**🔹 Q7. Show members who borrowed the same book more than once**

SELECT M.FullName, B.Title, COUNT(\*) AS TimesBorrowed

FROM Members AS M

JOIN Loans AS L ON M.MemberID = L.MemberID

JOIN Books AS B ON L.BookID = B.BookID

GROUP BY M.MemberID, B.BookID

HAVING COUNT(\*) > 1;

**🔹 Q8. Show books that are currently loaned (not returned)**

SELECT B.Title, M.FullName, L.LoanDate

FROM Books AS B

JOIN Loans AS L ON B.BookID = L.BookID

JOIN Members AS M ON L.MemberID = M.MemberID

WHERE L.ReturnDate IS NULL;

**🔹 Q9. List authors whose books were never borrowed**

SELECT AuthorName

FROM Authors AS A

WHERE NOT EXISTS (

SELECT 1

FROM Books AS B

JOIN Loans AS L ON B.BookID = L.BookID

WHERE B.AuthorID = A.AuthorID

);

**🔹 Q10. Show the staff member who issued the most loans**

SELECT S.StaffName, COUNT(L.StaffID) AS TotalLoans

FROM Staff AS S

JOIN Loans AS L ON S.StaffID = L.StaffID

GROUP BY S.StaffName

ORDER BY TotalLoans DESC

LIMIT 1;