

Library Management System

MySQL
Project

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1. Retrieve the book title, category, and rental price of all available books.

```
148  
149      #QUESTIONS:  
150      #1)Retrieve the book title, category, and rental price of all available books.  
151  
152 •      SELECT Book_title,Category,Rental_price FROM Books WHERE Status ='Yes';  
153
```

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

	Book_title	Category	Rental_price
▶	Introduction to Python	Programming	20.00
	History of Art	History	30.00
	Data Science Essentials	Data Science	40.00
	The Renaissance	History	28.00
	JavaScript for Beginners	Programming	22.00
	Algorithms Unlocked	Computer Science	45.00



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

```
154      #2)List the employee names and their respective salaries in descending order of salary.  
155  
156 •     SELECT Emp_name,Salary FROM Employee ORDER BY Salary DESC;
```

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

	Emp_name	Salary
▶	Charlie	60000
	Isabella	58000
	Alice	55000
	Eve	52000
	Grace	45000
	Bob	40000
	Frank	32000
	Henry	31000
	Diana	30000
	James	29000



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

```
158     #3)Retrieve the book titles and the corresponding customers who have issued those books.  
159  
160 •     SELECT Issued_book_name,Customer_name FROM IssueStatus LEFT JOIN Customer ON Issued_cust = Customer_Id;
```

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

Issued_book_name	Customer_name
Introduction to Python	Henry
Advanced Python	Isabella
History of Art	James
World War II	Emily
Data Science Essentials	Oliver
Machine Learning Basics	Sophia
The Renaissance	Liam
JavaScript for Beginners	Mia
Algorithms Unlocked	Noah
Deep Learning with Python	Ava



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

```
161  
162      #4)Display the total count of books in each category  
163  
164 •   SELECT Category,COUNT(*) AS 'Total books' FROM Books GROUP BY Category;
```

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

Category	Total books
Programming	3
History	3
Data Science	3
Computer Science	1

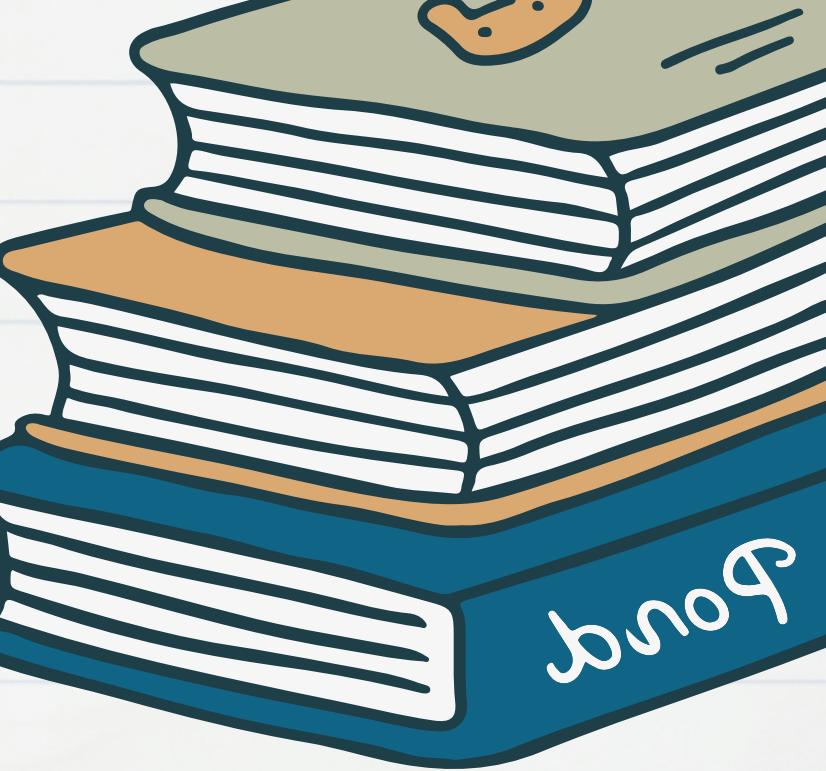


5. Retrieve the employee names and their positions for employees whose salaries are above Rs. 50,000.

```
166      #5)Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.  
167  
168 •     SELECT Emp_name,Position FROM Employee WHERE Salary >50000;
```

