Retrieve the total number of books published by each publisher.

SQL query:

SELECT p.pname, COUNT(b.bookid) as total\_books\_published

FROM dmql.publisher p

JOIN dmql.book b ON p.pid = b.pid

GROUP BY p.pname

ORDER BY total\_books\_published DESC;

Query to find the number of books issued by each library branch:

vbnetSELECT lb.branchname, COUNT(\*) AS num\_books\_issued

FROM dmql.issue i

INNER JOIN dmql.librarybranch lb ON i.branchid = lb.branchid

GROUP BY lb.branchname;

Query to find the most popular book in each library branch based on the number of times it has been issued:

SELECT lb.branchname, b.title, COUNT(\*) AS num\_times\_issued

FROM dmql.issue i

INNER JOIN dmql.book b ON i.bookid = b.bookid

INNER JOIN dmql.librarybranch lb ON i.branchid = lb.branchid

GROUP BY lb.branchname, b.title

ORDER BY lb.branchname, num\_times\_issued DESC;

Query to find the number of books issued to each cardholder:

SELECT c.name, COUNT(\*) AS num\_books\_issued

FROM dmql.issue i

INNER JOIN dmql.card c ON i.card\_no = c.card\_no

GROUP BY c.name;

Retrieve the books published in the year 2022 with their title and publisher name, sorted by the number of books published by each publisher.

SELECT b.title, p.pname, COUNT(b.bookid) as total\_books\_published

FROM dmql.publisher p

JOIN dmql.book b ON p.pid = b.pid

WHERE b.pubyear = '2022'

GROUP BY b.title, p.pname

ORDER BY total\_books\_published DESC;

Retrieve the books that have been issued, along with their title, branch name, card holder name, and issue date, sorted by the issue date in descending order.

SELECT b.title, lb.branchname, c.name, i.date\_out

FROM dmql.book b

JOIN dmql.issue i ON b.bookid = i.bookid

JOIN dmql.librarybranch lb ON i.branchid = lb.branchid

JOIN dmql.card c ON i.card\_no = c.card\_no

ORDER BY i.date\_out DESC;

Retrieve the top 3 card holders who have issued the maximum number of books, along with their name and the total number of books issued.

SELECT c.name, COUNT(i.bookid) as total\_books\_issued

FROM dmql.card c

LEFT JOIN dmql.issue i ON c.card\_no = i.card\_no

GROUP BY c.name

ORDER BY total\_books\_issued DESC

LIMIT 3;

This query retrieves the name of all library cardholders, the number of books they have issued, and their account status (active or inactive) based on the number of books they have issued. The results are grouped by cardholder and ordered in descending order of the number of books issued.

SELECT card.name,

COUNT(issue.card\_no) AS num\_books\_issued,

CASE WHEN COUNT(issue.card\_no) < 5 THEN 'Active' ELSE 'Inactive' END AS account\_status

FROM dmql.card

LEFT JOIN dmql.issue ON card.card\_no = issue.card\_no

GROUP BY card.card\_no

ORDER BY num\_books\_issued DESC;