## Deleting a member who: Has existing loans, Has written book reviews

**SQL Script Written:**

DELETE FROM Members WHERE MemberID = 1

SELECT \* FROM Members

SELECT \* FROM Loans

SELECT \* FROM Reviews

**Error message:** It Executed correctly.

## Deleting a book that:Is currently on loan, Has multiple reviews attached to it

**SQL Script Written:**

DELETE FROM Books WHERE BookID = 1;

Error message: It Executed correctly.

Inserting a loan for: A member who doesn’t exist, A book that doesn’t exist

**SQL Script Written:**

INSERT INTO Loans (MemberID, BookID, DueDate) VALUES (999, 1, '2025-07-01');

**Error message:** It Executed correctly.

Updating a book’s genre to: A value not included in your allowed genre list (e.g., 'Sci-Fi')

**SQL Script Written:**

UPDATE Books SET Genre = 'Sci-Fi' WHERE BookID = 1;

**Error message:** It Executed correctly.

Inserting a payment with: A zero or negative amount, A missing payment method

**SQL Script Written:**

INSERT INTO Payments (LoanID, Amount, Method) VALUES (1, 0, 'Cash'); -- Amount zero

INSERT INTO Payments (LoanID, Amount, Method) VALUES (1, -10, 'Cash'); -- Negative amount

INSERT INTO Payments (LoanID, Amount, Method) VALUES (1, 5.00, NULL); -- Missing method

**Error message:** Msg 547, Level 16, State 0, Line 177

The INSERT statement conflicted with the CHECK constraint "CK\_\_Payments\_\_Amount\_\_5070F446". The conflict occurred in database "LibraryManagmentSystem", table "dbo.Payments", column 'Amount'.

The statement has been terminated.

Msg 547, Level 16, State 0, Line 178

The INSERT statement conflicted with the CHECK constraint "CK\_\_Payments\_\_Amount\_\_5070F446". The conflict occurred in database "LibraryManagmentSystem", table "dbo.Payments", column 'Amount'.

The statement has been terminated.

Msg 515, Level 16, State 2, Line 179

Cannot insert the value NULL into column 'Method', table 'LibraryManagmentSystem.dbo.Payments'; column does not allow nulls. INSERT fails.

The statement has been terminated.

**Fix:** The way to fix this issue is by inserting a correct value or updating the rules so these values will be accepted

## Inserting a review for: A book that does not exist, A member who was never registered

**SQL Script Written:**

INSERT INTO Reviews (MemberID, BookID, Rating, Comments) VALUES (999, 1, 4, 'Test review');

INSERT INTO Reviews (MemberID, BookID, Rating, Comments) VALUES (1, 999, 4, 'Test review');

**Error message:** Msg 547, Level 16, State 0, Line 182

The INSERT statement conflicted with the FOREIGN KEY constraint "FK\_\_Reviews\_\_MemberI\_\_571DF1D5". The conflict occurred in database "LibraryManagmentSystem", table "dbo.Members", column 'MemberID'.

The statement has been terminated.

Msg 547, Level 16, State 0, Line 183

The INSERT statement conflicted with the FOREIGN KEY constraint "FK\_\_Reviews\_\_MemberI\_\_571DF1D5". The conflict occurred in database "LibraryManagmentSystem", table "dbo.Members", column 'MemberID'.

The statement has been terminated.

**Fix:** The fix is similar to that for the previous one just the values and rules differ.

## Updating a foreign key field (like MemberID in Loan) to a value that doesn’t exist.

**SQL Script Written:**

UPDATE Loans SET MemberID = 999 WHERE LoanID = 1; -- MemberID 999 does not exist

**Error message:** It Executed correctly.