***Assignment 2:*** *Prepare a series of SQL statements to INSERT new records into the library tables, UPDATE existing records with new information, and DELETE records based on specific criteria. Include BULK INSERT operations to load data from an external source.*

***Here are the SQL statements to INSERT, UPDATE, and DELETE records in the library tables, along with BULK INSERT operations:***

***INSERT Statements:***

*-- Insert new library*

*INSERT INTO Libraries (LibraryID, Name, Address, City, State, Zip)*

*VALUES (10, 'New Library', '123 Main St', 'Anytown', 'CA', '12345');*

*-- Insert new book*

*INSERT INTO Books (BookID, Title, Author, Publisher, PublicationDate, ISBN, LibraryID)*

*VALUES (1000, 'New Book', 'John Doe', 'ABC Publisher', '2022-01-01', '1234567890', 10);*

*-- Insert new borrower*

*INSERT INTO Borrowers (BorrowerID, Name, Email, Phone, Address)*

*VALUES (1000, 'Jane Smith', 'jane.smith@example.com', '555-555-5555', '456 Elm St');*

*-- Insert new loan*

*INSERT INTO Loans (LoanID, BookID, BorrowerID, LoanDate, DueDate)*

*VALUES (1000, 1000, 1000, '2022-01-01', '2022-01-15');*

***UPDATE Statements:***

*-- Update book title*

*UPDATE Books SET Title = 'Updated Book Title' WHERE BookID = 1000;*

*-- Update borrower email*

*UPDATE Borrowers SET Email = 'jane.smith2@example.com' WHERE BorrowerID = 1000;*

*-- Update loan due date*

*UPDATE Loans SET DueDate = '2022-01-22' WHERE LoanID = 1000;*

***DELETE Statements:***

*-- Delete book*

*DELETE FROM Books WHERE BookID = 1000;*

*-- Delete borrower*

*DELETE FROM Borrowers WHERE BorrowerID = 1000;*

*-- Delete loan*

*DELETE FROM Loans WHERE LoanID = 1000;*

***BULK INSERT Operations:***

***Using SQL Server:***

*BULK INSERT Books*

*FROM 'C:\Books.csv'*

*WITH*

*(*

*FIELDTERMINATOR = ',',*

*ROWTERMINATOR = '\n'*

*);*

*Using MySQL:*

*SQL*

*LOAD DATA INFILE 'C:/Books.csv'*

*INTO TABLE Books*

*FIELDS TERMINATED BY ','*

*LINES TERMINATED BY '\n'*

*IGNORE 1 ROWS;*

*External Data Source (CSV file):*

***Books.csv:***

*BookID,Title,Author,Publisher,PublicationDate,ISBN,LibraryID*

*1001,Book1,Author1,Publisher1,2022-01-01,1234567891,10*

*1002,Book2,Author2,Publisher2,2022-01-02,1234567892,10*

*1003,Book3,Author3,Publisher3,2022-01-03,1234567893,10*