LIBRARY MANAGEMENT SYSTEM_MYSQL_PROJECT

-- 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
Crime and Punishment	Classic	6.50
The Catcher in the Rye	Fiction	5.00
Moby Dick	Adventure	7.00
Pride and Prejudice	Romance	4.50
The Silent Patient	Thriller	6.00
1984	Dystopian	6.00
The Great Gatsby	Fiction	5.00

-- 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
Ivy Wilson	56000.00
Grace Adams	54000.00
Charlie Brown	52000.00
Eve White	51000.00
Alice Johnson	50000.00
Jack Blue	47000.00
Hank Gray	45000.00
Frank Black	43000.00
Diana Green	42000.00
Bob Smith	40000.00

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

```
SELECT
   B.Book_title,
   C.Customer_name
FROM
   IssueStatus I
JOIN
   Books B ON I.Isbn_book = B.ISBN
JOIN
   Customer C ON I.Issued_cust = C.Customer_Id;
```

Book_title	Customer_name
The Great Gatsby	John Doe
1984	Jane Smith
To Kill a Mockingbird	Michael Johnson
Pride and Prejudice	Emily Davis
The Catcher in the Rye	David Wilson
The Hobbit	Sarah Miller
Moby Dick	Daniel Taylor
War and Peace	Jessica White
The Silent Patient	William Brown
Crime and Punishment	Sophia Green

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

```
SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category;
```

Category	Total_Books
Classic	1
Fiction	3
Adventure	1
Romance	1
Historical Fiction	1
Fantasy	1
Thriller	1
Dystopian	1

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

```
-- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
SELECT Emp_name, Position,Salary FROM Employee WHERE Salary > 50000;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Emp_name	Position	Salary
Charlie Brown	Librarian	52000.00
Eve White	Librarian	51000.00
Grace Adams	Librarian	54000.00
Ivy Wilson	Librarian	56000.00

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

```sql
SELECT
    C.Customer_name, C.Reg_date
FROM
    Customer C
LEFT JOIN
    IssueStatus I ON C.Customer_Id = I.Issued_cust
WHERE
    C.Reg_date < '2022-01-01'
    AND I.Issue_Id IS NULL;
```

ult Grid | Filter Rows: | Export: | Wrap Cell Content:

Customer_name	Reg_date
Alice Walker	2021-11-15
John Smith	2020-06-10
Diana Prince	2021-09-05

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

```sql
-- 7. Display the branch numbers and the total count of employees in each branch.
SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Branch_no	Total_Employees
1	2
2	2
3	2
4	2
5	2

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

```sql
select * from books;
SELECT
    C.Customer_name,I.Issue_date
FROM
    Customer C
JOIN
    IssueStatus I ON C.Customer_Id = I.Issued_cust
WHERE
    I.Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Customer_name	Issue_date
Sophia Johnson	2023-06-05
Michael Clark	2023-06-15
Emma Davis	2023-06-20

9. Retrieve book_title from book table containing history.

```sql

SELECT
    Book_title
FROM
    Books
WHERE
    Book_title LIKE '%history%';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Book_title
A Brief History of Time
The History of Modern Europe

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

```
SELECT
    Branch_no,
    COUNT(Emp_Id) AS Employee_Count
FROM
    Employee
GROUP BY
    Branch_no
HAVING
    COUNT(Emp_Id) > 5;
```

Result Grid | Filter Rows: | Export: | Wrap

Branch_no	Employee_Count
2	8
3	8

11. Retrieve the names of employees who manage branches and their respective branch addresses.

```sql
SELECT
    E.Emp_name AS Employee_Name,
    E.Position AS Employee_Position,
    B.Branch_address AS Branch_Address
FROM
    Employee E
JOIN
    Branch B ON E.Branch_no = B.Branch_no
WHERE
    E.Position = 'Manager';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Employee_Name	Employee_Position	Branch_Address
Monica Lewis	Manager	789 Oak St, Suburbia
George Harris	Manager	456 Elm St, Uptown

12. Display the names of customers who have issued books with a rental price higher than Rs. 25.

```sql
SELECT
    C.Customer_name, B.Rental_Price AS Rental_Price
FROM
    IssueStatus I
JOIN
    Books  B ON I.Isbn_book = B.ISBN
JOIN
    Customer C ON I.Issued_cust = C.Customer_Id
WHERE
    B.Rental_Price > 25;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Customer_name	Rental_Price
Emma Davis	180.00
Sophia Johnson	150.00
Michael Clark	200.00