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

	Emp_name	Position
	Alice	Manager
	Charlie	Manager
	Eve	Manager
	Isabella	Manager



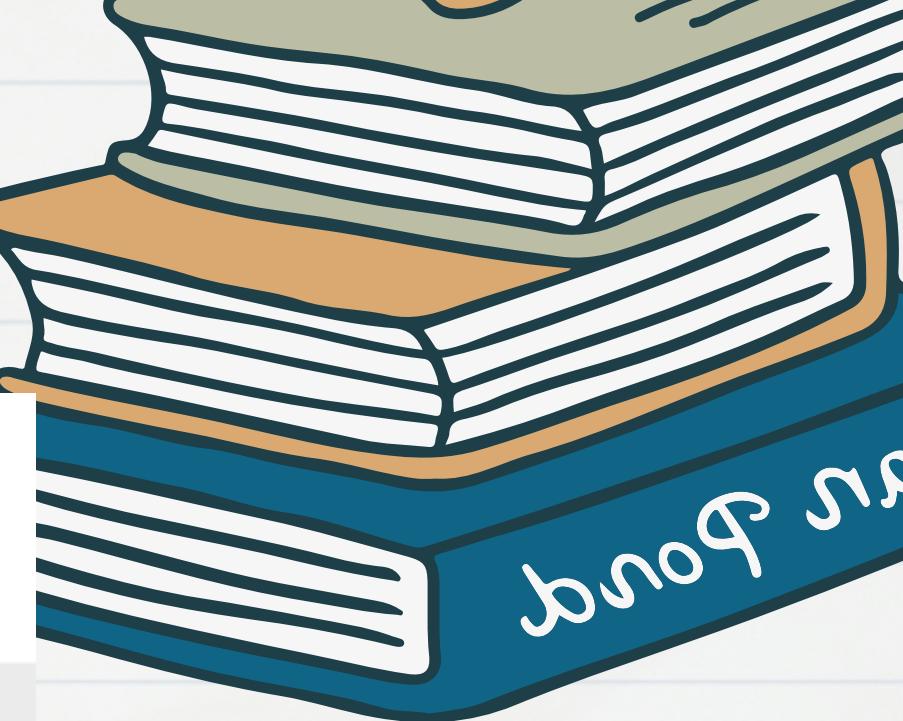
6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

```
170      #6)List the customer names who registered before 2022-01-01 and have not issued any book yet.  
171  
172 •     SELECT Customer_name FROM Customer WHERE Customer_Id NOT IN (SELECT Issued_cust FROM Issuestatus) AND Reg_date < '2022-01-01';  
173 •     SELECT Customer_name FROM Customer  
174     Customer LEFT JOIN IssueStatus ON Issued_cust = Customer_Id WHERE Reg_date <'2022-01-01';
```

