-- Limit the number of catalogues user can borrow to 10 for books, magazines, and prints; and 5 for videos and musics.

CREATE TRIGGER before\_insert\_reservation\_checkNumberOfBorrowedCatalogues

BEFORE INSERT ON Reservation

FOR EACH ROW

BEGIN

DECLARE totalCountBooks INT;

DECLARE totalCountVideosMusics INT;

SELECT COUNT(c.mediaTypeID) INTO totalCountBooks

FROM Reservation r

INNER JOIN Catalogue c

ON r.catalogueNumber = c.catalogueNumber

INNER JOIN MediaType m

ON c.mediaTypeID = m.mediaTypeID

WHERE userID = NEW.userID AND c.mediaTypeID IN (1,2,5)

GROUP BY userID;

SELECT COUNT(c.mediaTypeID) INTO totalCountVideosMusics

FROM Reservation r

INNER JOIN Catalogue c

ON r.catalogueNumber = c.catalogueNumber

INNER JOIN MediaType m

ON c.mediaTypeID = m.mediaTypeID

WHERE userID = NEW.userID AND c.mediaTypeID IN (3,4)

GROUP BY userID;

IF (totalCountVideosMusics >= 5 OR totalCountBooks >= 10 ) THEN

-- maximum number of documents

SIGNAL SQLSTATE '50002' SET MESSAGE\_TEXT = 'MAXIMUM NUMBER OF ITEMS REACHED'; -- EVERYTHING STOPS

END IF;

END //

-- View to show complete information of a catalogue

CREATE VIEW searchCatalogue AS

SELECT c.catalogueNumber, c.title, CONCAT(a.firstName, ' ', a.lastName) AS Author,

m.mediaTypeName, c.edition, p.publisherName, c.ISBN, c.format, c.copiesAvailable,

c.shelvingInfo, c.genre, c.description, c.ageGroup

FROM Catalogue c

INNER JOIN CatalogueAuthor ca

ON c.catalogueNumber = ca.catalogueNumber

INNER JOIN Author a

ON ca.authorID = a.authorID

INNER JOIN Publisher p

ON c.publisherID = p.publisherID

INNER JOIN MediaType m

on c.mediaTypeID = m.mediaTypeID;

-- Find a specific catalogue's ID by it's title

CREATE FUNCTION fnFindCatalogueNumberByTitle(catalogueName VARCHAR(100))

RETURNS int DETERMINISTIC

BEGIN

DECLARE catalogueID int;

SELECT catalogueNumber INTO catalogueID

FROM Catalogue

WHERE title like CONCAT('%',catalogueName,'%')

LIMIT 1;

RETURN catalogueID;

END//

-- Find a specific catalogue's complete information by it's title

CREATE PROCEDURE spFindCatalogueInfo(searchTitle VARCHAR(100))

BEGIN

SELECT c.title, CONCAT(a.firstName, ' ', a.lastName) AS Author,

c.edition, p.publisherName, c.ISBN, c.catalogueFormat, c.copiesAvailable,

c.shelvingInfo, c.genre, c.catalogueDescription, c.ageGroup

FROM searchCatalogue

WHERE c.catalogueNumber = fnFindCatalogueNumberByTitle(searchTitle);

END //