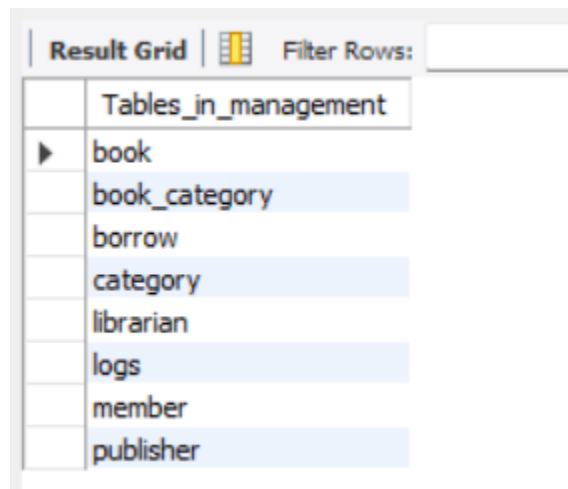
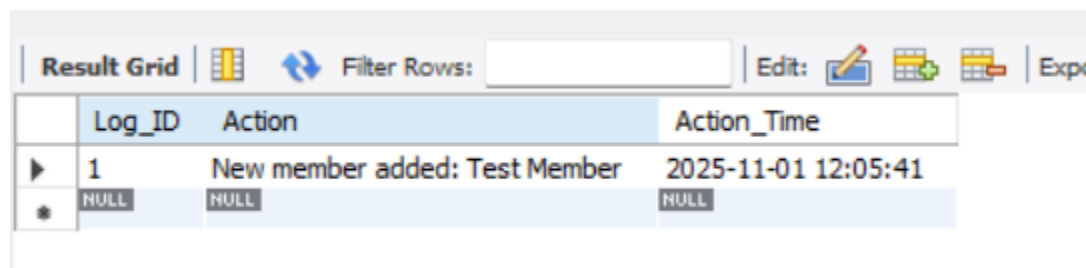


SCREENSHOTS OF SQL TABLES :



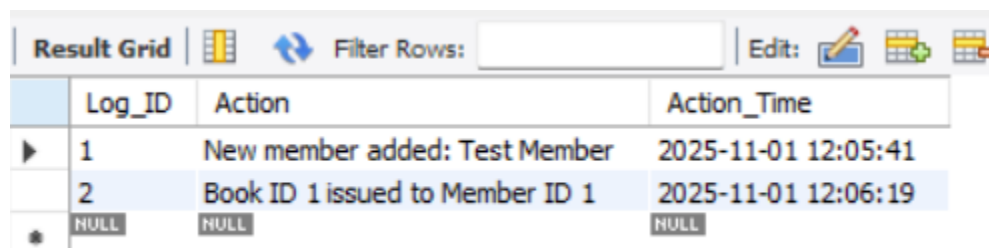
The screenshot shows a database interface with a 'Result Grid' and a 'Filter Rows' input. A list of tables is displayed, including 'Tables_in_management', 'book', 'book_category', 'borrow', 'category', 'librarian', 'logs', 'member', and 'publisher'.

Tables_in_management
book
book_category
borrow
category
librarian
logs
member
publisher



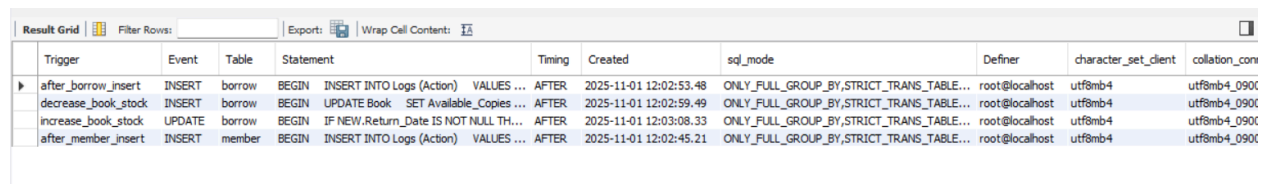
The screenshot shows a database interface with a 'Result Grid' and a 'Filter Rows' input. The table displays log entries with columns 'Log_ID', 'Action', and 'Action_Time'. The first entry shows a new member added.

Log_ID	Action	Action_Time
1	New member added: Test Member	2025-11-01 12:05:41
NULL	NULL	NULL



The screenshot shows a database interface with a 'Result Grid' and a 'Filter Rows' input. The table displays log entries with columns 'Log_ID', 'Action', and 'Action_Time'. The first two entries show a new member added and a book issued to the member.

Log_ID	Action	Action_Time
1	New member added: Test Member	2025-11-01 12:05:41
2	Book ID 1 issued to Member ID 1	2025-11-01 12:06:19
NULL	NULL	NULL



The screenshot shows a database interface with a 'Result Grid' and a 'Filter Rows' input. The table displays a list of triggers with columns: Trigger, Event, Table, Statement, Timing, Created, sql_mode, Definer, character_set_client, and collation_name.

Trigger	Event	Table	Statement	Timing	Created	sql_mode	Definer	character_set_client	collation_name
after_borrow_insert	INSERT	borrow	BEGIN INSERT INTO Logs (Action) VALUES ...	AFTER	2025-11-01 12:02:53.48	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900
decrease_book_stock	INSERT	borrow	BEGIN UPDATE Book SET Available_Copies ...	AFTER	2025-11-01 12:02:59.49	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900
increase_book_stock	UPDATE	borrow	BEGIN IF NEW.Return_Date IS NOT NULL TH...	AFTER	2025-11-01 12:03:08.33	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900
after_member_insert	INSERT	member	BEGIN INSERT INTO Logs (Action) VALUES ...	AFTER	2025-11-01 12:02:45.21	ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLE...	root@localhost	utf8mb4	utf8mb4_0900

EXPLANATION :

The Triggers and Constraints task focuses on maintaining data integrity and automating actions in the Library Management System.

Constraints like CHECK and UNIQUE ensure data validity — preventing negative values and duplicate emails.

Triggers automate operations such as updating book stock after borrowing or returning, and inserting records into a Logs table for activity tracking.

This automation reduces manual effort, improves accuracy, and ensures reliable database operations.