<

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

Customer_name
Henry
Emily
Liam
Mia



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

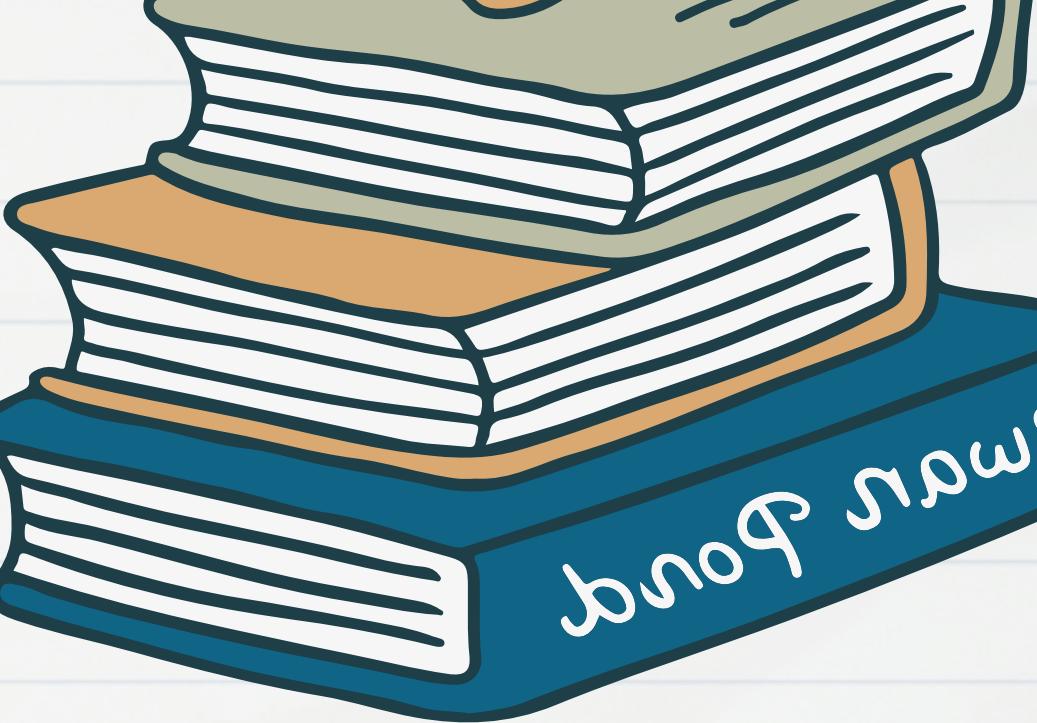
```
175  
176 #7)Display the branch numbers and the total count of employees in each branch.  
177  
178 • SELECT Branch_no, COUNT(*) AS 'Total employees' FROM Employee GROUP BY Branch_no;
```

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

	Branch_no	Total employees
▶	1	3
	2	2
	3	2
	4	2
	5	1



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



```
180      #8)Display the names of customers who have issued books in the month of June 2023.  
181  
182 •      SELECT DISTINCT Customer_name FROM IssueStatus I LEFT JOIN Customer c ON I.Issued_cust = c.Customer_Id WHERE I.Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
```

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

Customer_name
Henry
James
Sophia
Noah



9. Retrieve book_title from the Books table containing the word "history".

```
184      #9)Retrieve book_title from book table containing history.  
185  
186 •     SELECT Book_title FROM Books WHERE Book_title LIKE '%History%';
```

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

Book_title
History of Art



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



```
188      #10)Retrieve the branch numbers along with the count of employees for branches having more than 5 employees.  
189  
190 •     SELECT Branch_no,COUNT(*) AS 'Count of employees' FROM Employee GROUP BY Branch_no HAVING COUNT(*) >5;
```

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

Branch_no	Count of employees



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

```
192      #11)Retrieve the names of employees who manage branches and their respective branch addresses.  
193  
194 •      SELECT e.Emp_name, b.Branch_address FROM Employee e  
195      LEFT JOIN Branch b ON e.Branch_no = b.Branch_no  
196      WHERE e.position = 'Manager';
```

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

	Emp_name	Branch_address
▶	Alice	Library stuvert
	Charlie	Book Ave
	Eve	Novel road
	Isabella	Science Blvd



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

```
197  
198      #12)Display the names of customers who have issued books with a rental price higher than Rs. 25.  
199  
200 •      SELECT DISTINCT c.Customer_name FROM IssueStatus I  
201      LEFT JOIN Books b ON I.Isbn_book = b.ISBN  
202      LEFT JOIN Customer c ON I.Issued_cust = c.Customer_Id  
203      WHERE b.Rental_price >25;  
204
```

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

	Customer_name
▶	James
	Emily
	Oliver
	Sophia
	Liam
	Noah
	Ava



Thank's For
Watching

