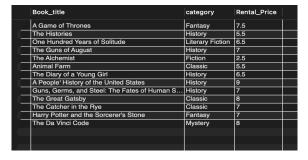# PROJECT : LIBRARY MANAGEMENT SYSTEM

HERE ARE ALL THE SQL QUERIES WITH SOLUTIONS

1.Retrieve the book title, category, and rental price of all available books.
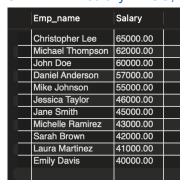
SELECT Book_title, category, Rental_Price
FROM Books
WHERE Status = "YES";

Book_title	category	Rental_Price
A Game of Thrones	Fantasy	7.5
The Histories	History	5.5
One Hundred Years of Solitude	Literary Fiction	6.5
The Guns of August	History	7
The Alchemist	Fiction	2.5
Animal Farm	Classic	5.5
The Diary of a Young Girl	History	6.5
A People' History of the United States	History	9
Guns, Germs, and Steel: The Fates of Human S...	History	7
The Great Gatsby	Classic	8
The Catcher in the Rye	Classic	7
Harry Potter and the Sorcerer's Stone	Fantasy	7
The Da Vinci Code	Mystery	8

2.List the employee names and their respective salaries in descending order of salary.

SELECT Emp_name, Salary
FROM Employee
ORDER BY salary DESC;

Emp_name	Salary
Christopher Lee	65000.00
Michael Thompson	62000.00
John Doe	60000.00
Daniel Anderson	57000.00
Mike Johnson	55000.00
Jessica Taylor	46000.00
Jane Smith	45000.00
Michelle Ramirez	43000.00
Sarah Brown	42000.00
Laura Martinez	41000.00
Emily Davis	40000.00

3.Retrieve the book titles and the corresponding customers who have issued those books.

SELECT ISS.Issued_book_name,
        C.Customer_name
FROM Issue_Status as ISS
INNER JOIN Customer AS C
ON ISS.Issued_cust = C.Customer_Id;

Issued_book_name	Customer_name
The Catcher in the Rye	Alice Johnson
The Da Vinci Code	Bob Smith
1491: New Revelations of the Americas Before...	Carol Davis
Sapiens: A Brief History of Humankind	Dave Wilson
The Diary of a Young Girl	Eve Brown

4.Display the total count of books in each category.

SELECT category, COUNT(Book_title)
FROM Books
GROUP BY category;

category	COUNT(Book_titl...
Fantasy	2
History	7
Literary Fiction	1
Classic	4
Fiction	1
Mystery	1

5.Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.

SELECT Emp_name, Position
FROM Employee
WHERE salary > 50000;

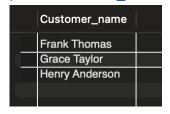| Emp_name	Position
John Doe	Manager
Mike Johnson	Librarian
Michael Thompson	Manager
Daniel Anderson	Librarian
Christopher Lee	Manager

6.List the customer names who registered before 2022-01-01 and have not issued any books yet.

SELECT Customer_name
FROM CUSTOMER
WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN
(SELECT Issued_cust FROM Issue_Status);

Customer_name
Frank Thomas
Grace Taylor
Henry Anderson

7.Display the branch numbers and the total count of employees in each branch.

SELECT Branch_no, count(Emp_id)
FROM Employee
GROUP BY branch_no;

Branch_no	count(Emp_id)
B001	4
B002	4
B003	2
B004	1

8.Display the names of customers who have issued books in the month of June 2023.

SELECT C.Customer_name
FROM customer C
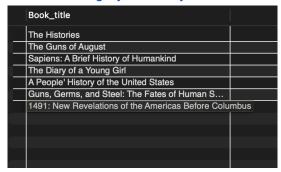INNER JOIN Issue_Status ISS
ON C.Customer_Id = ISS.Issued_cust
WHERE ISS.Issue_date >= '2023-06-01' AND ISS.Issue_date <= '2023-06-30';

9.Retrieve book titles from the book table containing the category "history".

SELECT Book_title
FROM Books
WHERE Category = 'history';

Book_title
The Histories
The Guns of August
Sapiens: A Brief History of Humankind
The Diary of a Young Girl
A People' History of the United States
Guns, Germs, and Steel: The Fates of Human S...
1491: New Revelations of the Americas Before Columbus

10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees.

SELECT branch_no, COUNT(Emp_id)
FROM Employee
GROUP BY branch_no
HAVING COUNT(Emp_id) > 5;