

PROBLEM STATEMENTS

Task 1- Create a New Book Record

"978-1-60129-456-2', 'To Kill a Mockingbird', 'Classic', 6.00, 'yes', 'Harper Lee', 'J.B. Lippincott & Co.')"

Task 2- Update an Existing Member's Address

Task 3- Delete a Record from the Issued Status Table

Objective: Delete the record with issued_id = 'IS104' from the issued_status table.

Task 4- Retrieve All Books Issued by a Specific Employee

Objective: Select all books issued by the employee with emp_id = 'E101'.

Task 5- List Members Who Have Issued More Than One Book

Objective: Use GROUP BY to find members who have issued more than one book.

Task 6- Create Summary Tables**: Used CTAS to generate new tables based on query results - each book and total book_issued_cnt.

Task 7- Retrieve All Books in a Specific Category.

Task 8- Find Total Rental Income by Category.

Task 9- List Members Who Registered in the Last 180 Days.

Task 10- List Employees with Their Branch Manager's Name and their branch details.

Task 11- Create a Table of Books with Rental Price Above a Certain Threshold.

Task 12- Retrieve the List of Books Not Yet Returned.

Task 13- Identify Members with Overdue Books

Write a query to identify members who have overdue books (assume a 30-day return period). Display the member's name, book title, issue date, and days overdue.

Task 14- Update Book Status on Return

Write a query to update the status of books in the books table to "available" when they are returned (based on entries in the return_status table).

Task 15- Branch Performance Report

Create a query that generates a performance report for each branch, showing the number of books issued, the number of books returned, and the total revenue generated from book rentals.

Task 16- CTAS: Create a Table of Active Members

Use the CREATE TABLE AS (CTAS) statement to create a new table active_members containing members who have issued at least one book in the last 6 months.

Task 17- Find Employees with the Most Book Issues Processed

Write a query to find the top 3 employees who have processed the most book issues. Display the employee name, number of books processed, and their branch.

Task 18- Stored Procedure

Objective: Create a stored procedure to manage the status of books in a library system.

Description: Write a stored procedure that updates the status of a book based on its issuance or return. Specifically:

If a book is issued, the status should change to 'no'.

If a book is returned, the status should change to 'yes'.