**1.** **Get number N as input and print the top N most frequent borrowers (Rid and name) in the library and the number of books each has borrowed**

SELECT reader.RID, reader.RNAME, COUNT(BOR\_NO)

FROM borrows INNER JOIN reader ON borrows.RID=reader.RID INNER JOIN book ON book.DOCID=borrows.DOCID

GROUP BY borrows.RID

ORDER BY COUNT(BOR\_NO) desc;

2. **Get number N and branch number I as input and print the top N most frequent borrowers (Rid and name) in branch I and the number of books each has borrowed.**

SELECT reader.RID, reader.RNAME, branch.BID, branch.LNAME, COUNT(BOR\_NO)

FROM borrows INNER JOIN reader ON borrows.RID=reader.RID INNER JOIN branch ON borrows.BID= branch.BID INNER JOIN book ON book.DOCID=borrows.DOCID

GROUP BY borrows.RID

ORDER BY COUNT(BOR\_NO) desc;

2. **MOST FREQUENT BOOKS BORROWED(TOP MOST FREQUENT)**

SELECT reader.RID, reader.RNAME, COUNT(BOR\_NO)

FROM borrows INNER JOIN reader ON borrows.RID=reader.RID INNER JOIN book ON book.DOCID=borrows.DOCID

GROUP BY borrows.RID

ORDER BY COUNT(BOR\_NO) desc;

limit 1

3. **Get number N and branch number I as input and print the N most borrowed books in branch I.**

SELECT reader.RID, reader.RNAME, branch.BID, branch.LNAME, COUNT(BOR\_NO)

FROM borrows INNER JOIN reader ON borrows.RID=reader.RID INNER JOIN branch ON borrows.BID= branch.BID INNER JOIN book ON book.DOCID=borrows.DOCID

WHERE branch.BID=8

GROUP BY branch.BID

ORDER BY COUNT(BOR\_NO) desc;

4**. Get number N as input and print the N most borrowed books in the library**

SELECT book.DOCID, COUNT(BOR\_NO), document.TITLE

FROM borrows INNER JOIN book ON borrows.DOCID= book.DOCID INNER JOIN document ON borrows.DOCID=document.DOCID

GROUP BY BOR\_NO

ORDER BY COUNT(BOR\_NO) DESC;